

From Efficient Markets Theory to Behavioral Finance

Robert J. Shiller

Academic finance has evolved a long way from the days when the efficient markets theory was widely considered to be proved beyond doubt. Behavioral finance—that is, finance from a broader social science perspective including psychology and sociology—is now one of the most vital research programs, and it stands in sharp contradiction to much of efficient markets theory.

The efficient markets theory reached its height of dominance in academic circles around the 1970s. At that time, the rational expectations revolution in economic theory was in its first blush of enthusiasm, a fresh new idea that occupied the center of attention. The idea that speculative asset prices such as stock prices always incorporate the best information about fundamental values and that prices change only because of good, sensible information meshed very well with theoretical trends of the time. Prominent finance models of the 1970s related speculative asset prices to economic fundamentals, using rational expectations to tie together finance and the entire economy in one elegant theory. For example, Robert Merton published “An Intertemporal Capital Asset Pricing Model” in 1973, which showed how to generalize the capital asset pricing model to a comprehensive intertemporal general equilibrium model. Robert Lucas published “Asset Prices in an Exchange Economy” in 1978, which showed that in a rational expectations general equilibrium, rational asset prices may have a forecastable element that is related to the forecastability of consumption. Douglas Breeden published his theory of “consumption betas” in 1979, where a stock’s beta (which measures the sensitivity of its return compared to some index) was determined by the correlation

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of the stock's return with per capita consumption. These were exciting theoretical advances at the time. In 1973, the first edition of Burton Malkiel's acclaimed book, *A Random Walk Down Wall Street*, appeared, which conveyed this excitement to a wider audience.

In the decade of the 1970s, I was a graduate student writing a Ph.D. dissertation on rational expectations models and an assistant and associate professor, and I was mostly caught up in the excitement of the time. One could easily wish that these models were true descriptions of the world around us, for it would then be a wonderful advance for our profession. We would have powerful tools to study and to quantify the financial world around us.

Wishful thinking can dominate much of the work of a profession for a decade, but not indefinitely. The 1970s already saw the beginnings of some disquiet over these models and a tendency to push them somewhat aside in favor of a more eclectic way of thinking about financial markets and the economy. Browsing today again through finance journals from the 1970s, one sees some beginnings of reports of anomalies that didn't seem likely to square with the efficient markets theory, even if they were not presented as significant evidence against the theory. For example, Eugene Fama's 1970 article, "Efficient Capital Markets: A Review of Empirical Work," while highly enthusiastic in its conclusions for market efficiency, did report some anomalies like slight serial dependencies in stock market returns, though with the tone of pointing out how small the anomalies were.

The 1980s and Excess Volatility

From my perspective, the 1980s were a time of important academic discussion of the consistency of the efficient markets model for the aggregate stock market with econometric evidence about the time series properties of prices, dividends and earnings. Of particular concern was whether these stocks show excess volatility relative to what would be predicted by the efficient markets model.

The anomalies that had been discovered might be considered at worst small departures from the fundamental truth of market efficiency, but if most of the volatility in the stock market was unexplained, it would call into question the basic underpinnings of the entire efficient markets theory. The anomaly represented by the notion of excess volatility seems to be much more troubling for efficiency markets theory than some other financial anomalies, such as the January effect or the day-of-the-week effect.¹ The volatility anomaly is much deeper than those represented by price stickiness or *tatonnement* or even by exchange-rate overshooting. The evidence regarding excess volatility seems, to some observers at least, to imply that changes in prices occur for no fundamental reason at all, that they occur because of such things as "sunspots" or "animal spirits" or just mass psychology.

The efficient markets model can be stated as asserting that the price P_t of a

¹ A good discussion of the major anomalies, and the evidence for them, is in Siegel (2002).

share (or of a portfolio of shares representing an index) equals the mathematical expectation, conditional on all information available at the time, of the present value P_t^* of actual subsequent dividends accruing to that share (or portfolio of shares). P_t^* is not known at time t and has to be forecasted. Efficient markets say that price equals the optimal forecast of it.

Different forms of the efficient markets model differ in the choice of the discount rate in the present value, but the general efficient markets model can be written just as $P_t = E_t P_t^*$, where E_t refers to mathematical expectation conditional on public information available at time t . This equation asserts that any surprising movements in the stock market must have at their origin some new information about the fundamental value P_t^* .

It follows from the efficient markets model that $P_t^* = P_t + U_t$, where U_t is a forecast error. The forecast error U_t must be uncorrelated with any information variable available at time t , otherwise the forecast would not be optimal; it would not be taking into account all information. Since the price P_t itself is information at time t , P_t and U_t must be uncorrelated with each other. Since the variance of the sum of two uncorrelated variables is the sum of their variances, it follows that the variance of P_t^* must equal the variance of P_t plus the variance of U_t , and hence, since the variance of U_t cannot be negative, that the variance of P_t^* must be greater than or equal to that of P_t .

Thus, the fundamental principle of optimal forecasting is that the forecast must be less variable than the variable forecasted. Any forecaster whose forecast consistently varies through time more than the variable forecasted is making a serious error, because then high forecasts would themselves tend to indicate forecast positive errors, and low forecasts indicate negative errors. The maximum possible variance of the forecast is the variance of the variable forecasted, and this can occur only if the forecaster has perfect foresight and the forecasts correlate perfectly with the variable forecasted.

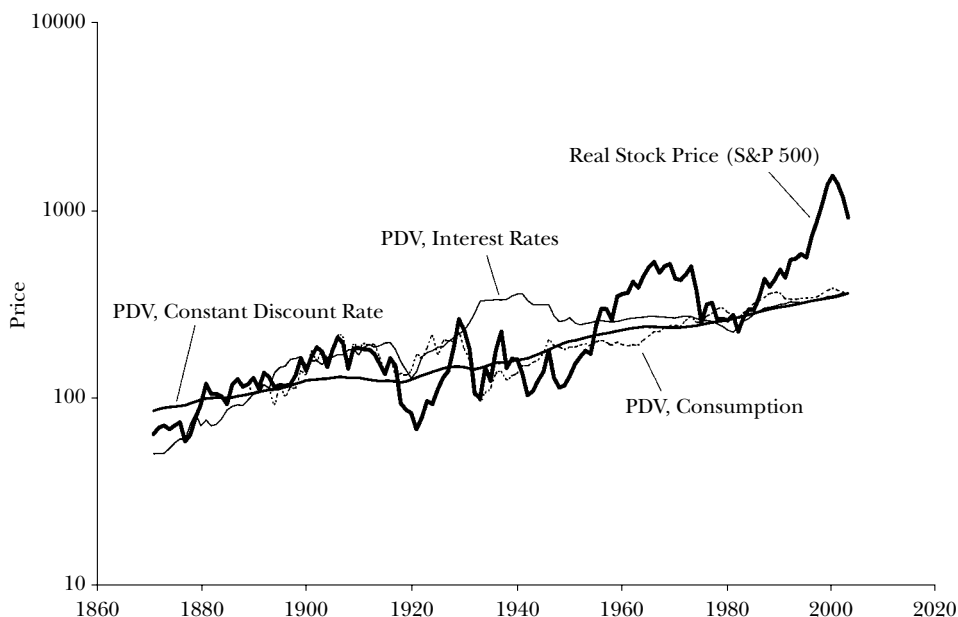
If one computes for each year since 1871 the present value subsequent to that year of the real dividends paid on the Standard & Poor's Composite Stock Price Index, discounted by a constant real discount rate equal to the geometric average real return 1871–2002 on the same Standard & Poor Index, one finds that the present value, if plotted through time, behaves remarkably like a stable trend.² In contrast, the Standard & Poor's Composite Stock Price Index gyrates wildly up and down around this trend. Figure 1 illustrates these patterns.

How, then, can we take it as received doctrine that, according to the simplest efficient markets theory, the stock price represents the optimal forecast of this present value, the price responding only to objective information about it? I argued in Shiller (1981), as did also Stephen LeRoy and Richard Porter (1981), that the stability of the present value through time suggests that there is excess volatility in

² The present value, constant discount rate, is computed for each year t as $p_{const,t}^* = \sum_{\tau=t+1}^{\infty} \rho^{(\tau-t)} D_{\tau}$, where ρ is a constant discount factor, and D_t is the real dividend at time t . An assumption was made about real dividends after 2002. See note to Figure 1.

Figure 1

Real Stock Prices and Present Values of Subsequent Real Dividends (annual data)



Notes: The heaviest line is the Standard & Poor 500 Index for January of year shown. The less-heavy line is the present value for each year of subsequent real dividends accruing to the index discounted by the geometric-average real return for the entire sample, 6.61 percent. Dividends after 2002 were assumed equal to the 2002 dividend times 1.25 (to correct for recent lower dividend payout) and growing at the geometric-average historical growth rate for dividends, 1.11 percent. The thin line is the present value for each year of subsequent real dividends discounted by one-year interest rates plus a risk premium equal to the geometric average real return on the market minus the geometric average real one-year interest rate. The dashed line is the present value for each year of subsequent real dividends discounted by marginal rates of substitution in consumption for a representative individual with a coefficient of relative risk aversion of 3 who consumes the real *per capita* nondurable and service consumption from the U. S. National Income and Product Accounts. Real values were computed from nominal values by dividing by the consumer price index (CPI-U since 1913, linked to the Warren and Pearson producer price index before 1913) and rescaling to January 2003 = 100. Some of the very latest observations of underlying series were estimated based on data available as of this writing; for example, the consumer price index for January 2003 was estimated based on data from previous months. Source data are available on (<http://www.econ.yale.edu/~shiller>), and the further descriptions of some of the data are in Shiller (1989). See also footnotes 1, 5 and 6.

the aggregate stock market, relative to the present value implied by the efficient markets model. Our work launched a remarkable amount of controversy, from which I will recall here just a few highlights.

The principal issue regarding our original work on excess volatility was in regard to thinking about the stationarity of dividends and stock prices. My own work in the early 1980s had followed a tradition in the finance literature of

assuming that dividends fluctuated around a known trend.³ However, one might also argue, as do Marsh and Merton (1986), that dividends need not stay close to a trend and that even if earnings followed a trend, share issuance or repurchase could make dividends depart from a trend indefinitely. In addition, if business managers use dividends to provide a smoothed flow of payouts from their businesses, then the stock prices might be expected to shift more rapidly than dividends. Marsh and Merton argued that such dividend smoothing could make stock prices unstationary in such a way that in finite samples prices appear more volatile than the present values.

Thus, the challenge became how to construct a test for expected volatility that modeled dividends and stock prices in a more general way. As such tests were developed, they tended to confirm the overall hypothesis that stock prices had more volatility than an efficient markets hypothesis could explain. For example, West (1988) derived an inequality that the variance of *innovations* (that is, surprises) in stock prices must be less than or equal to the variance of the *innovations* in the forecasted present value of dividends based on a subset of information available to the market. This inequality is quite general: it holds even when dividends and stock prices have infinite variances so long as the variance of the innovation (the unexpected change) in these is finite. Using long-term annual data on stock prices, West found that the variance of innovations in stock prices was four to 20 times its theoretical upper bound.⁴ John Campbell and I (1988) recast the time series model in terms of a cointegrated model of real prices and real dividends, while also relaxing other assumptions about the time series, and again found evidence of excess volatility.⁵ Campbell (1991) provided a variance decomposition for stock returns that indicated that most of the variability of the aggregate stock market conveyed information about future returns, rather than about future dividends.

Another contested issue regarding the early work on excess volatility questioned the assumption of the early work that the efficient markets model was best conveyed through an expected present value model in which the real discount rate is constant through time. The assumption of a constant discount rate over time can only be considered a first step, for the theory suggests more complex relationships.

³ It should be pointed out that dividend payouts as a fraction of earnings have shown a gradual downtrend over the period since 1871 and that dividend payouts have increasingly been substituted by share repurchases. Net share repurchases reached approximately 1 percent of shares outstanding by the late 1990s. However, share repurchases do not invalidate the theoretical model that stock prices should equal the present value of dividends. See Cole, Helwege and Laster (1996).

⁴ In more technical terms, this argument is over whether dividends could be viewed as a stationary series. The discussion was often phrased in terms of the “unit root” property of the time series, where a unit root refers to notion that when a variable is regressed on its own lags, the characteristic equation of the difference equation has a root on the unit circle. West (1988) can be viewed as a way of addressing the unit root issue. In our 1988 paper, Campbell and I handled nonstationarity by using a vector autoregressive model including the log dividend-price ratio and the change in log dividends as elements.

⁵ Barsky and De Long (1993), however, later showed that if one assumes that real dividends must be *twice* differenced to induce stationarity (so that dividends are even more unstationary in the sense that dividend *growth rates*, not just levels, are unstationary), then the efficient markets model looks rather more consistent with the data.

One such efficient markets model makes the discount rate correspond to interest rates. The line in Figure 1 labeled “PDV, Interest Rates” illustrates this concept.⁶ However, allowing time-varying interest rates in the present value formula does little to support the efficient markets model. The actual price is still more volatile than the present value, especially for the latest half century. Moreover, what changes through time there are in the present value bear little resemblance to the changes through time in the stock prices. Note for example that the present value is extremely high throughout the depression years of the 1930s, not low as was the actual stock market. The present value is high then because real interest rates were at extreme lows after 1933, into the early 1950s, and since real dividends really did not fall much after 1929. After 1929, real Standard & Poor’s dividends fell to around 1925 levels for just a few years, 1933–1935 and 1938, but, contrary to popular impressions, were generally higher in the 1930s than they were in the 1920s.⁷

An alternative approach to the possibility of varying real discount rates looks at the intertemporal marginal rate of substitution for consumption, which is shown in Figure 1 with the line labeled “PDV, Consumption.”⁸ The models of efficient financial markets from the 1970s like Merton (1973), Lucas (1978) and Breeden (1979) concluded that stock prices are the expected present value of future dividends discounted using marginal rates of substitution of consumption, and in these models the equations for stock returns were derived in the context of a model maximizing the utility of consumption. Grossman and Shiller (1981) produced a plot of that present value since 1881, using Standard & Poor dividend data and using aggregate consumption data to compute the marginal rates of substitution as discount factors, and this plot is updated here, and this is what is shown in Figure 1. We

⁶ The present value, discounted by interest rates, is a plot for each year t of

$$P_{r,t}^* = \sum_{\tau=t}^{2002} \prod_{j=0}^{\tau} 1/(1 + r_{t+j} + \phi) D_{\tau} + \prod_{j=t}^{2002} 1/(1 + r_{t+j} + \phi) P_{const,2003}^*$$

See note to Figure 1.

⁷ Campbell and I (1989) recast the argument in terms of a vector autoregressive model of real stock prices, real interest rates and real dividends, in which each of these variables was regressed on lags of itself and lags of the other variables. We found that the dividend-price ratio not only shows excess volatility, but shows very little correlation with the dividend divided by the forecast of the present value of future dividends.

⁸ The present value, consumption discounted, is a plot for each year t of

$$P_{c,t}^* = \sum_{\tau=t+1}^{2002} (C_t/C_{\tau})^3 D_{\tau} + (C_t/C_{2003})^3 P_{const,2003}^*$$

where C_t is real *per capita* real consumption at time t . This expression is inspired by Lucas (1978) and derived in Grossman and Shiller (1981) assuming a coefficient of relative risk aversion of 3. See note to Figure 1.

found, as can also be seen here in Figure 1, that the present value of dividends as discounted in this model had only a tenuous relation to actual stock prices, and did not appear volatile enough to justify the price movements unless we pushed the coefficient of relative risk aversion to ridiculously high levels, higher than the value of three that was used for the plot.

Grossman and Shiller (1981) stressed that there were some similarities between the present value and the actual real price, notably the present value peaks in 1929 and bottoms out in 1933, close to the actual peak and trough of the market. But the present value does this because consumption peaked in 1929 and then dropped very sharply, bottoming out in 1933, and the present value takes account of this, as if people had perfect foresight of the coming depression. But in fact it appears very unlikely that people saw this outcome in 1929, and if they did not, then the efficient model does not predict that the actual real price should have tracked the present value over this period.

Actually, the consumption discount model, while it may show some comovements at times with actual stock prices, does not work well because it does not justify the volatility of stock prices. I showed (1982) that the theoretical model implies a lower bound on the volatility of the marginal rate of substitution, a bound which is with the U.S. data much higher than could be observed unless risk aversion were implausibly high. Hansen and Jagannathan later generalized this lower bound and elaborated on its implications, and today the apparent violation of this “Hansen-Jagannathan lower bound” is regarded as an important anomaly in finance.⁹

Some very recent research has emphasized that, even though the aggregate stock market appears to be wildly inefficient, individual stock prices do show some correspondence to efficient markets theory. That is, while the present value model for the aggregate stock market seems unsupported by the data, there is some evidence that *cross-sectional* variations in stock prices relative to accounting measures show some relation to the present value model. Paul Samuelson some years ago posited that the stock market is “micro efficient but macro inefficient,” since there is considerable predictable variation across firms in their predictable future paths of dividends but little predictable variation in aggregate dividends. Hence, Samuelson asserted, movements among individual stocks make more sense than do movements in the market as a whole. There is now evidence to back up this assertion.

Vuolteenaho (2002) showed, using vector-autoregressive methods, that the ratio of book-to-market-value of U.S. firms explains a substantial fraction of changes in future firms’ earnings. Cohen, Polk and Vuolteenaho (2002) concluded that 75 to 80 percent of the variation across firms in their book-to-market ratios can be explained in terms of future variation in profits. Jung and Shiller (2002) show that, cross-sectionally, for U.S. stocks that have been continually traded since 1926, the price-dividend ratio is a strong forecaster of the present value of future dividend

⁹ See, for example, John Cochrane’s (2001) book *Asset Pricing*, which surveys this literature. Much of the older literature is summarized in my 1989 book *Market Volatility*.

changes. So, dividend-price ratios on individual stocks do serve as forecasts of long-term future changes in their future dividends, as efficient markets assert.

This does not mean that there are not substantial bubbles in individual stock prices, but that the predictable variation across firms in dividends has often been so large as to largely swamp out the effect of the bubbles. A lot of this predictable variation across firms takes the form of firms' paying zero dividends for many years and investors correctly perceiving that eventually dividends will be coming, and of firms in very bad shape with investors correctly perceiving they will not be paying substantial dividends much longer. When it comes to individual stocks, such predictable variations, and their effects on price, are often far larger than the bubble component of stock prices.

There is a clear sense that the level of volatility of the overall stock market cannot be well explained with any variant of the efficient markets model in which stock prices are formed by looking at the present discounted value of future returns. There are many ways to tinker with the discount rates in the present value formulas, and someday someone may find some definition of discount rates that produces a present value series that "fits" the actual price better than any of the series shown in Figure 1.¹⁰ But it is unlikely that they will do so convincingly, given the failure of our efforts to date to capture the volatility of stock prices. To justify the volatility in terms of such changes in the discount rates, one will have to argue that investors also had a great deal of information about changes in the factors influencing these future discount rates.

After all the efforts to defend the efficient markets theory, there is still every reason to think that, while markets are not totally crazy, they contain quite substantial noise, so substantial that it dominates the movements in the aggregate market. The efficient markets model, for the aggregate stock market, has still never been supported by any study effectively linking stock market fluctuations with subsequent fundamentals. By the end of the 1980s, the restless minds of many academic researchers had turned to other theories.

The Blossoming of Behavioral Finance

In the 1990s, a lot of the focus of academic discussion shifted away from these econometric analyses of time series on prices, dividends and earnings toward developing models of human psychology as it relates to financial markets. The field of behavioral finance developed. Researchers had seen too many anomalies, too

¹⁰ Other factors are considered by McGrattan and Prescott (2001), who emphasize tax rate changes, and Siegel (2002), who considers not only tax rate changes but also changes in the volatility of the economy, changes in the inflation rate, and changes in transactions costs. Neither of these studies shows a "fit" between present value and prices over the long sample, however. Notably, the factors they use do not go through sudden changes at the time of the stock market booms and crashes surrounding 1929 and 2000.

little inspiration that our theoretical models captured important fluctuations. An extensive body of empirical work, summarized in Campbell, Lo and MacKinlay's 1996 book *The Econometrics of Financial Markets*, laid the foundation for a revolution in finance.

Richard Thaler and I started our National Bureau of Economic Research conference series on behavioral finance in 1991, extending workshops that Thaler had organized at the Russell Sage Foundation a few years earlier.¹¹ Many other workshops and seminars on behavioral finance followed. There is so much going on in the field that it is impossible to summarize in a short space. Here, I will illustrate the progress of behavioral finance with two salient examples from recent research: feedback models and obstacles to smart money. For overall surveys of the field of behavioral finance, the interested reader might begin with Hersh Shefrin's *Beyond Greed and Fear: Understanding Behavioral Finance and the Psychology of Investing* (2000) or Andrei Shleifer's *Inefficient Markets* (2000). There are also some new books of collected papers in behavioral finance, including a three-volume set, *Behavioral Finance*, edited by Hersh Shefrin (2001), and *Advances in Behavioral Finance II*, edited by Richard H. Thaler (2003).

Feedback Models

One of the oldest theories about financial markets, expressed long ago in newspapers and magazines rather than scholarly journals, is, if translated into academic words, a price-to-price feedback theory. When speculative prices go up, creating successes for some investors, this may attract public attention, promote word-of-mouth enthusiasm, and heighten expectations for further price increases. The talk attracts attention to "new era" theories and "popular models" that justify the price increases.¹² This process in turn increases investor demand and thus generates another round of price increases. If the feedback is not interrupted, it may produce after many rounds a speculative "bubble," in which high expectations for further price increases support very high current prices. The high prices are ultimately not sustainable, since they are high only because of expectations of further price increases, and so the bubble eventually bursts, and prices come falling down. The feedback that propelled the bubble carries the seeds of its own destruction, and so the end of the bubble may be unrelated to news stories about fundamentals. The same feedback may also produce a negative bubble, downward price movements propelling further downward price movements, promoting word-of-mouth pessimism, until the market reaches an unsustainably low level.

Such a feedback theory is very old. As long ago as 1841, Charles MacKay in his

¹¹ For a list of our programs since 1991, with links to authors' websites, see (<http://cowles.econ.yale.edu/behfin>).

¹² Descriptions of new era theories attending various speculative bubbles are described in my book (2000). Popular models that accompanied the stock market crash of 1987, the real estate bubbles peaking around 1990 and various initial public offering booms are discussed in my paper in this journal (1990).

influential book *Memoirs of Extraordinary Popular Delusions* described the famous tulipmania in Holland in the 1630s, a speculative bubble in tulip flower bulbs, with words that suggest feedback and the ultimate results of the feedback (pp. 118–119):

Many individuals grew suddenly rich. A golden bait hung temptingly out before the people, and one after another, they rushed to the tulip marts, like flies around a honey-pot At last, however, the more prudent began to see that this folly could not last forever. Rich people no longer bought the flowers to keep them in their gardens, but to sell them again at cent per cent profit. It was seen that somebody must lose fearfully in the end. As this conviction spread, prices fell, and never rose again.¹³

The feedback theory seems to be even much older than this. Note of such feedback, and the role of word-of-mouth communications in promoting it, was in fact made at the time of the tulipmania itself. One anonymous observer publishing in 1637 (the year of the peak of the tulipmania) gives a fictional account of a conversation between two people, Gaergoedt and Waermond, that illustrates this author's impression of the word-of-mouth communications of that time:

Gaergoedt: "You can hardly make a return of 10% with the money that you invest in your occupation [as a weaver], but with the tulip trade, you can make returns of 10%, 100%, yes, even 1000%.

Waermond: ". . . . But tell me, should I believe you?"

Gaergoedt: "I will tell you again, what I just said."

Waermond: "But I fear that, since I would only start now, it's too late, because now the tulips are very expensive, and I fear that I'll be hit with the spit rod, before tasting the roast."

Gaergoedt: "It's never too late to make a profit, you make money while sleeping. I've been away from home for four or five days, and I came home just last night, but now I know that the tulips I have have increased in value by three or four thousand guilder; where do you have profits like that from other goods?"

Waermond: "I am perplexed when I hear you talking like that, I don't know what to do; has anybody become rich with this trade?"

Gaergoedt: "What kind of question is this? Look at all the gardeners that used to wear white-gray outfits, and now they're wearing new clothes. Many weavers, that used to wear patched up clothes, that they had a hard time putting

¹³ Garber questions MacKay's facts about the tulipmania in his 1990 article in this journal and in his book *Famous First Bubbles*. For example, the crash was not absolutely final; Garber documents very high tulip prices in 1643. The actual course of the bubble is ambiguous, as all contracts were suspended by the states of Holland in 1637 just after the peak, and no price data are available from that date.

on, now wear the glitteriest clothes. Yes, many who trade in tulips are riding a horse, have a carriage or a wagon, and during winter, an ice carriage, . . .”¹⁴

Casual observations over the years since then are plentiful evidence that such talk, provoking a sense of relative futility of one’s day-to-day work and envy of the financial successes of others, and including some vacuous answer to doubts that the price rise may be over, is effective in overcoming rational doubts among some substantial number of people and tends to bring successive rounds of them into the market.

In my book *Irrational Exuberance*, published (with some luck) at the very peak of the stock market bubble in March 2000, I argued that very much the same feedback, transmitted by word-of-mouth as well as the media, was at work in producing the bubble we were seeing then. I further argued that the natural self-limiting behavior of bubbles, and the possibility of downward feedback after the bubble was over, suggested a dangerous outlook for stocks in the future.

One might well also presume that such simple feedback, if it operates so dramatically in events like the tulip bubble or the stock market boom until 2000, ought often to recur at a smaller scale and to play an important if lesser role in more normal day-to-day movements in speculative prices. Feedback models, in the form of difference equations, can of course produce complicated dynamics. The feedback may be an essential source of much of the apparently inexplicable “randomness” that we see in financial market prices.

But the feedback theory is very hard to find expressed in finance or economics textbooks, even today. Since the theory has appeared mostly in popular discourse, and not in the textbooks, one might well infer that it has long been discredited by solid academic research. In fact, academic research has until recently hardly addressed the feedback model.

The presence of such feedback is supported by some experimental evidence. Psychologists Andreassen and Kraus (1988) found that when people are shown real historical stock prices in sequence (and which they knew were real stock prices) and invited to trade in a simulated market that displays these prices, they tended to behave as if they extrapolate past price changes when the prices appear to exhibit a trend relative to period-to-period variability. Smith, Suchanek and Williams (1988) were able to create experimental markets that generated bubbles that are consistent with feedback trading. Marimon, Spear and Sunder (1993) showed experiments in which repeating bubbles were generated if subjects were preconditioned by past experience to form expectations of bubbles.

The presence of such feedback is also supported by research in cognitive psychology, which shows that human judgments of the probability of future events show systematic biases. For example, psychologists Tversky and Kahneman have shown that judgments tend to be made using a representativeness heuristic,

¹⁴ Anonymous (1637). Bjorn Tuypens translated this passage.

whereby people try to predict by seeking the closest match to past patterns, without attention to the observed probability of matching the pattern. For example, when asked to guess the occupations of people whose personality and interests are described to them, subjects tended to guess the occupation that seemed to match the description as closely as possible, without regard to the rarity of the occupation. Rational subjects would have chosen humdrum and unexceptional occupations more because more people are in these occupations. (Kahneman and Tversky, 1974). By the same principle, people may tend to match stock price patterns into salient categories such as dramatic and persistent price trends, thus leading to feedback dynamics, even if these categories may be rarely seen in fundamental underlying factors.

Daniel, Hirshleifer and Subramanyam (1999) have shown that the psychological principle of “biased self-attribution” can also promote feedback. Biased self-attribution, identified by psychologist Daryl Bem (1965), is a pattern of human behavior whereby individuals attribute events that confirm the validity of their actions to their own high ability and attribute events that disconfirm their actions to bad luck or sabotage. Upon reading the above passage from the time of the tulipmania, one easily imagines that Gaergoedt is basking in self-esteem and relishing the telling of the story. Many readers today can probably easily recall similar conversations, and similar ego-involvement by the spreaders of the word, in the 1990s. Such human interactions, the essential cause of speculative bubbles, appear to recur across centuries and across countries: they reflect fundamental parameters of human behavior.

There is also evidence supportive of feedback from natural experiments, which may be more convincing than the lab experiments when they occur in real time, with real money, with real social networks and associated interpersonal support and emotions, with real and visceral envy of friends’ investment successes, and with communications-media presence. Ponzi schemes may be thought of as representing such natural experiments. A Ponzi scheme (or pyramid scheme or money circulation scheme) involves a superficially plausible but unverifiable story about how money is made for investors and the fraudulent creation of high returns for initial investors by giving them the money invested by subsequent investors. Initial investor response to the scheme tends to be weak, but as the rounds of high returns generates excitement, the story becomes increasingly believable and enticing to investors. These schemes are often very successful in generating extraordinary enthusiasms among some investors. We have seen some spectacular Ponzi schemes recently in countries that do not have effective regulation and surveillance to prevent them. A number of Ponzi schemes in Albania 1996–1997 were so large that total liabilities reached half a year’s GDP; their collapse brought on a period of anarchy and civil war in which 2000 people were killed (Jarvis, 1999). Real world stock-market speculative bubbles, I argued in my 2000 book *Irrational Exuberance*, resemble Ponzi schemes in the sense that some “new era” story becomes attached to the bubble and acquires increasing plausibility and investor enthusiasm as the market continues to achieve high returns. Given the obvious success of Ponzi

schemes when they are not stopped by the law, we would need a good reason to think that analogous phenomena of speculative bubbles are not also likely.

The stock market boom that ended in early 2000 is another relevant episode. According to my survey data, now expressed in the form of stock market confidence indexes produced by the Yale School of Management and available at (<http://icf.som.yale.edu/confidence.index>), the confidence of individual investors that the stock market will go up in the next year, and will rebound from any drop, rose dramatically 1989–2000. As in the tulipmania centuries before, there was a focusing of public attention and talk on the speculative market and a proliferation of wishful-thinking theories about a “new era” that would propel the stock market on a course that, while uneven, is relentlessly upward, theories that were spread by word of mouth as well as the media.

It is widely thought that there is a problem with the feedback theories: the theories would seem to imply that speculative price changes are strongly serially correlated through time, that prices show strong momentum, continuing uniformly in one direction day after day. This seems inconsistent with the evidence that stock prices are approximately a random walk.

But simple feedback models do not imply strong serial correlation, as I stressed in Shiller (1990). There, I presented a model of the demand for a speculative asset as equaling a *distributed lag* with exponentially declining weights on past price changes through time (the distributed lag representing feedback distributed over time), plus other factors that affect demand. The model asserts that people react gradually to price changes over months or years, not just to yesterday’s price change. A history of price increases over the last year may encourage buying today even if yesterday’s price change was down. Also, the model recognizes that there are other shocks, besides feedback, influencing price.

In such a model, a disturbance in some demand factor other than feedback can in certain cases be amplified, at least for a time, because it changes the price and thus affects future prices through the distributed lag.¹⁵ However, unless we know something about the other factors that drive demand, such a distributed lag model does not imply anything at all about the serial correlation properties of speculative price changes. The feedback model does not imply that there is much serial correlation in day-to-day stock price changes, since the noise in the other factors feeds directly into short-run changes, and the effect on today’s price of lagged other factors operates at a low frequency that is essentially unrelated to day-to-day changes and has effects that can be observed only from its cumulative effect after a long period of time.

Thus, the approximate random walk character of stock prices is not evidence

¹⁵ The feedback model is $p_t = c \int_{-\infty}^t e^{-\gamma(t-\tau)} dp_\tau + \pi_t$, $0 < c < 1$, $0 < \gamma$. Here, p_t is price at time t , and π_t is the combined effect of other factors on demand. It follows that $p_t = \pi_t + (c/(1-c))(\pi_t - \bar{\pi}_t)$, where $\bar{\pi}_t = (\gamma/(1-c)) \int_{-\infty}^t e^{-(\gamma/(1-c))(t-\tau)} \pi_\tau d\tau$ is a weighted average of lagged π . See Shiller (1990, p. 60). Such a model does not imply that price behaves smoothly through time: price can look much like a random walk if, for example, π_t is a random walk.

against feedback. Moreover, even if feedback did imply some momentum, we can also note that the random walk character of stock prices is really not fully supported by the evidence anyway, and that in fact there has been more than a little momentum to stock prices. Jegadeesh and Titman (1993) found that winning stocks, stocks that showed exceptionally high six-month returns, beat losing stocks, stocks that showed exceptionally low six-month returns, by 12 percent over the following year. In contrast, over longer periods of time this momentum seems to reverse itself. De Bondt and Thaler (1985) find that over the period 1926 to 1982, stocks represented on the Center for Research in Security Prices data set of the University of Chicago whose returns had been in the top decile across firms over three years (thus, “winner” stocks) tended to show negative cumulative returns in the succeeding three years. They also found that “loser” stocks whose returns had been in the bottom decile over the prior three years tended to show positive returns over the succeeding three years. Thus, there is a tendency for stock prices to continue in the same direction over intervals of six months to a year, but to reverse themselves over longer intervals. Campbell, Lo and Mackinlay (1996) document this fact carefully.¹⁶ A pattern like this is certainly consistent with some combination of feedback effects and other demand factors driving the stock market largely independently of fundamentals.

Smart Money vs. Ordinary Investors

Theoretical models of efficient financial markets that represent everyone as rational optimizers can be no more than metaphors for the world around us. Nothing could be more absurd than to claim that *everyone* knows how to solve complex stochastic optimization models. For these theoretical models to have any relevance to the stock market, it must somehow be the case that a smaller element of “smart money” or the “marginal trader” can offset the foolishness of many investors and make the markets efficient.

The efficient markets theory, as it is commonly expressed, asserts that when irrational optimists buy a stock, smart money sells, and when irrational pessimists sell a stock, smart money buys, thereby eliminating the effect of the irrational traders on market price. But finance theory does not necessarily imply that smart money succeeds in fully offsetting the impact of ordinary investors. In recent years, research in behavioral finance has shed some important light on the implications of the presence of these two classes of investors for theory and also on some characteristics of the people in the two classes.

From a theoretical point of view, it is far from clear that smart money has the power to drive market prices to fundamental values. For example, in one model with both feedback traders and smart money, the smart money tended to *amplify*, rather than diminish, the effect of feedback traders, by buying in ahead of the

¹⁶ Grinblatt and Han (2001) have argued that this tendency of stock prices to show momentum for a while and then reverse themselves might be related to the phenomenon that investors tend to hold on to losers and sell winners (Statman and Shefrin, 1985; Odean, 1998).

feedback traders in anticipation of the price increases they will cause (De Long, Shleifer, Summers and Waldman, 1990b). In a related model, rational, expected-utility-maximizing smart money never chooses to offset all of the effects of irrational investors because they are rationally concerned about the risk generated by the irrational investors and do not want to assume the risk that their completely offsetting these other investors would entail (De Long, Shleifer, Summers and Waldman, 1990b).¹⁷

Often, speculative bubbles appear to be common to investments of a certain “style,” and the bubbles may not include many other investments. For example, the stock market bubble that peaked in the year 2000 was strongest in tech stocks or Nasdaq stocks. Barberis and Shleifer (2002) present a model in which feedback traders’ demand for investments within a particular style is related to a distributed lag on past returns of that style class. By their budget constraint, when feedback traders are enticed by one style, they must move out of competing styles. The smart money are rational utility maximizers. Barberis and Shleifer present a numerical implementation of their model and find that smart money did not fully offset the effects of the feedback traders. Style classes go through periods of boom and bust amplified by the feedback.

Goetzmann and Massa (1999) provided some direct evidence that it is reasonable to suppose that there are two distinct classes of investors: feedback traders who follow trends and the smart money who move the other way. Fidelity Investments provided them with two years of daily account information for 91,000 investors in a Standard and Poor’s 500 index fund. Goetzmann and Massa were able to sort these investors into two groups based on how they react to daily price changes. There were both momentum investors, who habitually bought more after prices were rising, and contrarian investors, or smart money, who habitually sold after prices were rising. Individual investors tended to stay as one or the other, rarely shifted between the two categories.

Recent research has focused on an important obstacle to smart money’s offsetting the effects of irrational investors. The smart money can always buy the stock, but if the smart money no longer owns the stock and finds it difficult to short the stock, then the smart money may be unable to sell the stock. Some stocks could be in a situation where zealots have bought into a stock so much that only zealots own shares, and trade is only among zealots, and so the zealots alone determine the price of the stock. The smart money who know that the stock is priced ridiculously high may well use up all the easily available shortable shares and then will be standing on the sidelines, unable to short more shares and profit from their knowledge. Miller (1977) pointed out this flaw in the argument for market efficiency, and his paper has been discussed ever since.

It seems incontrovertible that in some cases stocks have been held primarily by zealots and that short sellers have found it very difficult to short. One example is the

¹⁷ Shleifer and Summers (1990) present a nice summary of these themes in this journal.

3Com sale of Palm near the peak of the stock market bubble (Lamont and Thaler, 2001). In March 2000, 3Com, a profitable provider of network systems and services, sold to the general public via an initial public offering 5 percent of its subsidiary Palm, a maker of handheld computers. 3Com announced at the same time that the rest of Palm would follow later. The price that these first Palm shares obtained in the market was so high, when compared with the price of the 3Com shares, that if one subtracts the implied value of the remaining 95 percent of Palm from the 3Com market value, one finds that the non-Palm part of 3Com had a *negative* value. Since the worst possible price for 3Com after the Palm sale was completed would be zero, there was thus a strong incentive for investors to short Palm and buy 3Com. But, the interest cost of borrowing Palm shares reached 35 percent by July 2000, putting a damper on the advantage to exploiting the mispricing.¹⁸ Even an investor who knew for certain that the Palm shares would fall substantially may have been unable to make a profit from this knowledge. The zealots had won with Palm and had control over its price, for the time being.

The Palm example is an unusual anomaly. Shorting stocks only rarely becomes so costly. But the example proves the principle. The question is: How important are obstacles to smart money's selling in causing stocks to deviate from fundamental value?

Of course, in reality, the distinction between zealots and smart money is not always sharp. Instead, there are sometimes all gradations in between, especially since the objective evidence about the fundamental value of individual stocks is always somewhat ambiguous. If selling short is difficult, a number of individual stocks could become overpriced. It would also appear possible that major segments of the stock market, say the Nasdaq in 1999, or even the entire stock market, could wind up owned by, if not zealots, at least relatively optimistic people. Short-sale constraints could be a fatal flaw in the basic efficient markets theory.

The problem with evaluating Miller's (1977) theory that a lack of short selling can cause financial anomalies like overpricing and bubbles is that there has been little or no data on which stocks are difficult to short. There are long time series data series on "short interest," which is the total number of shares that are shorted. Figlewski (1981) found that high levels of short interest for individual stocks predicts low subsequent returns for them, a direction that would be predicted by Miller's theory. But the predictability was weak. On the other hand, differences in short interest across stocks do not have an unambiguous connection with difficulty of shorting. Stocks differ from each other in terms of the fraction of shares that are in accounts that are shortable. Differences across stocks in short interest can also reflect different demand for shorting for hedging needs. Thus, there is a significant

¹⁸ Put option prices on Palm also began to reflect the negative opinions and became so expensive that the usual relation between options prices and stock price, the so-called "put-call parity," failed to hold. One must remember that options markets are derivative markets that clear separately from stock markets, and overpriced puts have no direct impact on the supply and demand for stock unless arbitrageurs can exploit the overpricing by shorting the stock.

errors-in-variables problem when using short interest as an indicator of the cost of shorting.

Some recent papers have sought to detect the presence of barriers that might limit short sales indirectly by observing the differences of opinion that can have an impact on price if there is a difficulty shorting stocks. Without observing barriers to shorting stocks directly, we can still infer that when differences of opinion are high about a stock, it is more likely that short-sale restrictions will be binding for that stock, and thus that the more pessimistic investors will not prevent the stock from becoming overpriced and hence subject to lower subsequent returns.

Scherbina (2000) measured differences of opinion by calculating the dispersion of analysts' earnings forecasts. She found that stocks with a high dispersion of analysts' forecasts had lower subsequent returns, and she linked the low returns to the resolution of the uncertainty. Chen, Hong and Stein (2000) measured difference of opinion by a breadth of ownership measure derived from a database on mutual fund portfolios. The breadth variable for each quarter is the ratio of the number of mutual funds that hold a long position in the stock to the total number of mutual funds for that quarter. They find that firms in the top decile by breadth of ownership outperformed those in the bottom decile by 4.95 percent per annum after adjusting for various other factors.

What we would really like to have to test the importance of short sales restrictions on stock pricing is some evidence on the cost of shorting. If those stocks that have become very costly to short tend to have poor subsequent returns, then we will have more direct confirmation of Miller's (1977) theory. There is surprisingly little available information about the cost of shorting individual stocks. Such data have not been available for economic research until recently. A number of recent unpublished papers have assembled data on the cost of shorting individual stocks, but these papers have assembled data for no more than a year around 2000.

Recently, Jones and Lamont (2001) discovered an old source of data on the cost of shorting stocks. In the 1920s and 1930s in the United States, there used to be a "loan crowd" on the floor of the New York Stock Exchange, where one could lend or borrow shares, and the interest rates at which shares were loaned were reported in the *Wall Street Journal*. Jones and Lamont assembled time series of the interest rates charged on loans of stocks from 1926 to 1933, eight years of data on an average of 80 actively-traded stocks. They found that, after controlling for size, over this period the stocks that were more expensive to short tended to be more highly priced (in terms of market-to-book ratios), consistent with the Miller (1977) theory. Moreover, they found that the more expensive-to-short stocks had lower subsequent returns on average, again consistent with the Miller theory. Of course, their data span only eight years from a remote period in history, and so their relevance to today's markets might be questioned.

Why has there not been more data on the cost of shorting? Why did the loan crowd on the New York Stock Exchange disappear and the loan rates in the *Wall Street Journal* with it? Perhaps after the crash of 1929 the widespread hostility to short sellers (who were widely held responsible for the crash) forced the market to go

underground. Jones and Lamont (2001) document a consistent pattern of political opposition to short sellers after 1929 and point out that J. Edgar Hoover, the head of the Federal Bureau of Investigation, was quoted as saying that he would investigate a conspiracy to keep stock prices low. By 1933, the rates shown on the loan list become all zeros, and the *Wall Street Journal* stopped publishing the loan list in 1934.

Fortunately, this long drought of data on the cost of shorting stocks may be over, and stocks should become easier to short. In 2002, a consortium of financial institutions established an electronic market for borrowing and lending stocks online via a new firm, EquiLend, LLC. The new securities lending platform at <http://www.equilend.com> exceeded \$11 billion in transactions in its first two weeks, and daily availability posting exceed \$1 trillion.

But the true cost of shorting stocks is probably much higher than the explicit interest cost of borrowing the shares, because of the psychological cost that inhibits short selling. Most investors, even some very smart investors, have probably never even considered shorting shares. Shorting shares is widely reputed to involve some substantial risks and nuisances. For example, the short-seller always stands the risk that the ultimate owner of the shares will want to sell the shares, at which time the short-seller is forced to return the shares. This detail may be little more than a nuisance, for the short seller can likely borrow them again from another lender, but it may figure largely in potential short-sellers' minds.

A more important consideration that may weigh on short sellers' minds is the unlimited loss potential that short sales entail. When an investor buys a stock, the potential loss is no greater than the original investment. But when an investor shorts a stock, the potential losses can greatly exceed the original investment. An investor can always terminate these losses by covering the shorts, but this action typically brings considerable psychological anguish. Deciding to cover one's shorts and get out of a short position after losses is psychologically difficult, given the evidence on the pain of regret. Kahneman and Tversky's prospect theory (1979) suggests that individuals are far more upset by losses than they are pleased by equivalent gains; in fact, individuals are so upset by losses that they will even take great risks with the hope of avoiding any losses at all. The effects of this pain of regret have been shown to result in a tendency of investors in stocks to avoid selling losers, but the same pain of regret ought to cause short sellers to want to avoid covering their shorts in a losing situation. People prefer to avoid putting themselves in situations that might confront them with psychologically difficult decisions in the future.

The stock market that we have today always limits the liability of investors. As Moss (2002) has documented, the idea that all publicly traded stocks should have limited liability for their investors was the result of experimenting with different kinds of stockholder liability in the United States in the early nineteenth century and the discovery of the psychological attractiveness of limited liability stocks. The debates in the early nineteenth century were concerned with the balancing of the agency costs of limited liability, which encourages businesses to take greater risks,

against the benefits in terms of peace of mind to investors. Various alternatives were considered or experimented with, including unlimited liability, unlimited proportional liability (where individual investors in a company are limited to their proportionate share of the company's losses according to their share in the company), and double liability (where individual investors are accountable for the capital subscribed once again). By around 1830, it was apparent from experiments in New York and surrounding states that investors found it very appealing that they could put money down to buy a stock today, and from that day forward face no further losses beyond what they already put down. It allowed them, once having purchased a stock, to concentrate their emotions on the small probability of the stock doing extremely well, rather on the small probability that someone would come after them for more money. People have always been very attracted to lottery tickets, and the invention of limited liability, Moss concludes, turned stock investments psychologically into something a lot like lottery tickets. By the same theory, then, investors will not find shorting stocks very attractive.

Remarkably few shares are in fact sold short. According to New York Stock Exchange data, from 1977 to 2000 year-end short interest ranged from 0.14 percent to 1.91 percent of all shares. According to Dechow, Hutton, Muelbroek and Stone (2001), less than 2 percent of all stocks had short interest greater than 5 percent of shares outstanding 1976–1983. Given the obviously large difference of opinion about and difference of public attention to different stocks, it is hard to see how such a small amount of short selling could offset the effect on stock price of the extra demand of investors who develop an irrational fixation on certain stocks.

Conclusion

The collaboration between finance and other social sciences that has become known as behavioral finance has led to a profound deepening of our knowledge of financial markets. In judging the impact of behavioral finance to date, it is important to apply the right standards. Of course, we do not expect such research to provide a method to make a lot of money off of financial market inefficiency very fast and reliably. We should not expect market efficiency to be so egregiously wrong that immediate profits should be continually available. But market efficiency can be egregiously wrong in other senses. For example, efficient markets theory may lead to drastically incorrect interpretations of events such as major stock market bubbles.

In his review of the literature on behavioral finance, Eugene Fama (1998) found fault for two basic reasons. The first was that the anomalies that were discovered tended to appear to be as often underreaction by investors as overreaction. The second was that the anomalies tended to disappear, either as time passed or as methodology of the studies improved. His first criticism reflects an incorrect view of the psychological underpinnings of behavioral finance. Since there is no fundamental psychological principle that people tend always to over-

react or always to underreact, it is no surprise that research on financial anomalies does not reveal such a principle either. His second criticism is also weak. It is the nature of scholarly research, at the frontier, in all disciplines, that initial claims of important discoveries are often knocked down by later research. The most basic anomaly, of excess volatility, seems hardly to have been knocked down, and it is in fact graphically reinforced by the experience of the past few years in the stock markets of the world. Moreover, the mere fact that anomalies sometimes disappear or switch signs with time is no evidence that the markets are fully rational. That is also what we would expect to see happen even in highly irrational markets. (It would seem peculiar to argue that irrational markets should display regular and lasting patterns!) Even the basic relation suggested by market inefficiency, that stocks whose price is bid up by investors will tend to go back down later, and stocks that are underpriced by investors will tend to go up later, is not a relation that can be easily tested or that should hold in all time periods. The fundamental value of stocks is hard to measure, and, moreover, if speculative bubbles (either positive bubbles or negative bubbles) last a long time, then even this fundamental relation may not be observed except in very long sample periods.

In further research, it is important to bear in mind the demonstrated weaknesses of efficient markets theory and maintain an eclectic approach. While theoretical models of efficient markets have their place as illustrations or characterizations of an ideal world, we cannot maintain them in their pure form as accurate descriptors of actual markets.

Indeed, we have to distance ourselves from the presumption that financial markets always work well and that price changes always reflect genuine information. Evidence from behavioral finance helps us to understand, for example, that the recent worldwide stock market boom, and then crash after 2000, had its origins in human foibles and arbitrary feedback relations and must have generated a real and substantial misallocation of resources. The challenge for economists is to make this reality a better part of their models.

References

- Andreassen, Paul and Stephen Kraus.** 1988. "Judgmental Prediction by Extrapolation." Unpublished paper, Department of Psychology, Harvard University.
- Anonymous.** 1637. *Samen-spraecck tusschen Waermondts ende Gaergoedt nopende de opkomste ende ondergangh van flora*. Haerlem: Adriaen Roman, reprinted in *Economisch Historisch Jaarboek*. 1926, 12:20–43, pp. 28–29.
- Barberis, Nicholas and Andrei Shleifer.** 2000. "Style Investing." NBER Working Paper No. w8039.
- Barsky, Robert and J. Bradford De Long.** 1993. "Why Does the Stock Market Fluctuate?" *Quarterly Journal of Economics*. May, 108, pp. 291–311.
- Bem, Daryl J.** 1965. "An Experimental Analysis of Self-Persuasion." *Journal of Experimental Social Psychology*. 1, pp.199–218.
- Breeden, Douglas T.** 1979. "An Intertemporal

- Asset Pricing Model with Stochastic Consumption and Investment Opportunities." *Journal of Financial Economics*. 7:2, pp. 265–96.
- Campbell, John Y.** 1991. "A Variance Decomposition for Stock Returns." *Economic Journal*. March, 101:405, pp. 157–79.
- Campbell, John Y. and Robert J. Shiller.** 1988. "Stock Prices, Earnings, and Expected Dividends." *Journal of Finance*. July, 43:3, pp. 661–76.
- Campbell, John Y. and Robert J. Shiller.** 1989. "The Dividend-Price Ratio and Expectations of Future Dividends and Discount Factors." *Review of Financial Studies*. 1:3, pp. 195–228.
- Campbell, John Y., Andrew W. Lo and A. Craig MacKinlay.** 1996. *The Econometrics of Financial Markets*. Princeton: Princeton University Press.
- Chen, Joseph, Harrison Hong and Jeremy C. Stein.** 2000. "Breadth of Ownership and Stock Returns." Unpublished paper, Stanford University.
- Cochrane, John H.** 2001. *Asset Pricing*. Princeton: Princeton University Press.
- Cohen, Randolph, Christopher Polk and Tuomo Vuolteenaho.** 2002. "The Value Spread." Unpublished paper, Harvard Business School. Forthcoming, *Journal of Finance*.
- Cole, Kevin, Jean Helwege and David Laster.** 1996. "Stock Market Valuation Indicators: Is This Time Different?" *Financial Analysts Journal*. May/June, pp. 56–64.
- Daniel, Kent, David Hirshleifer and Avanidhar Subramanyam.** 1998. "Investor Psychology and Security Market Under- and Overreactions." *Journal of Finance*. December, 53:6, pp. 1839–885.
- De Bondt, Werner F. M. and Richard H. Thaler.** 1985. "Does the Stock Market Overreact?" *Journal of Finance*. July, 40:3, pp. 793–805.
- De Long, J. Bradford, Andrei Shleifer, Lawrence H. Summers and Robert J. Waldmann.** 1990a. "Noise Trader Risk in Financial Markets." *Journal of Political Economy*. August, 98:4, pp. 703–38.
- De Long, J. Bradford, Andrei Shleifer, Lawrence H. Summers and Robert J. Waldmann.** 1990b. "Positive Feedback Investment Strategies and Destabilizing Rational Speculation." *Journal of Finance*. June, 45:2, pp. 379–95.
- Dechow, Patricia M., Amy P. Hutton, Lisa Muelbroek and Richard G. Stone.** 2001. "Short-Selling, Fundamental Analysis and Stock Returns." *Journal of Financial Economics*. Forthcoming.
- Fama, Eugene F.** 1970. "Efficient Capital Markets: A Review of Empirical Work." *Journal of Finance*. May, 25:2, pp. 383–417.
- Fama, Eugene F.** 1991. "Efficient Capital Markets: II." *Journal of Finance*. December, 46:5, pp. 1575–617.
- Fama, Eugene F.** 1998. "Market Efficiency, Long-Term Returns, and Behavioral Finance." *Journal of Financial Economics*. September, 49:3, pp. 283–306.
- Figlewski, Stephen.** 1981. "The Informational Effects of Restrictions on Short Sales: Some Empirical Evidence." *Journal of Financial and Quantitative Analysis*. November, 16:4, pp. 463–76.
- Figlewski, Stephen and Gwendolyn P. Webb.** 1993. "Options, Short Sales, and Market Completeness." *Journal of Finance*. June, 48:2, pp. 761–77.
- Garber, Peter M.** 1990. "Famous First Bubbles." *Journal of Economic Perspectives*. Spring, 4:2, pp. 35–54.
- Garber, Peter M.** 2000. *Famous First Bubbles*. Cambridge: MIT Press.
- Goetzmann, William N. and Massimo Massa.** 1999. "Daily Momentum and Contrarian Behavior of Index Fund Investors." Unpublished paper, Yale University.
- Grinblatt, Mark and Bing Han.** 2001. "The Disposition Effect and Momentum." Unpublished paper, Anderson School, UCLA.
- Grossman, Sanford J. and Robert J. Shiller.** 1981. "The Determinants of the Variability of Stock Market Prices." *American Economic Review*. May, 71:2, pp. 222–27.
- Hansen, Lars P. and Ravi Jagannathan.** 1991. "Implications of Security Market Data for Models of Dynamic Economies." *Journal of Political Economy*. April, 99:2, pp. 225–62.
- Jarvis, Chris.** 1999. "The Rise and Fall of the Pyramid Schemes in Albania." International Monetary Fund Working Paper No. 99-98.
- Jegadeesh, Narasimhan and Sheridan Titman.** 1993. "Returns to Buying Winners and Selling Losers: Implications for Stock Market Efficiency." *Journal of Finance*. March, 48:1, pp. 65–91.
- Jones, Charles M. and Owen A. Lamont.** 2001. "Short-Sale Constraints and Stock Returns." NBER Working Paper No. 8494.
- Jung, Jeeman and Robert J. Shiller.** 2002. "One Simple Test of Samuelson's Dictum for the Stock Market." NBER Working Paper No. w9348.
- Kahneman, Daniel and Amos Tversky.** 1979. "Prospect Theory: An Analysis of Decision Under Risk." *Econometrica*. March, 47:2, pp. 263–92.
- Lamont, Owen A. and Richard H. Thaler.** 2001. "Can the Market Add and Subtract? Mispricing in Stock Market Carve-Outs." National Bureau of Economic Research Working Paper

- No. 8302, 2000. Forthcoming, *Journal of Political Economy*.
- LeRoy, Stephen F. and Richard D. Porter.** 1981. "The Present-Value Relation: Tests Based on Implied Variance Bounds." *Econometrica*. May, 49:3, pp. 97–113.
- Lucas, Robert E.** 1978. "Asset Prices in an Exchange Economy." *Econometrica*. November, 46:6, pp. 1429–445.
- MacKay, Charles.** 1996. "Memoirs of Extraordinary Popular Delusions," 1841, in *Extraordinary Popular Delusions and the Madness of Crowds and Confusión de Confusiones*. Martin Fridson, ed. New York: John Wiley.
- Malkiel, Burton G.** 1973. *A Random Walk Down Wall Street*. New York: W. W. Norton.
- Marimon, Ramon, Stephen E. Spear and Shyam Sunder.** 1993. "Expectationally Driven Market Volatility: An Experimental Study." *Journal of Economic Theory*. October, 61:1, pp. 74–103.
- Marsh, Terry A. and Robert C. Merton.** 1986. "Dividend Variability and Variance Bounds Tests for the Rationality of Stock Market Prices." *American Economic Review*. June, 76:3, pp. 483–98.
- McGrattan, Ellen R. and Edward C. Prescott.** 2001. "Taxes, Regulation, and Asset Prices." Unpublished paper, Federal Reserve Bank of Minneapolis.
- Merton, Robert C.** 1973. "An Intertemporal Capital Asset Pricing Model." *Econometrica*. September, 41:5, pp. 867–87.
- Miller, Edward M.** 1977. "Risk, Uncertainty and Divergence of Opinion." *Journal of Finance*. September, 32:4, pp. 1151–168.
- Moss, David A.** 2002. *When All Else Fails: Government as the Ultimate Risk Manager*. Cambridge, Mass.: Harvard University Press.
- Odean, Terrance.** 1998. "Are Investors Reluctant to Realize their Losses?" *Journal of Finance*. October, 53:5, pp. 1775–798.
- Samuelson, Paul A.** 1998. "Summing Up on Business Cycles: Opening Address," in *Beyond Shocks: What Causes Business Cycles*. Jeffrey C. Furrer and Scott Schuh, eds. Boston: Federal Reserve Bank of Boston, pp. 33–36.
- Scherbina, Anna.** 2000. "Stock Prices and Differences in Opinion: Empirical Evidence that Prices Reflect Optimism." Unpublished paper, Northwestern University.
- Shefrin, Hersh.** 2000. *Beyond Greed and Fear: Understanding Behavioral Finance and the Psychology of Investing*. Boston, Mass.: Harvard Business School Press.
- Shefrin, Hersh.** 2001. *Behavioral Finance (The International Library of Critical Writings in Financial Economics), Volumes I through IV*. Cheltenham, U.K.: Edward Elgar.
- Shiller, Robert J.** 1982. "Consumption, Asset Markets and Macroeconomic Fluctuations." *Carnegie-Rochester Conference Series on Public Policy*. Autumn, 17, pp. 203–38.
- Shiller, Robert J.** 1989. *Market Volatility*. Cambridge, Mass.: MIT Press.
- Shiller, Robert J.** 1990a. "Speculative Prices and Popular Models." *Journal of Economic Perspectives*. Spring, 4:2, pp. 55–65.
- Shiller, Robert J.** 1990b. "Market Volatility and Investor Behavior." *American Economic Review*. May, 80:2, pp. 58–62.
- Shiller, Robert J.** 2000a. *Irrational Exuberance*. Princeton, N.J.: Princeton University Press.
- Shiller, Robert J.** 2000b. "Measuring Bubble Expectations and Investor Confidence." *Journal of Psychology and Financial Markets*. 1:1, pp. 49–60.
- Shiller, Robert J.** 2002. "Bubbles, Human Judgment, and Expert Opinion." *Financial Analysts Journal*. 58, pp. 18–26.
- Shleifer, Andrei.** 2000. *Inefficient Markets*. Oxford: Oxford University Press.
- Shleifer, Andrei and Lawrence Summers.** 1990. "The Noise-Trader Approach to Finance." *Journal of Economic Perspectives*. Spring, 4:2 pp. 19–33.
- Siegel, Jeremy J.** 2002. *Stocks for the Long Run*. Third Edition. New York: McGraw-Hill.
- Smith, Vernon, Gerry Suchanek and Arlington Williams.** 1988. "Bubbles, Crashes, and Endogenous Expectations in Experimental Spot Asset Markets." *Econometrica*. September, 56:5, pp. 1119–153.
- Statman, Meir and Hersh Shefrin.** 1985. "The Disposition to Sell Winners Too Early and Ride Losers Too Long: Theory and Evidence." *Journal of Finance*. July, 40:3, pp. 777–90.
- Thaler, Richard.** 2003. *Advances in Behavioral Finance II*. New York: Russell Sage.
- Tversky, Amos and Daniel Kahneman.** 1974. "Judgment under Uncertainty: Heuristics and Biases." *Science*. 185:4157, pp. 1124–31.
- Vuolteenaho, Tuomo.** "What Drives Firm-Level Stock Returns?" *Journal of Finance*. February, 57:1, pp. 233–64.
- West, Kenneth D.** 1988. "Dividend Innovations and Stock Price Volatility." *Econometrica*. January, 56:1, pp. 36–71.

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3. Girish Balkrishna Joshi, Ranjan Dash. 2023. Analysis of Active Vs Passive Investment Behavior in Emerging Markets. *Management* 27:1, 130-156. [[Crossref](#)]
4. Tong Li, Hui Chen, Wei Liu, Guang Yu, Yongtian Yu. 2023. Understanding the role of social media sentiment in identifying irrational herding behavior in the stock market. *International Review of Economics & Finance* 87, 163-179. [[Crossref](#)]
5. Shahid Raza, Sun Baiqing, Pwint Kay-Khine, Muhammad Ali Kemal. 2023. Uncovering the Effect of News Signals on Daily Stock Market Performance: An Econometric Analysis. *International Journal of Financial Studies* 11:3, 99. [[Crossref](#)]
6. Leilei Gu, Yuchao Peng, Samuel A. Vigne, Yizhi Wang. 2023. Hidden costs of non-green performance? The impact of air pollution awareness on loan rates for Chinese firms. *Journal of Economic Behavior & Organization* 213, 233-250. [[Crossref](#)]
7. Jalil Vaziri, Dariush Farid, Mehdi Nazemi Ardakani, Seyed Mojtaba Hosseini Bamakan, MohammadAli Shahlaei. 2023. A time-varying stock portfolio selection model based on optimized PSO-BiLSTM and multi-objective mathematical programming under budget constraints. *Neural Computing and Applications* 35:25, 18445-18470. [[Crossref](#)]
8. Roberta Martino, Viviana Ventre. 2023. An Analytic Network Process to Support Financial Decision-Making in the Context of Behavioural Finance. *Mathematics* 11:18, 3994. [[Crossref](#)]
9. Khushboo Aggarwal, Mithilesh Kumar Jha. 2023. Day-of-the-week effect and volatility in stock returns: evidence from the Indian stock market. *Managerial Finance* 49:9, 1438-1452. [[Crossref](#)]
10. Marco Aurélio dos Santos, Luiz Paulo Lopes Fávero, Talles Vianna Brugni, Ricardo Goulart Serra. 2023. Adaptive markets hypothesis and economic-institutional environment: a cross-country analysis. *Revista de Gestão* 49. . [[Crossref](#)]
11. Robert Huggins, Piers Thompson. 2023. Uneven Development, Competitiveness and Behavioural Economic Geography: Addressing 'Levelling Up' Policies from a Human Perspective. *Regional Science Policy & Practice* . [[Crossref](#)]
12. I. V. Evstigneev, T. Hens, M. J. Vanaei. 2023. Evolutionary finance: a model with endogenous asset payoffs. *Journal of Bioeconomics* 25:2, 117-143. [[Crossref](#)]
13. Maysoon Khojah, Masood Ahmed, Muhammad Asif Khan, Hossam Haddad, Nidal Mahmoud Al-Ramahi, Mohammed Arshad Khan. 2023. Economic policy uncertainty and stock market in G7 Countries: A panel threshold effect perspective. *PLOS ONE* 18:7, e0288883. [[Crossref](#)]
14. Jia-Ping Huang, Yang Zhang, Juanxi Wang. 2023. Dynamic effects of social influence on asset prices. *Journal of Economic Interaction and Coordination* 18:3, 671-699. [[Crossref](#)]
15. Brahim Gaies, Mohamed Sahbi Nakhli, Jean-Michel Sahut, Denis Schweizer. 2023. Interactions between investors' fear and greed sentiment and Bitcoin prices. *The North American Journal of Economics and Finance* 67, 101924. [[Crossref](#)]
16. Hongming Li, Jiahui Li, Yuanying Jiang. 2023. Exploring the Dynamic Impact between the Industries in China: New Perspective Based on Pattern Causality and Time-Varying Effect. *Systems* 11:7, 318. [[Crossref](#)]

17. Tim Stroh, Anne-Laure Mention, Cameron Duff. 2023. The impact of evolved psychological mechanisms on innovation and adoption: A systematic literature review. *Technovation* **125**, 102759. [[Crossref](#)]
18. Leonardo Quero Virla. 2023. An empirical characterization of volatility in the German stock market. *SN Business & Economics* **3**:7. . [[Crossref](#)]
19. F. Alibeigof, M. H. Safarzadeh. 2023. The Tehran Stock Exchange Reaction to Covid-19 Outbreak Announcement. *Economics: the strategy and practice* **18**:2, 204-219. [[Crossref](#)]
20. Maria I. Klouvidaki, Nikos Antonopoulos, Georgios D. Styliaras, Andreas Kanavos. 2023. Virtual Restaurants: Customer Experience Keeps Their Businesses Alive. *Information* **14**:7, 406. [[Crossref](#)]
21. Maria Alexandra Craciun. 2023. Behavioral Economics and Technology Innovation: Using Choice Architecture to Build and Scale Products. *Proceedings of the International Conference on Business Excellence* **17**:1, 904-913. [[Crossref](#)]
22. Ali A. Shehadeh, Min Zheng. 2023. Calendar anomalies in stock market returns: Evidence from Middle East countries. *International Review of Economics & Finance* **5**. . [[Crossref](#)]
23. Esra ÖZKAHVECİ, Fatih KONAK, Sabiha KILIÇ. 2023. The Impact of Corporate Governance Capacity on Share Price. *İnsan ve Toplum Bilimleri Araştırmaları Dergisi* **12**:2, 1035-1056. [[Crossref](#)]
24. Ilya N. Galushko. 2023. Exchange Journalism from the Position of Behavioral Finance: Economic Thinking of a Stock Market Speculator in the Beginning of the 20th Century. *Economic History* **19**:2, 188-196. [[Crossref](#)]
25. Geoffrey M. Ngene, Rangan Gupta. 2023. Impact of housing price uncertainty on herding behavior: evidence from UK's regional housing markets. *Journal of Housing and the Built Environment* **38**:2, 931-949. [[Crossref](#)]
26. Deok Hee Hahn, Hyun-ju Kang. 2023. An empirical study on the short-term effects of economic sentiment on the direct and indirect investment markets in real estate. *Journal of Housing and Urban Finance* **8**:1, 19-31. [[Crossref](#)]
27. Samuel Tabot Enow. 2023. Random walk and modelling stock return. *International Journal of Research in Business and Social Science (2147- 4478)* **12**:3, 353-360. [[Crossref](#)]
28. Faten Tlili, Mustapha Chaffai, Imed Medhioub. 2023. Investor behavior and psychological effects: herding and anchoring biases in the MENA region. *China Finance Review International* **42**. . [[Crossref](#)]
29. Karina Kelen Da Cruz, José Willer Do Prado, Francisval de Melo Carvalho. 2023. O estado da arte em finanças comportamentais: um estudo bibliométrico. *Revista de Gestão e Secretariado (Management and Administrative Professional Review)* **14**:5, 7480-7500. [[Crossref](#)]
30. Carlos David Cardona-Arenas, Rafael Gómez-Gómez, Eliana Morales-Zuluaga. 2023. COVID-19 and its short-term informational impact on the stock markets of the Pacific Alliance countries. *SN Business & Economics* **3**:5. . [[Crossref](#)]
31. Orlando Gomes. 2023. Behavioral economics and finance: a selective review of models, methods and tools. *Studies in Economics and Finance* **40**:3, 393-410. [[Crossref](#)]
32. Sangeeta Wats, Simarjeet Singh, Sanjay Gupta. 2023. The quest for ICO: Identifying and prioritising the factors influencing initial coin offering selection. *International Social Science Journal* **37**. . [[Crossref](#)]
33. Diana Saldanha, T. Mallikarjunappa, Kofi Mintah Oware. 2023. Determinants of Adaptive Behaviour in Stock Market: A Review. *Vision: The Journal of Business Perspective* **10**, 097226292211488. [[Crossref](#)]
34. Anshita Bihari, Manoranjan Dash, Kamalakanta Muduli, Anil Kumar, Eyob Mulat-Weldemeskel, Sunil Luthra. 2023. Does cognitive biased knowledge influence investor decisions? An empirical investigation using machine learning and artificial neural network. *VINE Journal of Information and Knowledge Management Systems* **47**. . [[Crossref](#)]

35. Rui Guo. 2023. A composite trend representation-based tracking system with historical portfolio data for portfolio optimization. *Journal of Computational Methods in Sciences and Engineering* 23:2, 1021-1042. [[Crossref](#)]
36. Zhen Yu, Michael D. Wang, Xiangdong Wei, Jie Lou. 2023. News Credibility and Influence within the Financial Markets. *Journal of Behavioral Finance* 24:2, 238-257. [[Crossref](#)]
37. Hubert Dichtl, Wolfgang Drobetz, Tizian Otto. 2023. Forecasting Stock Market Crashes via Machine Learning. *Journal of Financial Stability* 65, 101099. [[Crossref](#)]
38. Artor Nuhiu, Florin Aliu, Fisnik Aliu, Arbër Hoti. 2023. Measuring Market Efficiency Through Valuation Techniques: The Case of Visegrad Countries Stock Markets. *Studies in Business and Economics* 18:1, 198-217. [[Crossref](#)]
39. Durmuş Fatih AYGÜN, Erdiñç ALTAY. 2023. Borsa İstanbul'da Takvim Anomalilerinin Varlığının Zaman İçindeki Gelişiminin Analizi. *İstanbul Gelişim Üniversitesi Sosyal Bilimler Dergisi* 10:1, 33-72. [[Crossref](#)]
40. Tatja Karkkainen. 2023. Network externalities in the long-term performance of ICOs. *Journal of Digital Economy* 21. . [[Crossref](#)]
41. Danuta Dziawgo. 2023. Evolution of loyalty programs offered to customers and investors. *Financial Internet Quarterly* 19:1, 35-47. [[Crossref](#)]
42. John W. Goodell, Satish Kumar, Purnima Rao, Shubhangi Verma. 2023. Emotions and stock market anomalies: A systematic review. *Journal of Behavioral and Experimental Finance* 37, 100722. [[Crossref](#)]
43. Maggie Rong Hu, Xiaoyang Li, Yang Shi, Xiaoquan (Michael) Zhang. 2023. Numerological Heuristics and Credit Risk in Peer-to-Peer Lending. *Information Systems Research* 45. . [[Crossref](#)]
44. Aditya Keshari, Amit Gautam. 2023. Asset pricing in global scenario: a bibliometric analysis. *IIM Ranchi journal of management studies* 2:1, 48-69. [[Crossref](#)]
45. Zewei Li, Qi Wu, Pengfei Hong, Runzhi Tian. 2023. Effects of Investment Experience on the Stock Investment Task: The Mediating Role of Risk Perception. *Behavioral Sciences* 13:2, 115. [[Crossref](#)]
46. Lenka Mynaříková, Vít Pošta. 2023. The Effect of Consumer Confidence and Subjective Well-being on Consumers' Spending Behavior. *Journal of Happiness Studies* 24:2, 429-453. [[Crossref](#)]
47. Jinwen Kang. 2023. The Feedback Model and Formation of Bubbles. *Highlights in Business, Economics and Management* 3, 68-73. [[Crossref](#)]
48. Joseph Emmanuel Tetteh, Christopher Boachie. 2023. Are the saving decision patterns of bank customers also clouded by psychological biases? Evidence from Ghana. *Review of Behavioral Finance* 15:1, 1-18. [[Crossref](#)]
49. Muskan Sachdeva, Ritu Lehal, Sanjay Gupta, Aashish Garg. 2023. What make investors herd while investing in the Indian stock market? A hybrid approach. *Review of Behavioral Finance* 15:1, 19-37. [[Crossref](#)]
50. Nery Elisabeth García Paredes, Alexander Fernando Haro Sarango, Gloria Narcisca Román Cañizares, Paúl Vicente Moina Sánchez, Henry Robert López Núñez. 2023. Estructura de capital: una aproximación teórica y estadística. *LATAM Revista Latinoamericana de Ciencias Sociales y Humanidades* 4:1. . [[Crossref](#)]
51. Xolani Sibande, Rangan Gupta, Riza Demirer, Elie Bouri. 2023. Investor Sentiment and (Anti) Herding in the Currency Market: Evidence from Twitter Feed Data. *Journal of Behavioral Finance* 24:1, 56-72. [[Crossref](#)]
52. Thomas Delcey, Francesco Sergi. 2023. The efficient market hypothesis and rational expectations macroeconomics. How did they meet and live (happily) ever after?. *The European Journal of the History of Economic Thought* 30:1, 86-116. [[Crossref](#)]

53. Metin Argan, Vahdet Altundal, Mehpare Tokay Argan. 2023. What Is the Role of FoMO in Individual Investment Behavior? The Relationship among FoMO, Involvement, Engagement, and Satisfaction. *Journal of East-West Business* 29:1, 69-96. [[Crossref](#)]
54. Qianyi Xiao, Baha Ihnaini. 2023. Stock trend prediction using sentiment analysis. *PeerJ Computer Science* 9, e1293. [[Crossref](#)]
55. Daniel Pereira Alves de Abreu, Marcos Antônio de Camargos, Aureliano Angel Bressan. 2023. The (In)Efficiency of Emerging and Developed Markets: An Analysis from Fractal Theory. *BAR - Brazilian Administration Review* 20:1. . [[Crossref](#)]
56. Beby Kendida Hasibuan, Isfenti Sadalia. Review of Behavioral Finance from an Investor's Perspective 213-218. [[Crossref](#)]
57. Sikandar Rahman, Syyed Ali Raza Kazmi, Muhammad Ramzan. 2023. Investors Sentiment and Stock Return; Evidence from Pakistan Stock Exchange (PSX). *SSRN Electronic Journal* 32. . [[Crossref](#)]
58. Miloudi Kobiyh, Adil El Amri. 2023. Inefficiency of Financial Markets and Paths to the Development of a Modern Financial Theory. *Financial Markets, Institutions and Risks* 7:2, 95-100. [[Crossref](#)]
59. Hyun Jung Rim, Jenny Zha Giedt. 2023. Mistaking Bad News for Good News: Mispricing of a Voluntary Disclosure. *SSRN Electronic Journal* 73. . [[Crossref](#)]
60. Kiran Dhanasekaran, Sri Teja Aluri, Neeraj Karthikeyan, Saravanan Hari Baskaran, Ramani Selvanambi. 2023. A Study on the Impact of Sentiment Analysis on Stock Market Prediction. *Recent Advances in Computer Science and Communications* 16:1. . [[Crossref](#)]
61. Michael Miess, Michael Ornetzeder. Kapitel 16. Geld- und Finanzsystem 457-479. [[Crossref](#)]
62. Christian R. Proaño, Leonardo Quero Virla. Macro-Financial Dynamics: Theories, Empirical Methods, and Time Scales . [[Crossref](#)]
63. Ms. Jayshree Waghela Parmar, Dr. Ismail Bootwala. 2022. AN ANALYSIS OF BEHAVIORAL BIASES AGAINST VARIOUS PARAMETERS. *Towards Excellence* 981-994. [[Crossref](#)]
64. Dr. Arnaz Kaizad Wadia, Ms. Kavisha Shah. 2022. EMERGING SCOPE OF AIRPORT RETAILING IN INDIA. *Towards Excellence* 975-980. [[Crossref](#)]
65. Panayiotis C. Andreou, Neophytos Lambertides, Marina Magidou. 2022. A Critique of the Agency Theory Viewpoint of Stock Price Crash Risk: The Opacity and Overinvestment Channels. *British Journal of Management* 70. . [[Crossref](#)]
66. Rajesh Elangovan, Francis Gnanasekar Irudayasamy, Satyanarayana Parayitam. 2022. Testing the market efficiency in Indian stock market: evidence from Bombay Stock Exchange broad market indices. *Journal of Economics, Finance and Administrative Science* 27:54, 313-327. [[Crossref](#)]
67. Anshita Bihari, Manoranjan Dash, Sanjay Kumar Kar, Kamalakanta Muduli, Anil Kumar, Sunil Luthra. 2022. Exploring behavioural bias affecting investment decision-making: a network cluster based conceptual analysis for future research. *International Journal of Industrial Engineering and Operations Management* 4:1/2, 19-43. [[Crossref](#)]
68. Khalid Khan, Chi-Wei Su, Adnan Khurshid, Muhammad Umar. 2022. Are there bubbles in the vanilla price?. *Agricultural and Food Economics* 10:1. . [[Crossref](#)]
69. Boxiang Jia, Dehua Shen, Wei Zhang. 2022. Extreme sentiment and herding: Evidence from the cryptocurrency market. *Research in International Business and Finance* 63, 101770. [[Crossref](#)]
70. Naina, Kapil Gupta. 2022. Sentimental Herding in Stock Market: Evidence from India. *Vision: The Journal of Business Perspective* 47. . [[Crossref](#)]
71. Mahmoud Qadan, Doron Nisani, Ron Eichel. 2022. Irregularities in forward-looking volatility. *The Quarterly Review of Economics and Finance* 86, 489-501. [[Crossref](#)]

72. Saumya Ranjan Dash, Debasish Maitra. 2022. The COVID-19 pandemic uncertainty, investor sentiment, and global equity markets: Evidence from the time-frequency co-movements. *The North American Journal of Economics and Finance* **62**, 101712. [[Crossref](#)]
73. Kuang Kuang Deng, Siu Kei Wong, Ka Shing Cheung, Kwok Sang Tse. 2022. Do real estate investors trade on momentum?. *The North American Journal of Economics and Finance* **62**, 101746. [[Crossref](#)]
74. Ishanka K. Dias, J.M. Ruwani Fernando, P. Narada D. Fernando. 2022. Does investor sentiment predict bitcoin return and volatility? A quantile regression approach. *International Review of Financial Analysis* **84**, 102383. [[Crossref](#)]
75. Vitor Borges Monteiro, Ana Virginia Feitosa Martins, Ary Junior Silveira Carlos. 2022. Finanças Comportamentais e Teoria do Esquema: Uma proposta de interseção metodológica / Behavioral Finance and Schema Theory: A proposed methodological intersection. *ID on line. Revista de psicologia* **16**:63, 515-529. [[Crossref](#)]
76. Fatih KONAK, Esra ÖZKAHVECİ. 2022. Finansal Astroloji: Merkür Retrosu Finansal Piyasaları Etkiler Mi?. *Kabramanmaraş Sütçü İmam Üniversitesi Sosyal Bilimler Dergisi* . [[Crossref](#)]
77. Olivier Mesly, Maria Petrescu, Alexandra Mesly. 2022. Terminology Matters: A Review on the Concept of Economic Predation. *Journal of Economic Issues* **56**:4, 959-987. [[Crossref](#)]
78. Saeede Anbaee Farimani, Majid Vafaei Jahan, Amin Milani Fard. 2022. From Text Representation to Financial Market Prediction: A Literature Review. *Information* **13**:10, 466. [[Crossref](#)]
79. Gabriel Paes Herrera, Michel Constantino, Jen-Je Su, Athula Naranpanawa. 2022. Renewable energy stocks forecast using Twitter investor sentiment and deep learning. *Energy Economics* **114**, 106285. [[Crossref](#)]
80. Changtai Li, Sook-Rei Tan, Nick Ho, Wai-Mun Chia. 2022. Behavioral heterogeneity and financial crisis: The role of sentiment. *Physica A: Statistical Mechanics and its Applications* **603**, 127767. [[Crossref](#)]
81. Mateusz Tomal. 2022. Identification of house price bubbles using robust methodology: evidence from Polish provincial capitals. *Journal of Housing and the Built Environment* **37**:3, 1461-1488. [[Crossref](#)]
82. Andrew Phiri. 2022. Changing efficiency of BRICS currency markets during the COVID-19 pandemic. *Economic Change and Restructuring* **55**:3, 1673-1699. [[Crossref](#)]
83. Kang-Lin Peng, Chih-Hung Wu, Pearl M.C. Lin, IokTeng Esther Kou. 2022. Investor sentiment in the tourism stock market. *Journal of Behavioral and Experimental Finance* **61**, 100732. [[Crossref](#)]
84. E. F. Guedes, R. P. C. Santos, L. H. R. Figueredo, P. A. da Silva, R. M. T. S. Dias, G. F. Zebende. 2022. Efficiency and Long-Range Correlation in G-20 Stock Indexes: A Sliding Windows Approach. *Fluctuation and Noise Letters* **21**:04. . [[Crossref](#)]
85. Abdullah A. Aljughaiman, Kaouther E. Chebbi. 2022. Do Investor Overconfidence and Loss Aversion Drive Saudi Firm Market Performance? The Moderating Effect of Corporate Governance. *Sustainability* **14**:16, 10072. [[Crossref](#)]
86. Ningli Wang, Wanhai You. 2022. New insights into the role of global factors in BRICS stock markets: A quantile cointegration approach. *Economic Systems* **70**, 101015. [[Crossref](#)]
87. Jifeng Sun, Yinghe Qing, Chang Liu, Jianwu Lin. Self-FTS: A Self-Supervised Learning Method for Financial Time Series Representation in Stock Intraday Trading 501-506. [[Crossref](#)]
88. Alla Koblyakova, Larisa Fleishman, Orly Furman. 2022. Accuracy of Households' Dwelling Valuations, Housing Demand and Mortgage Decisions: Israeli Case. *The Journal of Real Estate Finance and Economics* **65**:1, 48-74. [[Crossref](#)]
89. Mahinda Mailagaha Kumbure, Christoph Lohrmann, Pasi Luukka, Jari Porras. 2022. Machine learning techniques and data for stock market forecasting: A literature review. *Expert Systems with Applications* **197**, 116659. [[Crossref](#)]

90. Oğuzhan ECE. 2022. DEFAULT RİSKİNE DAYALI OLARAK TÜRKİYE'DE KONUT FİYAT KÖPÜKLERİNİN VARLIĞININ ANALİZİ: TRA 1 BÖLGESİNDEN KANITLAR. *Erzincan Binali Yıldırım Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi* 4:1, 1-22. [[Crossref](#)]
91. Dushmanta Kumar Padhi, Neelamadhab Padhy, Akash Kumar Bhoi, Jana Shafi, Seid Hassen Yesuf. 2022. An Intelligent Fusion Model with Portfolio Selection and Machine Learning for Stock Market Prediction. *Computational Intelligence and Neuroscience* 2022, 1-18. [[Crossref](#)]
92. Jae Hoon Choi, David Munro. 2022. Market liquidity and excess volatility: Theory and experiment. *Journal of Economic Dynamics and Control* 139, 104442. [[Crossref](#)]
93. Arbric Jashari, Victor Tiberius, Marina Dabić. 2022. Tracing the progress of scenario research in business and management. *FUTURES & FORESIGHT SCIENCE* 4:2. . [[Crossref](#)]
94. Kashif Rashid, Yasir Bin Tariq, Mamoon Ur Rehman. 2022. Behavioural errors and stock market investment decisions: recent evidence from Pakistan. *Asian Journal of Accounting Research* 7:2, 129-145. [[Crossref](#)]
95. Madhu Kumari, Prallad Debnath. 2022. Determinants of Mutual Fund Flows in the Indian Stock Market: Insights Through the Nonlinear Autoregressive Distributed Lag Bounds-testing Approach with Structural Breaks. *Vision: The Journal of Business Perspective* 2, 097226292210968. [[Crossref](#)]
96. Noelle Greenwood, Peter Warren. 2022. Climate risk disclosure and climate risk management in UK asset managers. *International Journal of Climate Change Strategies and Management* 14:3, 272-292. [[Crossref](#)]
97. Zhengxun Tan, Yao Fu, Hong Cheng, Juan Liu. 2022. Stock prices' long memory in China and the United States. *International Journal of Emerging Markets* 17:5, 1292-1314. [[Crossref](#)]
98. Martin B. Tarlie, Georgios Sakoulis, Roy Henriksson. 2022. Stock market bubbles and anti-bubbles. *International Review of Financial Analysis* 81, 101235. [[Crossref](#)]
99. Farshid Balaneji, Dietmar Maringer. Applying Sentiment Analysis, Topic Modeling, and XGBoost to Classify Implied Volatility 1-8. [[Crossref](#)]
100. Takanobu Mizuta, Isao Yagi, Kosei Takashima. Instability of financial markets by optimizing investment strategies investigated by an agent-based model 1-8. [[Crossref](#)]
101. İrfan SEKTİOĞLU, Aykut SEZGİN. 2022. FİNANSTA RASYONELİTEDEN İRRASYONALİTEYE: KAVRAMSAL BİR ÇERÇEVE. *Türkiye Mesleki ve Sosyal Bilimler Dergisi* :8, 57-65. [[Crossref](#)]
102. Muhammad Yasir, A. Özlem Önder. 2022. Time-varying herding spillover for emerging countries: evidence from BRIC countries and Turkey. *Review of Behavioral Finance* 33. . [[Crossref](#)]
103. Buthiena Kharabsheh, Omar K. Gharaibeh, Aseel Mahafza. 2022. Is there an impact of COVID-19 on the returns of the Amman Stock Exchange?. *Investment Management and Financial Innovations* 19:2, 24-36. [[Crossref](#)]
104. Ritika, Nawal Kishor. 2022. Development and validation of behavioral biases scale: a SEM approach. *Review of Behavioral Finance* 14:2, 237-259. [[Crossref](#)]
105. Mattia Guerini, Francesco Lamperti, Mauro Napoletano, Andrea Roventini, Tania Treibich. 2022. Unconventional monetary policies in an agent-based model with mark-to-market standards. *Review of Evolutionary Political Economy* 3:1, 73-107. [[Crossref](#)]
106. Jiayu Huang, Yifan Wang, Yaojun Fan, Hexuan Li. 2022. Gauging the effect of investor overconfidence on trading volume from the perspective of the relationship between lagged stock returns and current trading volume. *International Finance* 25:1, 103-123. [[Crossref](#)]
107. Çağrı KÖROĞLU, Hatice GÖKBULUT KAZAN, Eren TEMEL. 2022. Covid-19 Pandemi Sürecinde Finansal Yatırım Alışkanlıkları ve Davranışsal Finans Eğilimleri. *Yönetim ve Ekonomi Dergisi* 29:1, 1-25. [[Crossref](#)]

108. Meliana Meliana, Hyacinthia Kesuma, Desy Enjelina, Arief Rijanto, Dewi Savitri Saraswati. 2022. Is cash flow growth helping stock performance during the COVID-19 outbreak? Evidence from Indonesia. *Investment Management and Financial Innovations* **19**:1, 247-261. [[Crossref](#)]
109. Kingstone Nyakurukwa, Yudhvir Seetharam. 2022. Can a 280-character message explain stock returns? Evidence from South Africa. *Managerial Finance* **48**:4, 663-686. [[Crossref](#)]
110. Chunhua Hu, Shaoyong Lai. 2022. The influence of knowledge level on the proportion of wealth in the stock market. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences* **478**:2259. . [[Crossref](#)]
111. FILIPPO GUSELLA. 2022. DETECTING AND MEASURING FINANCIAL CYCLES IN HETEROGENEOUS AGENTS MODELS: AN EMPIRICAL ANALYSIS. *Advances in Complex Systems* **25**:02n03. . [[Crossref](#)]
112. Bruna Puppo, Michel Leles, Leonardo Mozelli, Elton Sbruzzi. 2022. A Multicriteria Decision Trading System Based on Prospect Theory: A Risk Return Analysis of the TODIM Method. *Processes* **10**:3, 609. [[Crossref](#)]
113. Nils Muhlack, Christian Soost, Christian Johannes Henrich. 2022. Does Weather Still Affect The Stock Market?. *Schmalenbach Journal of Business Research* **74**:1, 1-35. [[Crossref](#)]
114. Yao Song, Yanpu Yang, Peiyao Cheng. 2022. The Investigation of Adoption of Voice-User Interface (VUI) in Smart Home Systems among Chinese Older Adults. *Sensors* **22**:4, 1614. [[Crossref](#)]
115. Sergey Petrov, Oksana Kashina, Jean-Michel Sahut. 2022. Auction mechanism and time-varying Walrasian equilibrium: an application to stock market. *Gestion 2000* **Volume 38**:4, 133-153. [[Crossref](#)]
116. Bikramaditya Ghosh, Elie Bouri. 2022. Long Memory and Fractality in the Universe of Volatility Indices. *Complexity* **2022**, 1-8. [[Crossref](#)]
117. Vincent Berthet. 2022. The Impact of Cognitive Biases on Professionals' Decision-Making: A Review of Four Occupational Areas. *Frontiers in Psychology* **12**. . [[Crossref](#)]
118. Anastasios D. Konstantinidis, Spinthiropoulos Konstantinos, Garefalakis Alexandros, Hara Haritaki. Cognitive/Emotional Errors and Financial Education 189-202. [[Crossref](#)]
119. Guido Wenski. Behavioral Finance – Investieren am Aktienmarkt 123-147. [[Crossref](#)]
120. Ruth Gimeno, José Luis Sarto, Luis Vicente. 2022. You Learn When It Hurts: Evidence in the Mutual Fund Industry. *Journal of Risk and Financial Management* **15**:1, 33. [[Crossref](#)]
121. Yang Cui, Yucen Jiang, Haisong Gu. Novel Sentiment Analysis from Twitter for Stock Change Prediction 160-172. [[Crossref](#)]
122. . Bibliographie 141-144. [[Crossref](#)]
123. Maximilian Böck. 2022. Identification of Non-Rational Risk Shocks. *SSRN Electronic Journal* **35**. . [[Crossref](#)]
124. Massimo Amato, Francesco Saraceno. 2022. Squaring the Circle: How to Guarantee Fiscal Space and Debt Sustainability with a European Debt Agency. *SSRN Electronic Journal* **38**. . [[Crossref](#)]
125. Changfa Fu. 2022. Behavioural Finance: A Synthetic Review of Literature and Future Development. *SSRN Electronic Journal* **13**. . [[Crossref](#)]
126. Gan Jin, Md Rafiul Karim, Gunther G. Schulze. 2022. The Stock Market Effects of Islamist Versus Non-Islamist Terror. *SSRN Electronic Journal* **93**. . [[Crossref](#)]
127. Zhenglong Cong, Zixuan Wang. 2022. Research on the Correlation between China's Shanghai A-Share and Gold Market from the Perspective of Investor Sentiment. *SSRN Electronic Journal* **15**. . [[Crossref](#)]
128. Andrew Y. Chen, Alejandro Lopez-Lira, Tom Zimmermann. 2022. Peer-Reviewed Theory Does Not Help Predict the Cross-section of Stock Returns. *SSRN Electronic Journal* . [[Crossref](#)]

129. Azhar Imtiyaz Bisati, Prof. S.M. Imamul Haque, Umer Jon Ganai, Ishfaq Gulzar. 2021. Decision Making in Financial Markets: A Thematic Review and Discussion. *Journal of Business Strategy Finance and Management* 3:1-2, 48-65. [[Crossref](#)]
130. WENTING ZHANG, SHIGEYUKI HAMORI. 2021. THE CONNECTEDNESS BETWEEN THE SENTIMENT INDEX AND STOCK RETURN VOLATILITY UNDER COVID-19: A TIME-VARYING PARAMETER VECTOR AUTOREGRESSION APPROACH. *The Singapore Economic Review* 13, 1-32. [[Crossref](#)]
131. Scott Fung, Shih-Chuan Tsai. 2021. The price discovery role of day traders in futures market: Evidence from different types of day traders. *Journal of Empirical Finance* 64, 53-77. [[Crossref](#)]
132. Shashank Kathpal, Asif Akhtar, Asma Zaheer, Mohd Naved Khan. 2021. Covid-19 and heuristic biases: evidence from India. *Journal of Financial Services Marketing* 26:4, 305-316. [[Crossref](#)]
133. Stefan Ritschel, Andrey G Cherstvy, Ralf Metzler. 2021. Universality of delay-time averages for financial time series: analytical results, computer simulations, and analysis of historical stock-market prices. *Journal of Physics: Complexity* 2:4, 045003. [[Crossref](#)]
134. Elzbieta Kacperska, Jakub Kraciuk. 2021. Changes in the Stock Market of Food Industry Companies during the COVID-19 Pandemic—A Comparative Analysis of Poland and Germany. *Energies* 14:23, 7886. [[Crossref](#)]
135. Budi Setiawan, Marwa Ben Abdallah, Maria Fekete-Farkas, Robert Jeyakumar Nathan, Zoltan Zeman. 2021. GARCH (1,1) Models and Analysis of Stock Market Turmoil during COVID-19 Outbreak in an Emerging and Developed Economy. *Journal of Risk and Financial Management* 14:12, 576. [[Crossref](#)]
136. Jean-Yves Juban. Chapitre 9. Quelle gouvernance pour plus de démocratie dans les entreprises ? 186-203. [[Crossref](#)]
137. B.C. Barroso, R.T.N. Cardoso, M.K. Melo. 2021. Performance analysis of the integration between Portfolio Optimization and Technical Analysis strategies in the Brazilian stock market. *Expert Systems with Applications* 186, 115687. [[Crossref](#)]
138. Giovanni Ferri, Matteo Ploner, Matteo Rizzolli. 2021. Trading fast and slow: The role of deliberation in experimental financial markets. *Journal of Behavioral and Experimental Finance* 32, 100593. [[Crossref](#)]
139. Wajid Shakeel Ahmed, Muhammad Shoaib Khan, Muhammad Jibrán Sheikh, Inzamam Khan. 2021. Excess volatility pursuit in autoregressive GARCH model based panel data analysis at country level: BRICS context. *International Journal of Emerging Markets* 120. . [[Crossref](#)]
140. Qingyuan Han, Steve Keen. 2021. Aggregate excess demand on wall street. *Heliyon* 7:11, e08355. [[Crossref](#)]
141. Sergio Consoli, Luca Tiozzo Pezzoli, Elisa Tosetti. 2021. Emotions in macroeconomic news and their impact on the European bond market. *Journal of International Money and Finance* 118, 102472. [[Crossref](#)]
142. Dushmanta Kumar Padhi, Neelamadhab Padhy, Akash Kumar Bhoi, Jana Shafi, Muhammad Fazal Ijaz. 2021. A Fusion Framework for Forecasting Financial Market Direction Using Enhanced Ensemble Models and Technical Indicators. *Mathematics* 9:21, 2646. [[Crossref](#)]
143. Filippo Gusella, Engelbert Stockhammer. 2021. Testing fundamentalist–momentum trader financial cycles: An empirical analysis via the Kalman filter. *Metron* 72:4, 758-797. [[Crossref](#)]
144. Shalini Talwar, Manish Talwar, Visa Tarjanne, Amandeep Dhir. 2021. Why retail investors traded equity during the pandemic? An application of artificial neural networks to examine behavioral biases. *Psychology & Marketing* 38:11, 2142-2163. [[Crossref](#)]

145. Haytem Troug, Matt Murray. 2021. Crisis determination and financial contagion: an analysis of the Hong Kong and Tokyo stock markets using an MSBVAR approach. *Journal of Economic Studies* 48:8, 1548-1572. [[Crossref](#)]
146. Kaixin Wangzhou, Mahnoor Khan, Sajjad Hussain, Muhammad Ishfaq, Rabia Farooqi. 2021. Effect of Regret Aversion and Information Cascade on Investment Decisions in the Real Estate Sector: The Mediating Role of Risk Perception and the Moderating Effect of Financial Literacy. *Frontiers in Psychology* 12. . [[Crossref](#)]
147. David Bourghelle, Philippe Rozin. Collective Affects and Speculative Bubbles in Financial Markets: A Spinozist Perspective 225-244. [[Crossref](#)]
148. Kobana Abukari, Erin Oldford, Neal Willcott. 2021. Student-managed investment funds: a review and research agenda. *Managerial Finance* 47:11, 1608-1635. [[Crossref](#)]
149. Huawen Ma, Jixin Ma, Han Wang, Pengsheng Li, Wencai Du. A Comprehensive Review of Investor Sentiment Analysis in Stock Price Forecasting 264-268. [[Crossref](#)]
150. Wan-Yi Chiu. 2021. Mean-variance hedging in the presence of estimation risk. *Review of Derivatives Research* 24:3, 221-241. [[Crossref](#)]
151. Mahmoud Hijjawi, Chyi Lin Lee, Jufri Marzuki. 2021. CEO Overconfidence and Corporate Governance in Affecting Australian Listed Construction and Property Firms' Trading Activity. *Sustainability* 13:19, 10920. [[Crossref](#)]
152. Khalid Khan, Chi-Wei Su, Ashfaq U. Rehman. 2021. Do multiple bubbles exist in coal price?. *Resources Policy* 73, 102232. [[Crossref](#)]
153. Jasman Tuyon, Zamri Ahmad. 2021. Dynamic risk attributes in Malaysia stock markets: Behavioural finance insights. *International Journal of Finance & Economics* 26:4, 5793-5814. [[Crossref](#)]
154. Emie Famieza Zainudin, Hafiza Aishah Hashim, Shahnaz Ismail. 2021. The effect of the imposition of a public reprimand on the stock price of companies in Malaysia. *Journal of Financial Crime* 28:4, 1232-1243. [[Crossref](#)]
155. Ramashanti Naik, Y. V. Reddy. 2021. Examination of Long Memory in Indian Stock Market: A Sectoral Juxtaposition. *FIIB Business Review* 60, 231971452110402. [[Crossref](#)]
156. J E Woods. 2021. The safety of speculation *Cambridge Journal of Economics* 45:5, 1069-1097. [[Crossref](#)]
157. Janusz Sobieraj, Dominik Metelski. 2021. Testing Housing Markets for Episodes of Exuberance: Evidence from Different Polish Cities. *Journal of Risk and Financial Management* 14:9, 412. [[Crossref](#)]
158. Wesley Oliphant, Hong Ma. 2021. Applying Behavioral Economics to microcredit in China's rural areas. *Journal of Behavioral and Experimental Finance* 31, 100555. [[Crossref](#)]
159. Matt Pinnuck, Kevin Stevenson. 2021. Enhancing the Interface between Standard-setters and Academic Research. *Australian Accounting Review* 31:3, 169-185. [[Crossref](#)]
160. Marcin Rzeszutek, Antoine Godin, Adam Szyszka, Stanislas Augier. 2021. Managerial overconfidence in capital structure decisions and its link to aggregate demand: An agent-based model perspective. *PLOS ONE* 16:8, e0255537. [[Crossref](#)]
161. Daniel Penido de Lima Amorim, Marcos Antônio de Camargos. 2021. Mean reversion in a price-earnings ratio and under / overvaluation in the Brazilian stock market. *Revista Contabilidade & Finanças* 32:86, 301-313. [[Crossref](#)]
162. Alexander Quaicoe, Paul Quaisie Eleke-Aboagye. 2021. Behavioral factors affecting investment decision-making in bank stocks on the Ghana stock exchange. *Qualitative Research in Financial Markets* 13:4, 425-439. [[Crossref](#)]
163. David Peón, Manel Antelo. 2021. The effect of behavioral biases on financial decisions. *Revista Estrategia Organizacional* 10:2. . [[Crossref](#)]

164. Thorsten Polleit. 2021. Modern Financial Market Theory – A Critique Based on the Logic of Human Action. *Credit and Capital Markets – Kredit und Kapital* 54:3, 447-467. [[Crossref](#)]
165. Mariia Bondarenko, Karel Brůna. 2021. The Impact of FX Exposure on the Firm's Stock Market Return. *European Financial and Accounting Journal* 16:1, 45-70. [[Crossref](#)]
166. Aleksandra Rutkowska, Agata Kliber. 2021. Say anything you want about me if you spell my name right: the effect of Internet searches on financial market. *Central European Journal of Operations Research* 29:2, 633-664. [[Crossref](#)]
167. Traianos-Ioannis Theodorou, Alexandros Zamichos, Michalis Skoumperdis, Anna Kougioumtzidou, Kalliopi Tsolaki, Dimitris Papadopoulos, Thanasis Patsios, George Papanikolaou, Athanasios Konstantinidis, Anastasios Drosou, Dimitrios Tzovaras. 2021. An AI-Enabled Stock Prediction Platform Combining News and Social Sensing with Financial Statements. *Future Internet* 13:6, 138. [[Crossref](#)]
168. Christopher R. Stephens, Harald A. Benink, José Luís Gordillo, Juan Pablo Pardo-Guerra. 2021. A New Measure of Market Inefficiency. *Journal of Risk and Financial Management* 14:6, 263. [[Crossref](#)]
169. Khalid Khan, Chi-Wei Su, Muhammad Umar, Xiao-Guang Yue. 2021. Do crude oil price bubbles occur?. *Resources Policy* 71, 101936. [[Crossref](#)]
170. Stephanos Papadamou, Nikolaos A. Kyriazis, Panayiotis Tzeremes, Shaen Corbet. 2021. Herding behaviour and price convergence clubs in cryptocurrencies during bull and bear markets. *Journal of Behavioral and Experimental Finance* 30, 100469. [[Crossref](#)]
171. Domonkos F. Vamossy. 2021. Investor emotions and earnings announcements. *Journal of Behavioral and Experimental Finance* 30, 100474. [[Crossref](#)]
172. Justyna Brzezicka. 2021. Towards a Typology of Housing Price Bubbles: A Literature Review. *Housing, Theory and Society* 38:3, 320-342. [[Crossref](#)]
173. Justinas Lubys, Pradiptarathi Panda. 2021. US and EU unconventional monetary policy spillover on BRICS financial markets: an event study. *Empirica* 48:2, 353-371. [[Crossref](#)]
174. Hasan Arda BURHAN, Eylem ACAR. 2021. Adaptive Market Hypothesis and Return Predictability: A Hidden Markov Model Application in Borsa Istanbul. *Sosyoekonomi* 29:48, 31-58. [[Crossref](#)]
175. Mirre Stallen, Nicholas Borg, Brian Knutson. 2021. Brain Activity Foreshadows Stock Price Dynamics. *The Journal of Neuroscience* 41:14, 3266-3274. [[Crossref](#)]
176. Evangelos Vasileiou. 2021. Are Markets Efficient? A Quantum Mechanics View. *Journal of Behavioral Finance* 22:2, 214-220. [[Crossref](#)]
177. Alessandra Cretarola, Gianna Figà-Talamanca. 2021. Detecting bubbles in Bitcoin price dynamics via market exuberance. *Annals of Operations Research* 299:1-2, 459-479. [[Crossref](#)]
178. Jyothi E. Singh, Vajjanath Babshetti, H.N. Shivaprasad. 2021. Efficient Market Hypothesis to Behavioral Finance: A Review of Rationality to Irrationality. *Materials Today: Proceedings* 48. . [[Crossref](#)]
179. Rafiq Ahmed, Syed Tehseen Jawaid, Samina Khalil. 2021. Bubble Detection in Housing Market: Evidence From a Developing Country. *SAGE Open* 11:2, 215824402110066. [[Crossref](#)]
180. GABRIEL VILELA RESENDE FREITAS. 2021. Narrative Economics and Behavioral Economics: contributions to the behavioral insights on post-Keynesian theory. *Brazilian Journal of Political Economy* 41:2, 372-384. [[Crossref](#)]
181. Fernanda Holdorf Lopez, Wlademir Ribeiro Prates, Vanessa Martins Valcanover, Newton Carneiro Affonso da Costa Jr.. 2021. EFEITO DISPOSIÇÃO EM INVESTIMENTOS: INVESTIDORES INDIVIDUAIS E INSTITUCIONAIS AGEM DE MANEIRA DIFERENTE?. *REAd. Revista Eletrônica de Administração (Porto Alegre)* 27:1, 210-231. [[Crossref](#)]

182. Bernardina Algieri. 2021. Fast & furious: Do psychological and legal factors affect commodity price volatility?. *The World Economy* 44:4, 980-1017. [[Crossref](#)]
183. Abootaleb Shirvani, Svetlozar T. Rachev, Frank J. Fabozzi. 2021. Multiple subordinated modeling of asset returns: Implications for option pricing. *Econometric Reviews* 40:3, 290-319. [[Crossref](#)]
184. Tihana Škrinjarić, Zrinka Lovretin Golubić, Zrinka Orlović. 2021. Empirical analysis of dynamic spillovers between exchange rate return, return volatility and investor sentiment. *Studies in Economics and Finance* 38:1, 86-113. [[Crossref](#)]
185. Léo Touzo, Matteo Marsili, Don Zagier. 2021. Information thermodynamics of financial markets: the Glasten–Milgrom model. *Journal of Statistical Mechanics: Theory and Experiment* 2021:3, 033407. [[Crossref](#)]
186. Sajid Mohy Ul Din, Shabra Khalid Mehmood, Arfan Shahzad, Israr Ahmad, Alla Davidyants, Ayman Abu-Rumman. 2021. The Impact of Behavioral Biases on Herding Behavior of Investors in Islamic Financial Products. *Frontiers in Psychology* 11. . [[Crossref](#)]
187. Eray GEMİCİ. 2021. ADAPTİF PİYASA HİPOTEZİNİN ASYA – PASİFİK ÜLKELERİNDE TEST EDİLMESİ. *Finansal Araştırmalar ve Çalışmalar Dergisi* 13:24, 129-142. [[Crossref](#)]
188. Joseph Bamidele Awotunde, Roseline Oluwaseun Ogundokun, Rasheed Gbenga Jimoh, Sanjay Misra, Taye Oladele Aro. Machine Learning Algorithm for Cryptocurrencies Price Prediction 421-447. [[Crossref](#)]
189. Thi-Hong-Phuong Vu, Chu-Shiu Li, Chwen-Chi Liu. 2021. Effects of the financial crisis on household financial risky assets holdings: Empirical evidence from Europe. *International Review of Economics & Finance* 71, 342-358. [[Crossref](#)]
190. Sangcheol Song, Yuping Zeng, Bing Zhou. 2021. Information asymmetry, cross-listing, and post-M&A performance. *Journal of Business Research* 122, 447-457. [[Crossref](#)]
191. Christophre Georges, Javier Pereira. 2021. Market stability with machine learning agents. *Journal of Economic Dynamics and Control* 122, 104032. [[Crossref](#)]
192. J.F. Calzadilla, M.J. Bordonado-Bermejo, E. González-Rodrigo. 2021. A systematic review of ordinary people, behavioural financial biases. *Economic Research-Ekonomska Istraživanja* 34:1, 2767-2789. [[Crossref](#)]
193. Xindan Li, Avanidhar Subrahmanyam, Xuewei Yang. 2021. Winners, Losers, and Regulators in a Derivatives Market Bubble. *The Review of Financial Studies* 34:1, 313-350. [[Crossref](#)]
194. Tatja Karkkainen. 2021. The Role of Technology and Network Externalities in the Long-Term Performance of ICOs. *SSRN Electronic Journal* 21. . [[Crossref](#)]
195. Paweł Mielcarz, Dmytro Osiihuk, Jarosław Cymerski. 2021. Algorithmic Sangfroid? The Decline of Sensitivity of Crude Oil Prices to News on Potentially Disruptive Terror Attacks and Political Unrest. *Sustainability* 13:1, 52. [[Crossref](#)]
196. Andrea Afify, Hector Eduardo Roman. 2021. Estimating market index valuation from macroeconomic trends. *Quantitative Finance and Economics* 5:2, 287-310. [[Crossref](#)]
197. Larissa Batrancea. Stock Market Price and Company Performance Between Two Major Downturns 270-290. [[Crossref](#)]
198. Yavuz Bilgin, Selin Metin Camgoz, Mehmet Baha Karan, Yilmaz Yildiz. Understanding the Investment Behavior of Individual Investors 21-39. [[Crossref](#)]
199. Fakhraddin Akhmedov, Mhd Zeitoun, Humssi Al. 2021. Financial engineering to optimize risk management in banks based on Interest Rate Swaps to better hedge the exposure to interest rate fluctuations the case of banks in Syria. *International Review* :1-2, 99-107. [[Crossref](#)]
200. Panayiotis C. Andreou, Neophytos Lambertides, Marina Magidou. 2021. Stock Price Crash Risk: A Critique of the Agency Theory Viewpoint. *SSRN Electronic Journal* 28. . [[Crossref](#)]

201. Hubert Dichtl, Wolfgang Drobetz, Tizian Otto. 2021. Forecasting Market Crashes via Machine Learning: Evidence from European Stock Markets. *SSRN Electronic Journal* **27**. . [[Crossref](#)]
202. Sergei Belkov, Igor V. Evstigneev, Thorsten Hens. 2020. An evolutionary finance model with a risk-free asset. *Annals of Finance* **16**:4, 593-607. [[Crossref](#)]
203. Igor Evstigneev, Thorsten Hens, Valeriya Potapova, Klaus R. Schenk-Hoppé. 2020. Behavioral equilibrium and evolutionary dynamics in asset markets. *Journal of Mathematical Economics* **91**, 121-135. [[Crossref](#)]
204. Indaco Biazzo, Abolfazl Ramezanzpour. 2020. Efficiency and irreversibility of movements in a city. *Scientific Reports* **10**:1. . [[Crossref](#)]
205. mohammad tohidi. 2020. Measuring the Effect of Noise Trading on Bubbles in Tehran Stock Exchange. *Journal of Economic Modeling Research* **11**:42, 51-81. [[Crossref](#)]
206. Hee Jin Kim, Ji Sun Hong, Hyun Chan Hwang, Sun Mi Kim, Doug Hyun Han. 2020. Comparison of Psychological Status and Investment Style Between Bitcoin Investors and Share Investors. *Frontiers in Psychology* **11**. . [[Crossref](#)]
207. Patrick Bayer, Christopher Geissler, Kyle Mangum, James W Roberts. 2020. Speculators and Middlemen: The Strategy and Performance of Investors in the Housing Market. *The Review of Financial Studies* **33**:11, 5212-5247. [[Crossref](#)]
208. Evgeny Lyandres, Egor Matveyev, Alexei Zhdanov. 2020. Does the Market Correctly Value Investment Options?*. *Review of Finance* **24**:6, 1159-1201. [[Crossref](#)]
209. Chao Liang, Linchun Tang, Yan Li, Yu Wei. 2020. Which sentiment index is more informative to forecast stock market volatility? Evidence from China. *International Review of Financial Analysis* **71**, 101552. [[Crossref](#)]
210. Daniel Penido de Lima Amorim, Marcos Antônio de Camargos, Aureliano Angel Bressan. 2020. Mean Reversion of the Ibovespa Price-Earnings Ratios. *Latin American Business Review* **21**:4, 327-352. [[Crossref](#)]
211. Nicholas Mangee, Michael D. Goldberg. 2020. A Cointegrated VAR Analysis of Stock Price Models: Fundamentals, Psychology and Structural Change. *Journal of Behavioral Finance* **21**:4, 352-368. [[Crossref](#)]
212. Khalid Khan, Sinem Derindere Köseoğlu. 2020. Is palladium price in bubble?. *Resources Policy* **68**, 101780. [[Crossref](#)]
213. Ahmed Bouteska. Tunisian Revolution and Herd Behavior: Empirical Evidence from the Tunisia Stock Exchange 185-199. [[Crossref](#)]
214. Darren Duxbury, Tommy Gärling, Amelie Gamble, Vian Klass. 2020. How emotions influence behavior in financial markets: a conceptual analysis and emotion-based account of buy-sell preferences. *The European Journal of Finance* **26**:14, 1417-1438. [[Crossref](#)]
215. Fabio Della Rossa, Lorenzo Giannini, Pietro DeLellis. 2020. Herding or wisdom of the crowd? Controlling efficiency in a partially rational financial market. *PLOS ONE* **15**:9, e0239132. [[Crossref](#)]
216. Óscar V. De la Torre Torres. 2020. Noticias del COVID-19 y contagio de volatilidad en la Bolsa Mexicana de Valores. *Contaduría y Administración* **65**:5, 220. [[Crossref](#)]
217. Yuan Hu, Abootaleb Shirvani, Stoyan Stoyanov, Young Shin Kim, Frank J. Fabozzi, Svetlozar T. Rachev. 2020. OPTION PRICING IN MARKET'S WITH INFORMED TRADERS. *International Journal of Theoretical and Applied Finance* **23**:06, 2050037. [[Crossref](#)]
218. Jessie Poon, Yew Wah Chow, Michael Ewers, Razli Ramli. 2020. The Role of Skills in Islamic Financial Innovation: Evidence from Bahrain and Malaysia. *Journal of Open Innovation: Technology, Market, and Complexity* **6**:3, 47. [[Crossref](#)]

219. Venkata Narasimha Chary Mushinada, Venkata Subrahmanya Sarma Veluri. 2020. Self-attribution, Overconfidence and Dynamic Market Volatility in Indian Stock Market. *Global Business Review* **21**:4, 970-989. [[Crossref](#)]
220. Joseph S. Harrison, Gary R. Thurgood, Steven Boivie, Michael D. Pfarrer. 2020. Perception Is Reality: How CEOs' Observed Personality Influences Market Perceptions of Firm Risk and Shareholder Returns. *Academy of Management Journal* **63**:4, 1166-1195. [[Crossref](#)]
221. Yingyi Hu, Tiao Zhao, Lin Zhang. 2020. Noise trading, institutional trading, and opinion divergence: Evidence on intraday data in the Chinese stock market. *International Review of Economics & Finance* **68**, 74-89. [[Crossref](#)]
222. Erekle Pirveli. 2020. Earnings persistence and predictability within the emerging economy of Georgia. *Journal of Financial Reporting and Accounting* **18**:3, 563-589. [[Crossref](#)]
223. Nadia Ameli, Paul Drummond, Alexander Bisaro, Michael Grubb, Hugues Chenet. 2020. Climate finance and disclosure for institutional investors: why transparency is not enough. *Climatic Change* **160**:4, 565-589. [[Crossref](#)]
224. I. Kondrat, N. Yaroshevych, M. Lyvdar, R. Drala. 2020. EVALUATING CRYPTO PORTFOLIO PERFORMANCE. *Journal of Lviv Polytechnic National University. Series of Economics and Management Issues* **4**:1, 11-21. [[Crossref](#)]
225. Jessica Paule-Vianez, Raúl Gómez-Martínez, Camilo Prado-Román. 2020. A bibliometric analysis of behavioural finance with mapping analysis tools. *European Research on Management and Business Economics* **26**:2, 71-77. [[Crossref](#)]
226. Jan Viebig. 2020. Exuberance in Financial Markets: Evidence from Machine Learning Algorithms. *Journal of Behavioral Finance* **21**:2, 128-135. [[Crossref](#)]
227. Christopher Thiem. 2020. Cross-Category, Trans-Pacific Spillovers of Policy Uncertainty and Financial Market Volatility. *Open Economies Review* **31**:2, 317-342. [[Crossref](#)]
228. Yuri Biondi, Simone Righi. 2020. Much ado about making money: the impact of disclosure, news and rumors on the formation of security market prices over time. *Journal of Economic Interaction and Coordination* **15**:2, 333-362. [[Crossref](#)]
229. Alex Plastun, Xolani Sibande, Rangan Gupta, Mark E. Wohar. 2020. Historical evolution of monthly anomalies in international stock markets. *Research in International Business and Finance* **52**, 101127. [[Crossref](#)]
230. Hind Bourezk, Amine Raji, Nawfal Acha, Hafid Barka. Analyzing Moroccan Stock Market using Machine Learning and Sentiment Analysis 1-5. [[Crossref](#)]
231. BEN VAN VLIET. 2020. A BEHAVIOURAL APPROACH TO THE LEAN STARTUP/ MINIMUM VIABLE PRODUCT PROCESS: THE CASE OF ALGORITHMIC FINANCIAL SYSTEMS. *International Journal of Innovation Management* **24**:03, 2050029. [[Crossref](#)]
232. Werner Gleißner, Cay Oertel. 2020. Conceptual framework for real estate transactions. *Journal of Property Investment & Finance* **38**:3, 245-262. [[Crossref](#)]
233. Venkata Narasimha Chary Mushinada. 2020. How do investors behave in the context of a market crash? Evidence from India. *International Journal of Emerging Markets* **15**:6, 1201-1217. [[Crossref](#)]
234. Li-Kai Liao, Yu-Wei Fan, Ming-Hsin Shih. 2020. What drives social responsibility indices returns? Macroeconomics matters. *Corporate Social Responsibility and Environmental Management* **27**:2, 514-524. [[Crossref](#)]
235. Denis Cormier, Luania Gomez Gutierrez, Michel Magnan. 2020. Market enforcement under different legal regimes: a comparison of France and Canada. *Journal of Management and Governance* **24**:1, 37-61. [[Crossref](#)]

236. Giancarlo Giudici, Alistair Milne, Dmitri Vinogradov. 2020. Cryptocurrencies: market analysis and perspectives. *Journal of Industrial and Business Economics* 47:1, 1-18. [[Crossref](#)]
237. Venkata Narasimha Chary Mushinada. 2020. Are individual investors irrational or adaptive to market dynamics?. *Journal of Behavioral and Experimental Finance* 25, 100243. [[Crossref](#)]
238. Jianfeng Guo, Xuemei Zhang, Fu Gu, Hanqi Zhang, Ying Fan. 2020. Does air pollution stimulate electric vehicle sales? Empirical evidence from twenty major cities in China. *Journal of Cleaner Production* 249, 119372. [[Crossref](#)]
239. Kin-Boon Tang, Shao-Jye Wong, Shih-Kuei Lin, Szu-Lang Liao. 2020. Excess volatility and market efficiency in government bond markets: the ASEAN-5 context. *Journal of Asset Management* 21:2, 154-165. [[Crossref](#)]
240. Kai-Yin Woo, Chulin Mai, Michael McAleer, Wing-Keung Wong. 2020. Review on Efficiency and Anomalies in Stock Markets. *Economies* 8:1, 20. [[Crossref](#)]
241. Radu T. Pruna, Maria Polukarov, Nicholas R. Jennings. 2020. Loss aversion in an agent-based asset pricing model. *Quantitative Finance* 20:2, 275-290. [[Crossref](#)]
242. Maria Teresa V. D. Alves. 2020. Do Accounting and Finance Master's Students Apply Prospect Theory?. *Revista CEA* 6:11, 45-69. [[Crossref](#)]
243. Xin Wang, Tao Sun, Zhi Liu. 2020. Kernel-Based Aggregating Learning System for Online Portfolio Optimization. *Mathematical Problems in Engineering* 2020, 1-14. [[Crossref](#)]
244. Barbara Batóg, Iwona Forys. Structural Changes on Polish Housing Market: Has the Market Returned to the Level Before the Crisis? 55-69. [[Crossref](#)]
245. Birger P. Priddat. Zuviel Vertrauen? 953-962. [[Crossref](#)]
246. Rosario N. Mantegna. Clusters of Traders in Financial Markets 203-212. [[Crossref](#)]
247. Francesca Molinari. Microeconometrics with partial identification 355-486. [[Crossref](#)]
248. Min Teng, Xubiao He. 2020. Air quality levels, environmental awareness and investor trading behavior: Evidence from stock market in China. *Journal of Cleaner Production* 244, 118663. [[Crossref](#)]
249. M. Ángeles López-Cabarcos, Ada M. Pérez-Pico, Paula Vázquez-Rodríguez, M. Luisa López-Pérez. 2020. Investor sentiment in the theoretical field of behavioural finance. *Economic Research-Ekonomiska Istraživanja* 33:1, 2101-2119. [[Crossref](#)]
250. Binghui Wu. 2020. Investor Behavior and Risk Contagion in an Information-Based Artificial Stock Market. *IEEE Access* 8, 126725-126732. [[Crossref](#)]
251. Maryse Farhi, Daniela Magalhães Prates. 2020. CARDIM DE CARVALHO'S CONTRIBUTION TO THE UNDERSTANDING OF DECISION MAKING IN CONTEMPORANEOUS FINANCIAL MARKETS. *Revista de Economia Contemporânea* 24:2. . [[Crossref](#)]
252. Igor V. Evstigneev, Thorsten Hens, Valeriya Potapova, Klaus Reiner Schenk-Hoppé. 2020. Behavioral Equilibrium and Evolutionary Dynamics in Asset Markets. *SSRN Electronic Journal* . [[Crossref](#)]
253. Maggie Rong Hu, Xiaoyang Li, Yang Shi, Xiaoquan (Michael) Zhang. 2020. Are All Heuristics Created Equal? Evidence from P2P Investments. *SSRN Electronic Journal* . [[Crossref](#)]
254. Donia Aloui, Stephane Goutte, Khaled Guesmi, Rafla Hchaichi. 2020. COVID 19's Impact on Crude Oil and Natural Gas S&p Gs Indexes. *SSRN Electronic Journal* . [[Crossref](#)]
255. Tanmay Bansal. 2020. Behavioral Finance and COVID-19: Cognitive Errors that Determine the Financial Future. *SSRN Electronic Journal* . [[Crossref](#)]
256. Domonkos F. Vamossy. 2020. Investor Emotions and Earnings Announcements. *SSRN Electronic Journal* . [[Crossref](#)]
257. Simon Straumann. 2020. Obfuscation through Complexity: Evidence from the Market for Retail Financial Products. *SSRN Electronic Journal* . [[Crossref](#)]

258. Vladimir Kruglyak. 2020. A Critical Analysis of Legal Implications for the Executive Remuneration. *SSRN Electronic Journal* . [[Crossref](#)]
259. Paulo Ferreira, Luís Carlos Loures. 2020. An Econophysics Study of the S&P Global Clean Energy Index. *Sustainability* **12**:2, 662. [[Crossref](#)]
260. Yavuz Bilgin, Selin Metin Camgoz, Mehmet Baha Karan, Yilmaz Yildiz. Understanding the Investment Behavior of Individual Investors 228-246. [[Crossref](#)]
261. Zareen Zafar, Danish Ahmed Siddiqui. 2020. Behavioral Finance Perspectives on Pakistan Stock Market Efficiency: Assessing the Prospect Theory Empirically Using Adaptive Pattern of Efficiency across Military and Democratic Phases. *SSRN Electronic Journal* **2** . [[Crossref](#)]
262. Fabrice Hervé, Mohamed Zouaoui, Bertrand Belvaux. 2019. Noise traders and smart money: Evidence from online searches. *Economic Modelling* **83**, 141-149. [[Crossref](#)]
263. Josef Hollmayr, Michael Kühl. 2019. Learning about banks' net worth and the slow recovery after the financial crisis. *Journal of Economic Dynamics and Control* **109**, 103776. [[Crossref](#)]
264. Julia K. de Groote, Ingo Kleindienst, Martin Hoegl, Denis Schweizer, Tomi Laamanen. 2019. Similarity perceptions in investor reactions to acquisition announcements. *Long Range Planning* **43**, 101946. [[Crossref](#)]
265. Madhuri Prabhala, Indranil Bose. Do Emotions Determine Rumors and Impact the Financial Market? The Case of Demonetization in India 219-223. [[Crossref](#)]
266. Neluka Devpura, Paresch Kumar Narayan, Susan Sunila Sharma. 2019. Structural instability and predictability. *Journal of International Financial Markets, Institutions and Money* **63**, 101145. [[Crossref](#)]
267. Dimitri Kroujiline, Maxim Gusev, Dmitry Ushanov, Sergey V. Sharov, Boris Govorkov. 2019. An endogenous mechanism of business cycles. *Algorithmic Finance* **59**, 1-22. [[Crossref](#)]
268. Nadine Strauss, Christopher Holmes Smith. 2019. Buying on rumors: how financial news flows affect the share price of Tesla. *Corporate Communications: An International Journal* **24**:4, 593-607. [[Crossref](#)]
269. Ana Lorena Jiménez Preciado, Salvador Cruz Aké, César Gurrola Ríos. 2019. HUELUM Trading System: A Low-Frequency Algorithm Proposal. *Revista Mexicana de Economía y Finanzas* **14**:4, 651-669. [[Crossref](#)]
270. Haritha P.H., Rashmi Uchil. 2019. Impact of investor sentiment on decision-making in Indian stock market: an empirical analysis. *Journal of Advances in Management Research* **17**:1, 66-83. [[Crossref](#)]
271. Huanhuan Zheng, Haiqiang Chen. 2019. Price informativeness and adaptive trading. *Journal of Evolutionary Economics* **29**:4, 1315-1342. [[Crossref](#)]
272. Wahbeeah Mohti, Andreia Dionísio, Paulo Ferreira, Isabel Vieira. 2019. Frontier markets' efficiency: mutual information and detrended fluctuation analyses. *Journal of Economic Interaction and Coordination* **14**:3, 551-572. [[Crossref](#)]
273. Hai-Chuan Xu, Wei Zhang, Xiong Xiong, Xue Wang, Wei-Xing Zhou. 2019. The double-edged role of social learning: Flash crash and lower total volatility. *Journal of Economic Behavior & Organization* **71** . [[Crossref](#)]
274. Ingrid Kubin, Thomas O. Zörner, Laura Gardini, Pasquale Commendatore. 2019. A credit cycle model with market sentiments. *Structural Change and Economic Dynamics* **50**, 159-174. [[Crossref](#)]
275. Xiaojin Sun, Kwok Ping Tsang. 2019. Large price movements in housing markets. *Journal of Economic Behavior & Organization* **163**, 1-23. [[Crossref](#)]
276. Alex Plastun, Xolani Sibande, Rangan Gupta, Mark E. Wohar. 2019. Rise and fall of calendar anomalies over a century. *The North American Journal of Economics and Finance* **49**, 181-205. [[Crossref](#)]

277. Thomas Renault. 2019. L'apport du Big Data (Mégadonnée) et des nouvelles données de la recherche en finance. *Vie & sciences de l'entreprise* N° 206:2, 9-19. [[Crossref](#)]
278. Thomas Holtfort. 2019. From standard to evolutionary finance: a literature survey. *Management Review Quarterly* 69:2, 207-232. [[Crossref](#)]
279. Torsten Trimborn. 2019. A macroscopic portfolio model: from rational agents to bounded rationality. *Mathematics and Financial Economics* 13:3, 491-518. [[Crossref](#)]
280. Bruno Figlioli, Fabiano Guasti Lima. 2019. Stock pricing in Latin America: The synchronicity effect. *Emerging Markets Review* 39, 1-17. [[Crossref](#)]
281. Qianwei Ying, Tahir Yousaf, Qurat ul Ain, Yasmeen Akhtar, Muhammad Shahid Rasheed. 2019. Stock Investment and Excess Returns: A Critical Review in the Light of the Efficient Market Hypothesis. *Journal of Risk and Financial Management* 12:2, 97. [[Crossref](#)]
282. Ashok Chanabasangouda Patil, Shailesh Rastogi. 2019. Time-Varying Price–Volume Relationship and Adaptive Market Efficiency: A Survey of the Empirical Literature. *Journal of Risk and Financial Management* 12:2, 105. [[Crossref](#)]
283. Aditya Sharma, Arya Kumar. 2019. A review paper on behavioral finance: study of emerging trends. *Qualitative Research in Financial Markets* 12:2, 137-157. [[Crossref](#)]
284. Riza Demirer, Guilherme Demos, Rangan Gupta, Didier Sornette. 2019. On the predictability of stock market bubbles: evidence from LPPLS confidence multi-scale indicators. *Quantitative Finance* 19:5, 843-858. [[Crossref](#)]
285. Johan Brännmark. 2019. Regulating Compensatory Paternalism. *Res Publica* 25:2, 167-185. [[Crossref](#)]
286. Xue-Zhong He, Youwei Li, Min Zheng. 2019. Heterogeneous agent models in financial markets: A nonlinear dynamics approach. *International Review of Financial Analysis* 62, 135-149. [[Crossref](#)]
287. Rui Ren, Desheng Dash Wu, Tianxiang Liu. 2019. Forecasting Stock Market Movement Direction Using Sentiment Analysis and Support Vector Machine. *IEEE Systems Journal* 13:1, 760-770. [[Crossref](#)]
288. Sulaiman Al-Jassar. 2019. Fundamental and Technical Trading in the Emerging Market of an Oil-Based Economy. *Review of Pacific Basin Financial Markets and Policies* 22:01, 1950006. [[Crossref](#)]
289. José Bonifácio de Araújo Júnior, Otávio Ribeiro de Medeiros, Olavo Venturim Caldas, César Augusto Tibúrcio Silva. 2019. Misvaluation and behavioral bias in the Brazilian stock market. *Revista Contabilidade & Finanças* 30:79, 107-122. [[Crossref](#)]
290. Thomas Delcey. 2019. Samuelson vs Fama on the Efficient Market Hypothesis: The Point of View of Expertise. *OEconomia* :9-1, 37-58. [[Crossref](#)]
291. Emanuel Adler. *World Ordering* 36, . [[Crossref](#)]
292. Katarina Valaskova, Viera Bartosova, Pavol Kubala. 2019. Behavioural Aspects of the Financial Decision-Making. *Organizacija* 52:1, 22-31. [[Crossref](#)]
293. Daniel Fonseca Costa, Francisval de Melo Carvalho, Bruno César de Melo Moreira. 2019. BEHAVIORAL ECONOMICS AND BEHAVIORAL FINANCE: A BIBLIOMETRIC ANALYSIS OF THE SCIENTIFIC FIELDS. *Journal of Economic Surveys* 33:1, 3-24. [[Crossref](#)]
294. H. Kent Baker, Satish Kumar, Nisha Goyal, Vidhu Gaur. 2019. How financial literacy and demographic variables relate to behavioral biases. *Managerial Finance* 45:1, 124-146. [[Crossref](#)]
295. Paulo Vitor Jordão da Gama Silva, Jordana Brandalise Santos, Gabrielle Portes Pereira. 2019. Behavioral Finance in Brazil: A Bibliometric Study from 2007 to 2017. *Latin American Business Review* 20:1, 61-82. [[Crossref](#)]
296. Antoni Wilinski, Patryk Matuszak. An Investment Strategy Using Temporary Changes in the Behavior of the Observed Group of Investors 98-106. [[Crossref](#)]

297. Henry Schäfer. A “Selfie” of Finance and Ethics 5-26. [[Crossref](#)]
298. S. Niggol Seo. The Microbehavioral Economic Models of Adaptation Behaviors to Global Warming 67-104. [[Crossref](#)]
299. Alessandro Vercelli. Finance and Macroeconomics 93-116. [[Crossref](#)]
300. Maximilian Müller, Marion Pester. Passive Anlagestrategien und Digitalisierung in der Vermögensverwaltung 227-246. [[Crossref](#)]
301. Raj S. Dhankar. Adaptive Markets Hypothesis 293-305. [[Crossref](#)]
302. Raj S. Dhankar. Market Efficiency and Stock Market 131-151. [[Crossref](#)]
303. Bikesh Raj Upreti, Philipp Martin Back, Pekka Malo, Oskar Ahlgren, Ankur Sinha. Knowledge-Driven Approaches for Financial News Analytics 375-404. [[Crossref](#)]
304. Nont Kanungsukkasem, Teerapong Leelanupab. 2019. Financial Latent Dirichlet Allocation (FinLDA): Feature Extraction in Text and Data Mining for Financial Time Series Prediction. *IEEE Access* 7, 71645-71664. [[Crossref](#)]
305. Johan Manuel Redondo, Danny Ibarra-Vega. 2019. Fundamentos conceptuales para la tasación de multas ambientales en Colombia. *Revista Finanzas y política económica* 11:1, 183-194. [[Crossref](#)]
306. Dmitry Levando, Maxim Sakharov. 2019. Equilibrium Market Volatility in Imperfect Competition of General Equilibrium. *SSRN Electronic Journal* . [[Crossref](#)]
307. Ryan Clements. 2019. New Funds, Familiar Fears: Are Interaction Risks in Exchange Traded Funds Making Markets Less Stable?. *SSRN Electronic Journal* . [[Crossref](#)]
308. Oleksiy Plastun, Xolani Sibande, Rangan Gupta, Mark E. Wohar. 2019. Rise and Fall of Calendar Anomalies over a Century. *SSRN Electronic Journal* . [[Crossref](#)]
309. Christophre Georges, Javier Pereira. 2019. Market Stability with Machine Learning Agents. *SSRN Electronic Journal* . [[Crossref](#)]
310. Sassan Zaker. 2019. How Wealth Management Lost Clients in Translation. *SSRN Electronic Journal* 65. . [[Crossref](#)]
311. Yury Danilov. 2019. Стимулирование долгосрочных инвестиций домохозяйств в финансовые инструменты (Stimulating Long-Term Household Investments in Financial Instruments). *SSRN Electronic Journal* . [[Crossref](#)]
312. Po-Keng Cheng. Noise Trader 87-93. [[Crossref](#)]
313. Leland Bybee, Bryan T. Kelly, Asaf Manela, Dacheng Xiu. 2019. The Structure of Economic News. *SSRN Electronic Journal* 24. . [[Crossref](#)]
314. Bilgehan TEKİN. 2018. Bilişsel Önyargı ve Hevristik Bağlamında Finansın İnsani Boyutu Olarak “Davranışsal Finans”: Bir Literatür İncelemesi ve Derleme Çalışması. *Uluslararası İnsan Çalışmaları Dergisi* 1:2, 131-156. [[Crossref](#)]
315. Steve Y. Yang, Yangyang Yu, Saud Almahdi. 2018. An investor sentiment reward-based trading system using Gaussian inverse reinforcement learning algorithm. *Expert Systems with Applications* 114, 388-401. [[Crossref](#)]
316. Guglielmo Maria Caporale, Luis Gil-Alana, Alex Plastun. 2018. Is market fear persistent? A long-memory analysis. *Finance Research Letters* 27, 140-147. [[Crossref](#)]
317. G. Mujtaba Mian, Piyush Sharma, Ferdinand A. Gul. 2018. Investor sentiment and advertising expenditure. *International Journal of Research in Marketing* 35:4, 611-627. [[Crossref](#)]
318. Jukka Ilomäki, Hannu Laurila. 2018. Animal spirits in financial markets: Experimental evidence. *Journal of Behavioral and Experimental Finance* 20, 99-104. [[Crossref](#)]

319. Zhao-Rong Lai, Dao-Qing Dai, Chuan-Xian Ren, Ke-Kun Huang. 2018. Radial Basis Functions With Adaptive Input and Composite Trend Representation for Portfolio Selection. *IEEE Transactions on Neural Networks and Learning Systems* **29**:12, 6214-6226. [[Crossref](#)]
320. Imran Yousaf, Shoaib Ali, Syed Zulfiqar Ali Shah. 2018. Herding behavior in Ramadan and financial crises: the case of the Pakistani stock market. *Financial Innovation* **4**:1. . [[Crossref](#)]
321. choi seo yun, ###. 2018. The Synchronization between Korean and US Stock Markets and the Cryptocurrency. *Korean Journal of Financial Engineering* **17**:4, 119-132. [[Crossref](#)]
322. Federico Musciotto, Luca Marotta, Jyrki Piilo, Rosario N. Mantegna. 2018. Long-term ecology of investors in a financial market. *Palgrave Communications* **4**:1. . [[Crossref](#)]
323. Jessica Y. Wang, Raphael N. Markellos. 2018. Is there an Olympic gold medal rush in the stock market?. *The European Journal of Finance* **24**:17, 1631-1648. [[Crossref](#)]
324. Guillaume Baechler, Laurent Germain. 2018. A literature review on neurofinance. *Finance* **Vol. 39**:2, 9-41. [[Crossref](#)]
325. Zheng Chang, Jing Li. 2018. The impact of in-house unnatural death on property values: Evidence from Hong Kong. *Regional Science and Urban Economics* **73**, 112-126. [[Crossref](#)]
326. Jeroen C. J. M. van den Bergh. Human Evolution beyond Biology and Culture **1**, . [[Crossref](#)]
327. Venkata Narasimha Chary Mushinada, Venkata Subrahmanya Sarma Veluri. 2018. Investors overconfidence behaviour at Bombay Stock Exchange. *International Journal of Managerial Finance* **14**:5, 613-632. [[Crossref](#)]
328. Kavous Ardalan. 2018. Behavioral attitudes toward current economic events: a lesson from neuroeconomics. *Business Economics* **53**:4, 202-208. [[Crossref](#)]
329. Stjepan Begušić, Zvonko Kostanjčar, Dejan Kovač, H. Eugene Stanley, Boris Podobnik. 2018. Information Feedback in Temporal Networks as a Predictor of Market Crashes. *Complexity* **2018**, 1-13. [[Crossref](#)]
330. Ivan Contreras, J. Ignacio Hidalgo, Laura Nuñez. 2018. Exploring the influence of industries and randomness in stock prices. *Empirical Economics* **55**:2, 713-729. [[Crossref](#)]
331. Chiung-Hui Tseng, Tony Kuo. 2018. Do Chinese acquirers paying premiums in large international acquisitions experience negative market reactions as Western counterparts?. *Journal of Asia Business Studies* **12**:3, 307-317. [[Crossref](#)]
332. Hedong Xu, Cunzhi Tian, Xinrong Xiao, Suohai Fan. 2018. Evolutionary investors' power-based game on networks. *Applied Mathematics and Computation* **330**, 125-133. [[Crossref](#)]
333. Jim Haslam, Jiao Ji, Hanwen Sun. 2018. Towards a well-functioning stock market in context. *Journal of Capital Markets Studies* **2**:1, 21-36. [[Crossref](#)]
334. Nicara Young, Christo Auret. 2018. Liquidity and the convergence to market efficiency. *Investment Analysts Journal* **47**:3, 209-228. [[Crossref](#)]
335. Andrés García-Medina, Leonidas Sandoval, Efraín Urrutia Bañuelos, A.M. Martínez-Argüello. 2018. Correlations and flow of information between the New York Times and stock markets. *Physica A: Statistical Mechanics and its Applications* **502**, 403-415. [[Crossref](#)]
336. Ralph McKinney Jr, Lawrence Shao, Dale Shao, Marjorie McInerney. Chapter 7 Advancing Research on the Influences of Social Media on Human Resources in Mergers and Acquisitions 145-164. [[Crossref](#)]
337. Peter Flaschel, Matthieu Charpe, Giorgos Galanis, Christian R. Proaño, Roberto Veneziani. 2018. Macroeconomic and stock market interactions with endogenous aggregate sentiment dynamics. *Journal of Economic Dynamics and Control* **91**, 237-256. [[Crossref](#)]

338. Bilgehan TEKİN. 2018. FİRMALARIN FİNANSMAN VE YATIRIM KARARLARI ÜZERİNDE İYİMSERLİK ÖNYARGISININ ETKİSİ. *Akademik Araştırmalar ve Çalışmalar Dergisi (AKAD)* **10**:18, 158-171. [[Crossref](#)]
339. Richard Taffler. 2018. Emotional finance: investment and the unconscious. *The European Journal of Finance* **24**:7-8, 630-653. [[Crossref](#)]
340. Antonio Sánchez Serrano. 2018. EU banks after the crisis: sinners in the hands of angry markets. *Journal of Banking and Financial Economics* **2018**:1(9), 24-51. [[Crossref](#)]
341. Syed Aliya Zahera, Rohit Bansal. 2018. Do investors exhibit behavioral biases in investment decision making? A systematic review. *Qualitative Research in Financial Markets* **10**:2, 210-251. [[Crossref](#)]
342. Xue-Zhong He, Kai Li, Chuncheng Wang. 2018. Time-varying economic dominance in financial markets: A bistable dynamics approach. *Chaos: An Interdisciplinary Journal of Nonlinear Science* **28**:5, 055903. [[Crossref](#)]
343. Maria-Teresa Bosch-Badia, Joan Montllor-Serrats, Maria-Antonia Tarrazon-Rodon. 2018. Sustainability and Ethics in the Process of Price Determination in Financial Markets: A Conceptual Analysis. *Sustainability* **10**:5, 1638. [[Crossref](#)]
344. Aseem Kaul, Paul Nary, Harbir Singh. 2018. Who does private equity buy? Evidence on the role of private equity from buyouts of divested businesses. *Strategic Management Journal* **39**:5, 1268-1298. [[Crossref](#)]
345. Houda BenMabrouk. 2018. Cross-herding behavior between the stock market and the crude oil market during financial distress. *Managerial Finance* **44**:4, 439-458. [[Crossref](#)]
346. Dawid Szutowski. 2018. Abnormal market valuation and new product announcements: the role of advancement stage and innovativeness. *Innovation* **20**:2, 192-208. [[Crossref](#)]
347. Robin L. Lumsdaine, Rogier J. D. Potter van Loon. 2018. Do Survey Probabilities Match Financial Market Beliefs?. *Journal of Behavioral Finance* **19**:2, 209-220. [[Crossref](#)]
348. Vivien Lespagnol, Juliette Rouchier. 2018. Trading Volume and Price Distortion: An Agent-Based Model with Heterogenous Knowledge of Fundamentals. *Computational Economics* **51**:4, 991-1020. [[Crossref](#)]
349. Pietro De Lellis, Anna Di Meglio, Francesco Lo Iudice. 2018. Overconfident agents and evolving financial networks. *Nonlinear Dynamics* **92**:1, 33-40. [[Crossref](#)]
350. Raj Aggarwal, Dev Mishra, Craig Wilson. 2018. Analyst recommendations and the implied cost of equity. *Review of Quantitative Finance and Accounting* **50**:3, 717-743. [[Crossref](#)]
351. Evangelos Vasileiou. 2018. Is the turn of the month effect an “abnormal normality”? Controversial findings, new patterns and...hidden signs(?). *Research in International Business and Finance* **44**, 153-175. [[Crossref](#)]
352. Charilaos Mertzanis, Noha Allam. 2018. Political Instability and Herding Behaviour: Evidence from Egypt's Stock Market. *Journal of Emerging Market Finance* **17**:1, 29-59. [[Crossref](#)]
353. Arash Khayamim, Abolfazl Mirzazadeh, Bahman Naderi. 2018. Portfolio rebalancing with respect to market psychology in a fuzzy environment: A case study in Tehran Stock Exchange. *Applied Soft Computing* **64**, 244-259. [[Crossref](#)]
354. Radu T. Pruna, Maria Polukarov, Nicholas R. Jennings. 2018. Avoiding regret in an agent-based asset pricing model. *Finance Research Letters* **24**, 273-277. [[Crossref](#)]
355. Ting Li, Jan van Dalen, Pieter Jan van Rees. 2018. More than just Noise? Examining the Information Content of Stock Microblogs on Financial Markets. *Journal of Information Technology* **33**:1, 50-69. [[Crossref](#)]
356. Fathi Abid, Bilel Kaffel. 2018. The extent of virgin olive-oil prices' distribution revealing the behavior of market speculators. *Review of Quantitative Finance and Accounting* **50**:2, 561-590. [[Crossref](#)]

357. Kavous Ardalan. 2018. Neurofinance versus the efficient markets hypothesis. *Global Finance Journal* **35**, 170-176. [[Crossref](#)]
358. Dar-Hsin Chen, Han-Lin Huang. 2018. Panic, slash, or crash—Do black swans flap in stock markets?. *Physica A: Statistical Mechanics and its Applications* **492**, 1642-1663. [[Crossref](#)]
359. Daehyun Kim, Namil Kim, Wonjoon Kim. 2018. The effect of patent protection on firms' market value: The case of the renewable energy sector. *Renewable and Sustainable Energy Reviews* **82**, 4309-4319. [[Crossref](#)]
360. Esra BULUT, Bünyamin ER. 2018. DAVRANIŞSAL KURUMSAL FİNANS EKSENİNDE KURUMSAL FİNANSAL KARARLAR: BİR LİTERATÜR DEĞERLENDİRMESİ. *Uluslararası İktisadi ve İdari İncelemeler Dergisi* . [[Crossref](#)]
361. Arvydas Jadevicius, Simon Huston, Andrew Baum, Allan Butler. 2018. Two centuries of farmland prices in England. *Journal of Property Research* **35**:1, 72-94. [[Crossref](#)]
362. Stacie Bosley, Maggie Knorr. 2018. Pyramids, Ponzis and fraud prevention: lessons from a case study. *Journal of Financial Crime* **25**:1, 81-94. [[Crossref](#)]
363. Sergi Basco. A Brief History of Bubbles 5-15. [[Crossref](#)]
364. Sergi Basco. Origin of Asset Price Bubbles 17-35. [[Crossref](#)]
365. Ivo Bernardo, Roberto Henriques, Victor Lobo. Social Market: Stock Market and Twitter Correlation 341-356. [[Crossref](#)]
366. Roy R. Sengupta, Tessa Hebb, Hakan Mustafa. Seeking Greener Pastures: Exploring the Impact for Investors of ESG Integration in the Infrastructure Asset Class 89-113. [[Crossref](#)]
367. Javier A. Rangel-González, Juan Frausto-Solis, J. Javier González-Barbosa, Rodolfo A. Pazos-Rangel, Héctor J. Fraire-Huacuja. Comparative Study of ARIMA Methods for Forecasting Time Series of the Mexican Stock Exchange 475-485. [[Crossref](#)]
368. Kavous Ardalan. Pluralist Economics: A Multi-paradigmatic Look 171-227. [[Crossref](#)]
369. Nguyen Ngoc Thach, Nguyen Van Diep. The Impact of Supermoon on Stock Market Returns in Vietnam 611-623. [[Crossref](#)]
370. Mario Morroni. The Failure to Predict the Great Recession 29-46. [[Crossref](#)]
371. Lars Holstenkamp, Franziska Kahla, Heinrich Degenhart. Finanzwirtschaftliche Annäherungen an das Phänomen Bürgerbeteiligung 281-301. [[Crossref](#)]
372. Konstanze Senge, Jürgen Beyer. Finanzmarkt und Geldordnung 3-44. [[Crossref](#)]
373. Richard Bookstaber, Alan Kirman. Modeling a Heterogeneous World 769-795. [[Crossref](#)]
374. Rui Ren, Desheng Wu. 2018. An Innovative Sentiment Analysis to Measure Herd Behavior. *IEEE Transactions on Systems, Man, and Cybernetics: Systems* 1-11. [[Crossref](#)]
375. Martin B. Tarlie, Georgios Sakoulis, Roy Henriksson. 2018. Stock Market Bubbles and Anti-Bubbles. *SSRN Electronic Journal* . [[Crossref](#)]
376. Wenzhao Tian, Boyao Li, Yiling Li. 2018. Toward a Unified Theory for Normal and Crash States in Financial Markets. *SSRN Electronic Journal* . [[Crossref](#)]
377. Xuezhong He, Kai Li, Chuncheng Wang. 2018. Time-Varying Economic Dominance Through Bistable Dynamics. *SSRN Electronic Journal* . [[Crossref](#)]
378. Wilhelm Berghorn, Markus Vogl, Martin T. Schulz, Sascha Otto. 2018. Trend Momentum II: Driving Forces of Low Volatility and Momentum. *SSRN Electronic Journal* . [[Crossref](#)]
379. Oumar Sy. 2018. Noise in Asset-Pricing Tests and Anomalies. *SSRN Electronic Journal* **35** . . [[Crossref](#)]

380. Tatja Karkkainen. 2018. Price Discovery in the Bitcoin Futures and Cash Markets. *SSRN Electronic Journal* . [[Crossref](#)]
381. Hongye Guo, Jessica A. Wachter. 2018. 'Superstitious' Investors. *SSRN Electronic Journal* **107**. . [[Crossref](#)]
382. Razvan Stefanescu, Ramona Dumitriu. 2018. Introducere în analiza anomalilor calendaristice, Partea întâi (An Introduction to the Analysis of the Calendar Anomalies, Part 1). *SSRN Electronic Journal* **13**. . [[Crossref](#)]
383. Juhee Jain, Paschal O'halehi. 2018. Why People Fall Prey to Ponzi Schemes: An Analysis of Attitudes, Behaviours, Demographics and Motivations of Victims in India. *SSRN Electronic Journal* . [[Crossref](#)]
384. Carolin Hartmann, Hans-Peter Burghof, Marc Mehlhorn. 2018. An Action – Identifying Noise Traders Entering the Market with Google and Twitter. *SSRN Electronic Journal* . [[Crossref](#)]
385. Po-Keng Cheng. Noise Trader 71-76. [[Crossref](#)]
386. Alicia Puyana Mutis. 2018. Crisis económica y crisis de la teoría económica. Notas para el debate. *Perfiles Latinoamericanos* **26**:51, 351-378. [[Crossref](#)]
387. Jacques-Olivier Charron. 2017. Inefficient Debate. The EMH, the “Remarkable Error” and a Question of Point of View. *Accounting, Economics, and Law: A Convivium* **7**:3. . [[Crossref](#)]
388. Ke Zhong, Fang Wang, Lihui Zhou. 2017. Deferred revenue changes as a leading indicator for future financial performance. *Asian Review of Accounting* **25**:4, 549-568. [[Crossref](#)]
389. Azhar Mohamad. 2017. Seeking Negative Alphas Through Shorting. *Global Business Review* **18**:6, 1488-1506. [[Crossref](#)]
390. Leonardo Talero, Juan Benjamín Duarte Duarte, Katherine Julieth Sierra Suárez. 2017. Evaluación de metodologías para la construcción de mercados bursátiles artificiales. *Teuken Bidikay - Revista Latinoamericana de Investigación en Organizaciones, Ambiente y Sociedad* **8**:11, 81-98. [[Crossref](#)]
391. Emma L. Black, Jie (Michael) Guo, Nan Hu, Evangelos Vagenas-Nanos. 2017. Uncertainty triggers overreaction: evidence from corporate takeovers. *The European Journal of Finance* **23**:14, 1362-1389. [[Crossref](#)]
392. Kelvin Balcombe, Iain Fraser. 2017. Do bubbles have an explosive signature in markov switching models?. *Economic Modelling* **66**, 81-100. [[Crossref](#)]
393. Omar Camara. 2017. Industry herd behaviour in financing decision making. *Journal of Economics and Business* **94**, 32-42. [[Crossref](#)]
394. Manuel González-Igual, Teresa Corzo Santamaría, Patricia Castán Agustín. 2017. Prevailing Behavioral Biases and Investor Profiles: A Survey of Professional Investors. *The Journal of Wealth Management* **20**:3, 10-23. [[Crossref](#)]
395. John R. Kuhn, Bonnie Morris. 2017. IT internal control weaknesses and the market value of firms. *Journal of Enterprise Information Management* **30**:6, 964-986. [[Crossref](#)]
396. Carlos Colón-De-Armas, Javier Rodriguez, Herminio Romero. 2017. Investor sentiment and US presidential elections. *Review of Behavioral Finance* **9**:3, 227-241. [[Crossref](#)]
397. Chueh-Yung Tsao, Chun I Lee, Yih-Wen Shyu. 2017. Crossing of Psychological Price Levels: The Price Dynamics and Interaction between S&P500 Index and Index Futures. *Journal of Behavioral Finance* **18**:4, 427-447. [[Crossref](#)]
398. Sha Liu, Nicole Gurran. 2017. Chinese investment in Australian housing: push and pull factors and implications for understanding international housing demand. *International Journal of Housing Policy* **17**:4, 489-511. [[Crossref](#)]

399. Juan Benjamin Duarte Duarte, Leonardo Hernán Talero Sarmiento, Katherine Julieth Sierra Suárez. 2017. Evaluación del efecto de la psicología del inversionista en un mercado bursátil artificial mediante su grado de eficiencia. *Contaduría y Administración* **62**:4, 1345-1360. [[Crossref](#)]
400. Juan Benjamin Duarte Duarte, Leonardo Hernán Talero Sarmiento, Katherine Julieth Sierra Juárez. 2017. Evaluation of the effect of investor psychology on an artificial stock market through its degree of efficiency. *Contaduría y Administración* **62**:4, 1361-1376. [[Crossref](#)]
401. Aviral Kumar Tiwari, Claudiu Tiberiu Albulescu, Seong-Min Yoon. 2017. A multifractal detrended fluctuation analysis of financial market efficiency: Comparison using Dow Jones sector ETF indices. *Physica A: Statistical Mechanics and its Applications* **483**, 182-192. [[Crossref](#)]
402. Amir H. Alizadeh, Helen Thanopoulou, Tsz Leung Yip. 2017. Investors' behavior and dynamics of ship prices: A heterogeneous agent model. *Transportation Research Part E: Logistics and Transportation Review* **106**, 98-114. [[Crossref](#)]
403. Tè Bao, Cars Hommes, Tomasz Makarewicz. 2017. Bubble Formation and (In)Efficient Markets in Learning-to-Forecast and optimise Experiments. *The Economic Journal* **127**:605, F581-F609. [[Crossref](#)]
404. Gustavo Correia Xavier, Marcio Andre Veras Machado. 2017. Anomalies and Investor Sentiment: Empirical Evidences in the Brazilian Market. *BAR - Brazilian Administration Review* **14**:3. . [[Crossref](#)]
405. BO ZHANG, JINYAN HU, MINGMING JIANG, FENG GUO. 2017. MONETARY SHOCKS AND STOCK MARKET FLUCTUATIONS: WITH AN APPLICATION TO THE CHINESE STOCK MARKET. *The Singapore Economic Review* **62**:04, 875-904. [[Crossref](#)]
406. David Peón, Manel Antelo, Anxo Calvo-Silvosa. 2017. An inclusive taxonomy of behavioral biases. *European Journal of Government and Economics* **6**:1, 24-58. [[Crossref](#)]
407. Jukka Iilomäki. 2017. Animal spirits, beauty contests and expected returns. *Journal of Economics and Finance* **41**:3, 474-486. [[Crossref](#)]
408. Alexandre Garel. 2017. Myopic market pricing and managerial myopia. *Journal of Business Finance & Accounting* **38**. . [[Crossref](#)]
409. Leonardo Hernán Talero Sarmiento, Juan Benjamín Duarte Duarte, Laura Daniela Garcés Carreño. 2017. La complejidad del mercado bursátil latinoamericano a partir de un modelo autómatas celular conductual. *Apuntes del Cenes* **36**:64, 199-223. [[Crossref](#)]
410. Qiubin Liang, Wenge Rong, Jiayi Zhang, Jingshuang Liu, Zhang Xiong. Restricted Boltzmann machine based stock market trend prediction 1380-1387. [[Crossref](#)]
411. Hsiao-Jung Teng, Chin-Oh Chang, Ming-Chi Chen. 2017. Housing bubble contagion from city centre to suburbs. *Urban Studies* **54**:6, 1463-1481. [[Crossref](#)]
412. Stephen Hall, Timothy J Foxon, Ronan Bolton. 2017. Investing in low-carbon transitions: energy finance as an adaptive market. *Climate Policy* **17**:3, 280-298. [[Crossref](#)]
413. Janice Gross Stein. 2017. The Micro-Foundations of International Relations Theory: Psychology and Behavioral Economics. *International Organization* **71**:S1, S249-S263. [[Crossref](#)]
414. Yu Jiang, Xianming Fang, Haofei Wang. 2017. IPO Price, Heterogeneous Priors and Gradual Information Flows. *Prague Economic Papers* **26**:2, 188-197. [[Crossref](#)]
415. Pavlo Illiashenko. 2017. Behavioral Finance: History and Foundations. *Visnyk of the National Bank of Ukraine* :239, 28-54. [[Crossref](#)]
416. Fahad Almudhaf. 2017. Speculative bubbles and irrational exuberance in African stock markets. *Journal of Behavioral and Experimental Finance* **13**, 28-32. [[Crossref](#)]
417. Pietro DeLellis, Anna DiMeglio, Franco Garofalo, Francesco Lo Iudice. 2017. The evolving cobweb of relations among partially rational investors. *PLOS ONE* **12**:2, e0171891. [[Crossref](#)]

418. Aluko Olufemi Adewale, Adeyeye Patrick Olufemi, Migiro Stephen Oseko. 2017. Modelling Volatility Persistence and Asymmetry with Structural Break: Evidence from the Nigerian Stock Market. *Journal of Economics and Behavioral Studies* 8:6(J), 153-160. [[Crossref](#)]
419. Domenico Lombardi, Manuela Moschella. 2017. The symbolic politics of delegation: macroprudential policy and independent regulatory authorities. *New Political Economy* 22:1, 92-108. [[Crossref](#)]
420. Sohyung Kim, Darlene Bay. 2017. Cognitive Dissonance as an Explanation of Goodwill Write-Offs. *Journal of Behavioral Finance* 18:1, 14-28. [[Crossref](#)]
421. Richard Barwell. The Macroprudential Agenda 197-232. [[Crossref](#)]
422. Roland Gillet, Stéphanie Ligot, Hassan Omid Firouzi. The challenges and implications of the Markets in Financial Instruments Directive (MiFID) and of its revision (MiFID II, MiFIR) on the efficiency of financial markets 151-198. [[Crossref](#)]
423. Zamir Iqbal, Abbas Mirakhor. Ethical Dimensions of Islamic Economics and Finance 103-134. [[Crossref](#)]
424. Imad A. Moosa, Vikash Ramiah. The Rise and Fall of Neoclassical Finance 1-25. [[Crossref](#)]
425. Imad A. Moosa, Vikash Ramiah. The Rise and Rise of Behavioural Finance 27-44. [[Crossref](#)]
426. Hans Rüdiger Pfister, Helmut Jungermann, Katrin Fischer. Anwendungsfelder 377-421. [[Crossref](#)]
427. Julijana Angelovska. 2017. Investors' behaviour in regard to company earnings announcements during the recession period: evidence from the Macedonian stock exchange. *Economic Research-Ekonomska Istraživanja* 30:1, 647-660. [[Crossref](#)]
428. J. E. Woods. 2017. On the political economy of UK pension scheme regulation. *Cambridge Journal of Economics* 41:1, 147-180. [[Crossref](#)]
429. Zhao-Rong Lai, Dao-Qing Dai, Chuan-Xian Ren, Ke-Kun Huang. 2017. A Peak Price Tracking-Based Learning System for Portfolio Selection. *IEEE Transactions on Neural Networks and Learning Systems* 1-10. [[Crossref](#)]
430. Abhijeet Chandra, M. Thenmozhi. 2017. Behavioural Asset Pricing: Review and Synthesis. *Journal of Interdisciplinary Economics* 29:1, 1-31. [[Crossref](#)]
431. Sergei Belkov, Igor V. Evstigneev, Thorsten Hens. 2017. Evolutionary Finance Models with Short Selling and Endogenous Asset Supply. *SSRN Electronic Journal* . [[Crossref](#)]
432. Guglielmo Maria Caporale, Luis A. Gil-Alana, Oleksiy Plastun. 2017. Is Market Fear Persistent? A Long-Memory Analysis. *SSRN Electronic Journal* . [[Crossref](#)]
433. Sergei Belkov, Igor V. Evstigneev, Thorsten Hens. 2017. An Evolutionary Finance Model with a Risk-Free Asset. *SSRN Electronic Journal* . [[Crossref](#)]
434. Alassane Diaw. 2017. Les marchés financiers: de la rationalité à la complexité (Financial Markets: From Rationality to Complexity). *SSRN Electronic Journal* . [[Crossref](#)]
435. Xun Lei. 2017. The Value of Political Rhetoric to Stock Market: Evidence from the United States. *SSRN Electronic Journal* . [[Crossref](#)]
436. CHANDRAPPA PAVANKUMAR, TRIVENI P. 2017. A STUDY ON THE RELEVANCE OF TECHNICAL ANALYSIS IN DETECTING TRADING SIGNALS IN INDIAN EQUITY MARKETS. *i-manager's Journal on Management* 12:2, 61. [[Crossref](#)]
437. Christian Borch, Ann-Christina Lange. 2016. Market sociality: Mirowski, Shiller and the tension between mimetic and anti-mimetic market features. *Cambridge Journal of Economics* vol. 37, bew057. [[Crossref](#)]
438. Peter V. Rajsingh. The Global Financial Crisis and Neo-Liberal Financialization 57-73. [[Crossref](#)]
439. Igor Deplano, Giovanni Squillero, Alberto Tonda. 2016. Anatomy of a portfolio optimizer under a limited budget constraint. *Evolutionary Intelligence* 9:4, 125-136. [[Crossref](#)]

440. Tobias A. Huber, Didier Sornette. 2016. Can there be a physics of financial markets? Methodological reflections on econophysics. *The European Physical Journal Special Topics* **225**:17-18, 3187-3210. [[Crossref](#)]
441. Milan Zafirovski. 2016. Rational Choice Theory at the Origin? Forms and Social Factors of "Irrational Choice". *Social Epistemology* **30**:5-6, 728-763. [[Crossref](#)]
442. Dimitri Kroujiline, Maxim Gusev, Dmitry Ushanov, Sergey V. Sharov, Boris Govorkov. 2016. Forecasting stock market returns over multiple time horizons. *Quantitative Finance* **16**:11, 1695-1712. [[Crossref](#)]
443. Celso Brunetti, Bahattin Büyükaşahin, Jeffrey H. Harris. 2016. Speculators, Prices, and Market Volatility. *Journal of Financial and Quantitative Analysis* **51**:5, 1545-1574. [[Crossref](#)]
444. Phil Maguire, Robert Miller, Philippe Moser, Rebecca Maguire. 2016. A robust house price index using sparse and frugal data. *Journal of Property Research* **33**:4, 293-308. [[Crossref](#)]
445. . Bibliography 219-246. [[Crossref](#)]
446. JUKKA ILOMÄKI. 2016. RISK-FREE RATES AND ANIMAL SPIRITS IN FINANCIAL MARKETS. *Annals of Financial Economics* **11**:03, 1650011. [[Crossref](#)]
447. Raj S. Dhankar, Devesh Shankar. 2016. Relevance and evolution of adaptive markets hypothesis: a review. *Journal of Indian Business Research* **8**:3, 166-179. [[Crossref](#)]
448. Jérôme Monne, Céline Louche, Christophe Villa. 2016. Rational Herding toward the Poor: Evidence from Location Decisions of Microfinance Institutions within Pakistan. *World Development* **84**, 266-281. [[Crossref](#)]
449. Kadir C. Yalcin, Ekrem Tatoglu, Selim Zaim. 2016. Developing an instrument for measuring the effects of heuristics on investment decisions. *Kybernetes* **45**:7, 1052-1071. [[Crossref](#)]
450. Máté Lakatos. 2016. A befektetői túlreagálás empirikus vizsgálata a Budapesti Értéktőzsdén. *Közgazdasági Szemle* **63**:7-8, 762-786. [[Crossref](#)]
451. Paul Windolf. 2016. Riding the Bubble: Financial Market Crises in Twenty-Two OECD Countries. *Journal of Economic Issues* **50**:3, 788-813. [[Crossref](#)]
452. LEVAN EFREMIDZE, JOHN RUTLEDGE, THOMAS D. WILLET. 2016. CAPITAL FLOW SURGES AS BUBBLES: BEHAVIORAL FINANCE AND MCKINNON'S OVER-BORROWING SYNDROME EXTENDED. *The Singapore Economic Review* **61**:02, 1640023. [[Crossref](#)]
453. Mark Hoven Stohs. 2016. Do Cs make degrees? The relationship of maximizing versus satisficing student types and academic success in the business curriculum. *Journal of Education for Business* **91**:4, 193-202. [[Crossref](#)]
454. Jan-Hendrik Meier, Walid Esmatyar. 2016. Managerial Optimism and the Cost of Capital. The SEM-Approach with a Focus on the German Capital Market. *Zeszyty Teoretyczne Rachunkowości* **2016**:86(142), 119-134. [[Crossref](#)]
455. Jyoti Kumari, Jitendra Mahakud. 2016. Investor Sentiment and Stock Market Volatility: Evidence from India. *Journal of Asia-Pacific Business* **17**:2, 173-202. [[Crossref](#)]
456. Juan Benjamín Duarte Duarte, Laura Daniela Garcés Carreño, Katherine Julieth Sierra Suárez. 2016. Efecto manada en sectores económicos de las bolsas latinoamericanas: una visión pre y poscrisis subprime. *Contaduría y Administración* **61**:2, 298-323. [[Crossref](#)]
457. İhsan KULALI. 2016. Etkin Piyasalar Hipotezi ve Davranışsal Finans Çatışması?. *International Journal of Finance & Banking Studies (2147-4486)* **5**:2, 46-57. [[Crossref](#)]
458. Milan Zafirovski. 2016. Toward Economic Sociology/Socio-Economics? Sociological Components in Contemporary Economics and Implications for Sociology. *The American Sociologist* **47**:1, 56-80. [[Crossref](#)]

459. Jasman Tuyon, Zamri Ahmad. 2016. Behavioural finance perspectives on Malaysian stock market efficiency. *Borsa Istanbul Review* **16**:1, 43-61. [[Crossref](#)]
460. Paresh Kumar Narayan, Badri Narayan Rath, K.P. Prabheesh. 2016. What is the value of corporate sponsorship in sports?. *Emerging Markets Review* **26**, 20-33. [[Crossref](#)]
461. Kei Kawakami. 2016. Market size matters: A model of excess volatility in large markets. *Journal of Financial Markets* **28**, 24-45. [[Crossref](#)]
462. Jim Yuh Huang, Joseph C.P. Shieh, Yu-Cheng Kao. 2016. Starting points for a new researcher in behavioral finance. *International Journal of Managerial Finance* **12**:1, 92-103. [[Crossref](#)]
463. Ivan D Damnjanovic, Scott T Johnson, David N. Ford. 2016. Financial Stress Testing of Toll Road Projects: The Effect of Feedback Loop Dynamics. *The Journal of Structured Finance* . [[Crossref](#)]
464. . References 349-374. [[Crossref](#)]
465. Salman Ahmed Shaikh, Muhammad Hakimi Mohd. Shafiai, Abdul Ghafar Ismail, Mohd. Adib Ismail. Exploring Efficiency, Co-integration, Causality and Volatility Clustering in Unrestricted and Islamic Portfolios 101-122. [[Crossref](#)]
466. Philip Pilkington. Finance and Investment 221-277. [[Crossref](#)]
467. Gerald Janous. Die Effizienzmarkthypothese als instrumentalistisches Marktmodell 35-56. [[Crossref](#)]
468. Gerald Janous. Entwicklung einer Investorentypologie zur Charakterisierung von Marktentwicklungen 87-111. [[Crossref](#)]
469. S. Niggol Seo. Introduction to the Microbehavioral Econometric Methods for the Study of Environmental and Natural Resources 1-23. [[Crossref](#)]
470. S. Niggol Seo. Modeling Microbehavioral Decisions: Economic Perspectives 25-67. [[Crossref](#)]
471. S. Niggol Seo. Modeling Microbehavioral Decisions: Modeling the Whole System Versus the Subsystems 161-189. [[Crossref](#)]
472. S. Niggol Seo. Modeling Risk, Perceptions, and Uncertainties With Microbehavioral Methods 235-277. [[Crossref](#)]
473. S. Niggol Seo. Gleaning Insights From Microbehavioral Models on Environmental and Natural Resource Policies 279-298. [[Crossref](#)]
474. Pablo Iglesias-Rodríguez. Paradigm Shift in Financial-Sector Policymaking Models: From Industry-Based to Civil Society-Based EU Financial Services Governance? 23-73. [[Crossref](#)]
475. Richard Barwell. When Bond Markets Attack 377-401. [[Crossref](#)]
476. Juan Benjamín Duarte Duarte, Laura Daniela Garcés Carreño, Katherine Julieth Sierra Suárez. 2016. Análisis del Comportamiento Manada en los sectores bursátiles de América Latina. *Ecos de Economía* **20**:42, 4-18. [[Crossref](#)]
477. Paolo Vanini. 2016. Asset Management. *SSRN Electronic Journal* . [[Crossref](#)]
478. Edoardo Gaffeo, Massimo Molinari. 2016. Taxing Financial Transactions in Fundamentally Heterogeneous Markets. *SSRN Electronic Journal* . [[Crossref](#)]
479. Ayman Metwally. 2016. Does Herding Behaviour Vary in Bull and Bear Markets? Perspectives from Egypt. *SSRN Electronic Journal* . [[Crossref](#)]
480. Allan Dwyer. 2016. Financialization, Equity, and Elite Capture in Pakistan. *SSRN Electronic Journal* . [[Crossref](#)]
481. Paulina Roszkowska, ukasz K. Langer. 2016. Counterintuitive Investment Opportunities in the WSE. Evidence from the Field of Asset Pricing. *SSRN Electronic Journal* . [[Crossref](#)]
482. Hina Uqaili. 2016. Money as Special Asset: Reanalyzing Behavioral Theories on Money with Implications for Islamic Finance. *SSRN Electronic Journal* **106** . [[Crossref](#)]

483. Mukul Pal. 2016. How Physics Solved Your Wealth Problem!. *SSRN Electronic Journal* . [[Crossref](#)]
484. Steve N. Isser. 2016. What Is Workable Competition, Anyway (and Why Should We Care). *SSRN Electronic Journal* . [[Crossref](#)]
485. Giovanni Ferri, Matteo Ploner, Matteo Rizzolli. 2016. Trading Fast and Slow the Role of Deliberation in Experimental Financial Markets. *SSRN Electronic Journal* . [[Crossref](#)]
486. Salim Lahmiri. Prediction of International Stock Markets Based on Hybrid Intelligent Systems 110-124. [[Crossref](#)]
487. Dinçer Atli, Mehmet Yilmazata. Neuroeconomics and Media Economics 33-44. [[Crossref](#)]
488. Amari Mouna, Jarboui Anis. 2015. The factors forming investor's failure: Is financial literacy a matter? Viewing test by cognitive mapping technique. *Cogent Economics & Finance* 3:1. . [[Crossref](#)]
489. Young-Chul Shin, Sam-Wook Choi, Juwon Ha, Jung-Seok Choi, Dai-Jin Kim. 2015. Gambling disorder in financial markets: Clinical and treatment-related features. *Journal of Behavioral Addictions* 4:4, 244-249. [[Crossref](#)]
490. Linda Bergset. 2015. The Rationality and Irrationality of Financing Green Start-Ups. *Administrative Sciences* 5:4, 260-285. [[Crossref](#)]
491. Vojtěch Fiala, Svatopluk Kapounek, Ondřej Veselý. 2015. Impact of Social Media on the Stock Market: Evidence from Tweets. *European Journal of Business Science and Technology* 1:1, 24-35. [[Crossref](#)]
492. Sandrine Jacob Leal. 2015. Fundamentalists, chartists and asset pricing anomalies. *Quantitative Finance* 15:11, 1837-1850. [[Crossref](#)]
493. Olga Pak, Monowar Mahmood. 2015. Impact of personality on risk tolerance and investment decisions. *International Journal of Commerce and Management* 25:4, 370-384. [[Crossref](#)]
494. Thomas Theobald. 2015. Agent-based risk management – a regulatory approach to financial markets. *Journal of Economic Studies* 42:5, 780-820. [[Crossref](#)]
495. Elias OIKARINEN, Felix Schindler. 2015. MOMENTUM AND MEAN REVERSION IN REGIONAL HOUSING MARKETS: EVIDENCE FROM VARIANCE RATIO TESTS. *International Journal of Strategic Property Management* 19:3, 220-234. [[Crossref](#)]
496. Jayendra Gokhale, Carol Horton Tremblay, Victor J. Tremblay. 2015. Misvaluation and Behavioral Bias in Financial Markets. *Journal of Behavioral Finance* 16:4, 344-356. [[Crossref](#)]
497. Katherine Julieth Sierra Suárez, Juan Benjamín Duarte Duarte, Victor Alfonso Rueda Ortíz. 2015. Predictibilidad de los retornos en el mercado de Colombia e hipótesis de mercado adaptativo. *Estudios Gerenciales* 31:137, 411-418. [[Crossref](#)]
498. Ayse Kaya, Geoffrey Herrera. 2015. Why the 2008 crisis was a bad crisis for new ideas. *Journal of International Relations and Development* 18:4, 505-531. [[Crossref](#)]
499. Bohumil Stádník, Algita Miečinskienė. 2015. COMPLEX MODEL OF MARKET PRICE DEVELOPMENT AND ITS SIMULATION. *Journal of Business Economics and Management* 16:4, 786-807. [[Crossref](#)]
500. Amari Mouna, Anis Jarboui. 2015. Financial literacy and portfolio diversification: an observation from the Tunisian stock market. *International Journal of Bank Marketing* 33:6, 808-822. [[Crossref](#)]
501. Bachar Fakhry, Christian Richter. 2015. Is the sovereign debt market efficient? Evidence from the US and German sovereign debt markets. *International Economics and Economic Policy* 12:3, 339-357. [[Crossref](#)]
502. Kao-Yi Shen, Gwo-Hshiung Tzeng. 2015. Fuzzy Inference-Enhanced VC-DRSA Model for Technical Analysis: Investment Decision Aid. *International Journal of Fuzzy Systems* 17:3, 375-389. [[Crossref](#)]
503. Hyein Shim, Hyeyoen Kim, Junyeup Kim, Doojin Ryu. 2015. Weather and stock market volatility: the case of a leading emerging market. *Applied Economics Letters* 22:12, 987-992. [[Crossref](#)]

504. Michael Nofer, Oliver Hinz. 2015. Using Twitter to Predict the Stock Market. *Business & Information Systems Engineering* 57:4, 229-242. [[Crossref](#)]
505. VIVIEN LESPAGNOL, JULIETTE ROUCHIER. 2015. FAIR PRICE AND TRADING PRICE: AN ABM APPROACH WITH ORDER-PLACEMENT STRATEGY AND MISUNDERSTANDING OF FUNDAMENTAL VALUE. *Advances in Complex Systems* 18:05n06, 1550024. [[Crossref](#)]
506. JÚLIO LOBÃO, NUNO MARQUES ROLLA. 2015. UM OUTRO OLHAR SOBRE A EFICIÊNCIA DOS MERCADOS: O CASO DAS BOLSAS DE APOSTAS DE TÊNIS. *Revista de Administração de Empresas* 55:4, 418-431. [[Crossref](#)]
507. Yuri Biondi. 2015. Accounting and the formation of share market prices over time: a mathematical institutional economic analysis through simulation and experiment. *Applied Economics* 47:34-35, 3651-3672. [[Crossref](#)]
508. Marjan Van de Kauter, Diane Breesch, Véronique Hoste. 2015. Fine-grained analysis of explicit and implicit sentiment in financial news articles. *Expert Systems with Applications* 42:11, 4999-5010. [[Crossref](#)]
509. Anita Ratcliffe, Karl Taylor. 2015. Who cares about stock market booms and busts? Evidence from data on mental health. *Oxford Economic Papers* 67:3, 826-845. [[Crossref](#)]
510. Stephan Lang, Wolfgang Schaefer. 2015. Examining the sentiment-return relationship in European real estate stock markets. *Journal of European Real Estate Research* 8:1, 24-45. [[Crossref](#)]
511. Joon Ho Hwang, Min-Su Kim. 2015. Misunderstanding of the binomial distribution, market inefficiency, and learning behavior: Evidence from an exotic sports betting market. *European Journal of Operational Research* 243:1, 333-344. [[Crossref](#)]
512. Eddie Chi-Man Hui, Ziyou Wang. 2015. Can we predict the property cycle? A study of securitized property market. *Physica A: Statistical Mechanics and its Applications* 426, 72-87. [[Crossref](#)]
513. Charles G. Leathers, J. Patrick Raines, Heather R. Richardson-Bono. 2015. Natural experiments and debt-driven financial crises: mortgage finance booms in the 1920s and 2000s. *International Journal of Social Economics* 42:4, 340-355. [[Crossref](#)]
514. Jan Viebig. 2015. Are Emerging Market Investors Overly Pessimistic in Extreme Risk-off Periods?. *Journal of Behavioral Finance* 16:2, 163-172. [[Crossref](#)]
515. Benito Umaña Hermosilla, Juan Cabas Monje, Juan Rodríguez Navarrete, Miguel Villablanca Fuentes. 2015. Variables explicativas del comportamiento del inversor de multifondos. Un análisis desde la perspectiva de los inversores en el sistema de pensiones chileno. *Estudios Gerenciales* 31:135, 183-190. [[Crossref](#)]
516. Benjamin Bossan, Ole Jann, Peter Hammerstein. 2015. The evolution of social learning and its economic consequences. *Journal of Economic Behavior & Organization* 112, 266-288. [[Crossref](#)]
517. Daniel Peterson, Anders Carlander, Amelie Gamble, Tommy Gärling, Martin Holmen. 2015. Lay people beliefs in professional and naïve stock investors' proneness to judgmental biases. *Journal of Behavioral and Experimental Finance* 5, 27-34. [[Crossref](#)]
518. Cheol S. Eun, Lingling Wang, Steven C. Xiao. 2015. Culture and R2. *Journal of Financial Economics* 115:2, 283-303. [[Crossref](#)]
519. Vitor Leone, Otavio Ribeiro de Medeiros. 2015. Signalling the Dotcom bubble: A multiple changes in persistence approach. *The Quarterly Review of Economics and Finance* 55, 77-86. [[Crossref](#)]
520. Wilhelm Berghorn. 2015. Trend momentum. *Quantitative Finance* 15:2, 261-284. [[Crossref](#)]
521. Giovanni Ferri, Doris Neuberger. The Banking Regulatory Bubble and How to Get out of It 31-61. [[Crossref](#)]

522. MIMOZA Shabani, Jan Toporowski. 2015. A Nobel Prize for the Empirical Analysis of Asset Prices. *Review of Political Economy* 27:1, 62-85. [[Crossref](#)]
523. Stefan Feuerriegel, Sebastian Felix Heitzmann, Dirk Neumann. Do Investors Read Too Much into News? How News Sentiment Causes Price Formation 4803-4812. [[Crossref](#)]
524. Sven Carlin. 2015. A Real Value Risk Estimation Model for an Emerging Market. *SSRN Electronic Journal* 56. . [[Crossref](#)]
525. Federico Favaretto, Donato Masciandaro. 2015. Behavioral Economics and Monetary Policy. *SSRN Electronic Journal* . [[Crossref](#)]
526. Nhat Le. 2015. Are Prices Predictable in the Short Term?. *SSRN Electronic Journal* . [[Crossref](#)]
527. Kei Kawakami. 2015. Market Size Matters: A Model of Excess Volatility in Large Markets. *SSRN Electronic Journal* . [[Crossref](#)]
528. Arvydas Jadevicius, Simon Huston, Andrew Baum. 2015. Two Centuries of Farmland Prices in England. *SSRN Electronic Journal* . [[Crossref](#)]
529. Aseem Kaul, Paul Nary, Harbir Singh. 2015. Underinvestment and the Role of Private Equity: Evidence from Divisional Buyouts. *SSRN Electronic Journal* . [[Crossref](#)]
530. Jessica Y. Wang, Raphael N. Markellos. 2015. Is There an Olympic Gold Medal Rush in the Stock Market?. *SSRN Electronic Journal* . [[Crossref](#)]
531. Dimitri Kroujiline, Maxim Gusev, Dmitry Ushanov, Sergey V. Sharov, Boris Govorkov. 2015. Forecasting Stock Market Returns Over Multiple Time Horizons. *SSRN Electronic Journal* . [[Crossref](#)]
532. Te Bao, C. H. Hommes, Tomasz Makarewicz. 2015. Bubble Formation and (In)Efficient Markets in Learning-to-Forecast and -Optimise Experiments. *SSRN Electronic Journal* 31. . [[Crossref](#)]
533. Rustam Vosilov. 2015. Sculpture Market Efficiency and the Impact of Auction House Art Experts. *SSRN Electronic Journal* . [[Crossref](#)]
534. Yuri Biondi, Simone Righi. 2015. Much Ado About Making Money: The Impact of Disclosure, News and Rumors Over the Formation of Security Market Prices Over Time. *SSRN Electronic Journal* . [[Crossref](#)]
535. S. Hun Seog. 2015. Finance Ritual. *SSRN Electronic Journal* . [[Crossref](#)]
536. Michal Markun, Anna Marszal (Mospan). 2015. Stationarity and Persistence of the Term Premia in the Polish Money Market. *SSRN Electronic Journal* . [[Crossref](#)]
537. Wilhelm Berghorn, Sascha Otto. 2015. Momentum: An Economic View. *SSRN Electronic Journal* . [[Crossref](#)]
538. Kiranjit Sett, Debabrata Mukhopadhyay. The Role of Market Sentiment in Stock Price Movements 24-43. [[Crossref](#)]
539. S. Niggol Seo. The Theory of the Micro-behavioral Economics of Global Warming 11-28. [[Crossref](#)]
540. Vivien Lespagnol, Juliette Rouchier. What Is the Impact of Heterogeneous Knowledge About Fundamentals on Market Liquidity and Efficiency: An ABM Approach 105-117. [[Crossref](#)]
541. S. Niggol Seo. Wading into the Century of Global Warming and Adaptation Strategies 81-93. [[Crossref](#)]
542. Klaus Moser, Roman Soucek. Epilog 361-374. [[Crossref](#)]
543. Geneviève Helleringer. Retail Investors and Disclosure Requirements 193-209. [[Crossref](#)]
544. S. Niggol Seo. Agro-economic Models: Theory and Major Findings 49-58. [[Crossref](#)]
545. Milan Zafirovski. 2014. Rational Choice Requiem: The Decline of an Economic Paradigm and its Implications for Sociology. *The American Sociologist* 45:4, 432-452. [[Crossref](#)]

546. Steven E. Salterio. 2014. We Don't Replicate Accounting Research-Or Do We?. *Contemporary Accounting Research* 31:4, 1134-1142. [[Crossref](#)]
547. Pierre-Yves Gomez. Coopération ou incitation : le rôle des ordres de gouvernance dans la trajectoire de l'entreprise 255-267. [[Crossref](#)]
548. Hui Bu. 2014. Effect of inventory announcements on crude oil price volatility. *Energy Economics* 46, 485-494. [[Crossref](#)]
549. Viktor Manahov, Robert Hudson. 2014. A note on the relationship between market efficiency and adaptability – New evidence from artificial stock markets. *Expert Systems with Applications* 41:16, 7436-7454. [[Crossref](#)]
550. Celso Brunetti, David Reiffen. 2014. Commodity index trading and hedging costs. *Journal of Financial Markets* 21, 153-180. [[Crossref](#)]
551. Teresa Corzo, Margarita Prat, Esther Vaquero. 2014. Behavioral Finance in Joseph de la Vega's Confusion de Confusiones. *Journal of Behavioral Finance* 15:4, 341-350. [[Crossref](#)]
552. Daniel F. Stone, Basit Zafar. 2014. Do we follow others when we should outside the lab? Evidence from the AP top 25. *Journal of Risk and Uncertainty* 49:1, 73-102. [[Crossref](#)]
553. Andrea Koranda, Stefanie Post. 2014. Mehrperiodiges Entscheidungsverhalten bei Lebensversicherungsverträgen mit Indexpartizipation unter Unsicherheit. *Zeitschrift für die gesamte Versicherungswissenschaft* 103:3, 225-242. [[Crossref](#)]
554. Kevin J. Lansing, Stephen F. LeRoy. 2014. Risk aversion, investor information and stock market volatility. *European Economic Review* 70, 88-107. [[Crossref](#)]
555. Martin Angerer, Jürgen Huber, Michael Kirchler. 2014. Trader Performance in a Market Experiment with Human and Computerized Traders. *Schmalenbach Business Review* 66:3, 224-244. [[Crossref](#)]
556. Robert J. Shiller. 2014. Speculative Asset Prices. *American Economic Review* 104:6, 1486-1517. [[Citation](#)] [[View PDF article](#)] [[PDF with links](#)]
557. Massimo Egidi. 2014. The economics of wishful thinking and the adventures of rationality. *Mind & Society* 13:1, 9-27. [[Crossref](#)]
558. Didier Sornette. 2014. Physics and financial economics (1776–2014): puzzles, Ising and agent-based models. *Reports on Progress in Physics* 77:6, 062001. [[Crossref](#)]
559. Hans Dewachter, Deniz Erdemlioglu, Jean-Yves Gnabo, Christelle Lecourt. 2014. The intra-day impact of communication on euro-dollar volatility and jumps. *Journal of International Money and Finance* 43, 131-154. [[Crossref](#)]
560. Oscar Bernal, Astrid Herinckx, Ariane Szafarz. 2014. Which short-selling regulation is the least damaging to market efficiency? Evidence from Europe. *International Review of Law and Economics* 37, 244-256. [[Crossref](#)]
561. James Vercammen, Ali Doroudian. 2014. Portfolio Speculation and Commodity Price Volatility in a Stochastic Storage Model. *American Journal of Agricultural Economics* 96:2, 517-532. [[Crossref](#)]
562. Mohammad Abdul Munim Joarder, Monir Uddin Ahmed, Tahsina Haque, Syed Hasanuzzaman. 2014. An empirical testing of informational efficiency in Bangladesh capital market. *Economic Change and Restructuring* 47:1, 63-87. [[Crossref](#)]
563. James Goodman. 2014. Evidence for ecological learning and domain specificity in rational asset pricing and market efficiency. *The Journal of Socio-Economics* 48, 27-39. [[Crossref](#)]
564. Neil B. Niman. The Coming “Perfect Storm” in Higher Education 7-26. [[Crossref](#)]
565. Robert J. Shiller. 2014. Speculative Asset Prices (Nobel Prize Lecture). *SSRN Electronic Journal* 19. . [[Crossref](#)]

566. Nhat Le. 2014. Are Daily Asset Prices Predictable in Some Degree?. *SSRN Electronic Journal* . [[Crossref](#)]
567. Didier Sornette. 2014. Physics and Financial Economics (1776-2014): Puzzles, Ising and Agent-Based Models. *SSRN Electronic Journal* . [[Crossref](#)]
568. Claudia Keser, Andreas Markttdter. 2014. Informational Asymmetries in Laboratory Asset Markets with State-Dependent Fundamentals. *SSRN Electronic Journal* . [[Crossref](#)]
569. Philip Clarke Pilkington. 2014. Endogenous Money and the Natural Rate of Interest: The Reemergence of Liquidity Preference and Animal Spirits in the Post-Keynesian Theory of Capital Markets. *SSRN Electronic Journal* **108**. . [[Crossref](#)]
570. Thomas Etheber. 2014. Trading Volume Effects of Moving Average Heuristics. *SSRN Electronic Journal* . [[Crossref](#)]
571. Paul H. Windolf. 2014. Riding the Bubble: Financial Market Crises in 22 OECD-Countries. *SSRN Electronic Journal* **61**. . [[Crossref](#)]
572. Steven Salterio. 2014. We Don't Replicate Academic Accounting Research Or Do We?. *SSRN Electronic Journal* . [[Crossref](#)]
573. Giovanni Ferri, Doris Neuberger. 2014. The Banking Regulatory Bubble and How to Get Out of It. *SSRN Electronic Journal* . [[Crossref](#)]
574. Ronald Henry Mynhardt, Alexey Plastun, Inna Makarenko. 2014. Behavior of financial markets efficiency during the financial market crisis: 2007 – 2009. *Corporate Ownership and Control* **11**:2, 473-487. [[Crossref](#)]
575. Mustafa Okur, A. Osman Gurbuz. A Competitive Approach to Financial Issues 173-186. [[Crossref](#)]
576. Mustafa Okur, A. Osman Gurbuz. Behavioral Finance in Theory and Practice 254-271. [[Crossref](#)]
577. . Post-Keynesian Empirical Research and the Debate on Financial Market Development 1-13. [[Crossref](#)]
578. Magnus Boman. Who Were Where When? On the Use of Social Collective Intelligence in Computational Epidemiology 203-225. [[Crossref](#)]
579. Jiri Kukacka, Jozef Barunik. 2013. Behavioural breaks in the heterogeneous agent model: The impact of herding, overconfidence, and market sentiment. *Physica A: Statistical Mechanics and its Applications* **392**:23, 5920-5938. [[Crossref](#)]
580. Guillaume Vuilleme. 2013. Sur le statut épistémologique de l'hypothèse d'efficience des marchés. *Revue de philosophie économique* **Vol. 14**:2, 93-118. [[Crossref](#)]
581. Ben Eltham. 2013. Three arguments against 'soft innovation': towards a richer understanding of cultural innovation. *International Journal of Cultural Policy* **19**:5, 537-556. [[Crossref](#)]
582. Joachim Nagel. 2013. Les conséquences d'un marché monétaire inefficace. *Revue d'économie financière* N° **111**:3, 199-214. [[Crossref](#)]
583. David Chambers,, Elroy Dimson. 2013. Retrospectives: John Maynard Keynes, Investment Innovator. *Journal of Economic Perspectives* **27**:3, 213-228. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
584. Ti-Ching Peng. 2013. A microstructural analysis of housing renovation decisions in Brisbane, Australia. *New Zealand Economic Papers* **47**:2, 158-187. [[Crossref](#)]
585. Marc Orlitzky. 2013. Corporate Social Responsibility, Noise, and Stock Market Volatility. *Academy of Management Perspectives* **27**:3, 238-254. [[Crossref](#)]
586. Amy Khuu, Ernst Juerg Weber. 2013. How Australian farmers deal with risk. *Agricultural Finance Review* **73**:2, 345-357. [[Crossref](#)]
587. James S. Ang, Gregory L. Nagel. The Real Asset Anomaly: A Critical Long View of Capital Markets and Institutions from Realized Returns of Corporate Assets in Over 50 Years 63-102. [[Crossref](#)]

588. Hsiao-Jung Teng, Chin-Oh Chang, K.W. Chau. 2013. Housing bubbles: A tale of two cities. *Habitat International* **39**, 8-15. [[Crossref](#)]
589. Kazumi Asako, Zhentao Liu. 2013. A statistical model of speculative bubbles, with applications to the stock markets of the United States, Japan, and China. *Journal of Banking & Finance* **37**:7, 2639-2651. [[Crossref](#)]
590. Egidijus Bikas, Daiva Jurevičienė, Petras Dubinskas, Lina Novickytė. 2013. Behavioural Finance: The Emergence and Development Trends. *Procedia - Social and Behavioral Sciences* **82**, 870-876. [[Crossref](#)]
591. Azhar Mohamad, Aziz Jaafar, Lynn Hodgkinson, Jo Wells. 2013. Short selling and stock returns: Evidence from the UK. *The British Accounting Review* **45**:2, 125-137. [[Crossref](#)]
592. Alan Gregory, Emma Jeanes, Rajesh Tharyan, Ian Tonks. 2013. Does the Stock Market Gender Stereotype Corporate Boards? Evidence from the Market's Reaction to Directors' Trades. *British Journal of Management* **24**:2, 174-190. [[Crossref](#)]
593. Rabah Amir, Igor V. Evstigneev, Klaus Reiner Schenk-Hoppé. 2013. Asset market games of survival: a synthesis of evolutionary and dynamic games. *Annals of Finance* **9**:2, 121-144. [[Crossref](#)]
594. Jay Barney, Teppo Felin. 2013. What Are Microfoundations?. *Academy of Management Perspectives* **27**:2, 138-155. [[Crossref](#)]
595. Roland Bénabou. 2013. Groupthink: Collective Delusions in Organizations and Markets. *The Review of Economic Studies* **80**:2, 429-462. [[Crossref](#)]
596. María José Roa García. 2013. FINANCIAL EDUCATION AND BEHAVIORAL FINANCE: NEW INSIGHTS INTO THE ROLE OF INFORMATION IN FINANCIAL DECISIONS. *Journal of Economic Surveys* **27**:2, 297-315. [[Crossref](#)]
597. Thomas Oatley, W. Kindred Winecoff, Andrew Pennock, Sarah Bauerle Danzman. 2013. The Political Economy of Global Finance: A Network Model. *Perspectives on Politics* **11**:1, 133-153. [[Crossref](#)]
598. Sofia Apreleva, Neil Johnson, Tsai-Ching Lu. Progress Curves and the Prediction of Significant Market Events 11-28. [[Crossref](#)]
599. Carolyn Wirth, Jing Chi, Martin Young. 2013. The Economic Impact of Capital Expenditures: Environmental Regulatory Delay as a Source of Competitive Advantage?. *Journal of Business Finance & Accounting* **40**:1-2, 115-141. [[Crossref](#)]
600. Yuri Biondi. 2013. Accounting and the Formation of Share Market Prices Over Time: A Mathematical Institutional Economic Analysis Through Simulation and Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
601. C. Thomas Howard. 2013. The Behavioral Market. *SSRN Electronic Journal* . [[Crossref](#)]
602. David Chambers, Elroy Dimson. 2013. John Maynard Keynes, the Investment Innovator. *SSRN Electronic Journal* . [[Crossref](#)]
603. Diego A. Salzman, Remco C. J. Zwinkels. 2013. Behavioural Real Estate. *SSRN Electronic Journal* **5** . [[Crossref](#)]
604. Andre Nardy, Rubens Fama. 2013. Behavioral Finance from 2001-2012: Concepts, Themes and Academic Production. *SSRN Electronic Journal* . [[Crossref](#)]
605. Philip Clarke Pilkington. 2013. A Stock-Flow Approach to a General Theory of Pricing. *SSRN Electronic Journal* . [[Crossref](#)]
606. Abdullah Alam. 2012. Terrorism and stock market development: causality evidence from Pakistan. *Journal of Financial Crime* **20**:1, 116-128. [[Crossref](#)]
607. Bohumil Stádník. 2012. TESTING OF MARKET PRICE DIRECTION DEPENDENCE ON US STOCK MARKET. *Business, Management and Education* **10**:2, 205-219. [[Crossref](#)]
608. Bala Arshanapalli, William Nelson. Applying Cointegration to Problems in Finance . [[Crossref](#)]

609. Mario Schijven, Michael A. Hitt. 2012. The vicarious wisdom of crowds: toward a behavioral perspective on investor reactions to acquisition announcements. *Strategic Management Journal* 33:11, 1247-1268. [[Crossref](#)]
610. Seth Armitage, Shanti P. Chakravarty, Lynn Hodgkinson, Jo Wells. 2012. Are there arbitrage gaps in the UK gilt strips market?. *Journal of Banking & Finance* 36:11, 3080-3090. [[Crossref](#)]
611. Manuel R. Agosin, Franklin Huaita. 2012. Overreaction in capital flows to emerging markets: Booms and sudden stops. *Journal of International Money and Finance* 31:5, 1140-1155. [[Crossref](#)]
612. Gylfi Zoega. 2012. Employment and asset prices. *Applied Economics* 44:26, 3343-3355. [[Crossref](#)]
613. A. Kanakaraj, B. Karan Singh. 2012. Les liens entre la rentabilité des actions et les fondamentaux macroéconomiques en Inde. *Revue d'économie financière* N° 107:3, 181-198. [[Crossref](#)]
614. JEAN-BERNARD CHATELAIN, KIRSTEN RALF. 2012. THE FAILURE OF FINANCIAL MACROECONOMICS AND WHAT TO DO ABOUT IT. *The Manchester School* 80:s1, 21-53. [[Crossref](#)]
615. Thomas Schildbach. 2012. Fair value accounting und Information des Markts. *Schmalenbachs Zeitschrift für betriebswirtschaftliche Forschung* 64:5, 522-535. [[Crossref](#)]
616. C. Peter Timmer. 2012. Behavioral dimensions of food security. *Proceedings of the National Academy of Sciences* 109:31, 12315-12320. [[Crossref](#)]
617. Rayenda Khresna Brahmna, Chee-Wooi Hooy, Zamri Ahmad. 2012. Weather, investor irrationality and day-of-the-week anomaly: case of Indonesia. *Journal of Bioeconomics* 14:2, 129-146. [[Crossref](#)]
618. Louis-Philippe Rochon, Peter Docherty. 2012. Engagement with the Mainstream in the Future of Post Keynesian Economics. *Review of Political Economy* 24:3, 503-518. [[Crossref](#)]
619. . European Financial Markets 129-168. [[Crossref](#)]
620. Russ Ray. 2012. Managing Financial Risk Via Prediction Markets. *The Journal of Investing* 21:2, 76-80. [[Crossref](#)]
621. Moawia Alghalith, Christos Floros, Marla Dukharan. 2012. Testing dominant theories and assumptions in behavioral finance. *The Journal of Risk Finance* 13:3, 262-268. [[Crossref](#)]
622. Russ Ray. 2012. Managing Financial Risk Via Prediction Markets. *The Journal of Investing* 120504002246006. [[Crossref](#)]
623. Gil Cohen. 2012. Investors' Exposure Rating and Stock Returns. *Journal of Behavioral Finance* 13:2, 143-146. [[Crossref](#)]
624. Charles G. Leathers, J. Patrick Raines. 2012. Intuitive psychology, natural experiments, and the Greenspan-Bernanke conceptual framework for responding to financial crises. *International Journal of Social Economics* 39:4, 281-295. [[Crossref](#)]
625. NERISSA C. BROWN, THEODORE E. CHRISTENSEN, W. BROOKE ELLIOTT, RICHARD D. MERGENTHALER. 2012. Investor Sentiment and Pro Forma Earnings Disclosures. *Journal of Accounting Research* 50:1, 1-40. [[Crossref](#)]
626. Utpal Bhattacharya, Craig W. Holden, Stacey Jacobsen. 2012. Penny Wise, Dollar Foolish: Buy-Sell Imbalances On and Around Round Numbers. *Management Science* 58:2, 413-431. [[Crossref](#)]
627. Steve Sapra, Laura E. Beavin, Paul J. Zak. 2012. A Combination of Dopamine Genes Predicts Success by Professional Wall Street Traders. *PLoS ONE* 7:1, e30844. [[Crossref](#)]
628. . References 177-189. [[Crossref](#)]
629. . Bibliography 273-276. [[Crossref](#)]
630. Rolando F. Peláez. 2012. The housing bubble in real-time: the end of innocence. *Journal of Economics and Finance* 36:1, 211-225. [[Crossref](#)]

631. Theodore T. Koutsobinas. 2012. Portfolio Allocation, Liquidity-Preference and the q Ratio: A Reassessment of the Contributions of Tobin and Kahn. *Review of Political Economy* 24:1, 69-86. [[Crossref](#)]
632. Celso Brunetti, David Reiffen. 2012. Commodity Index Trading and Hedging Costs. *SSRN Electronic Journal* . [[Crossref](#)]
633. J.B. Heaton, Nick Polson. 2012. Smart Money, Dumb Money, and Learning Type from Price. *SSRN Electronic Journal* . [[Crossref](#)]
634. Maria Socorro Gochoco-Bautista, Eli M. Remolona. 2012. Going Regional: How to Deepen ASEAN's Financial Markets. *SSRN Electronic Journal* . [[Crossref](#)]
635. Ernst Juerg Weber, Amy Khuu. 2012. How Australian Farmers Deal with Risk. *SSRN Electronic Journal* . [[Crossref](#)]
636. Carlo Zappia. 2012. Re-Reading Keynes after the Crisis: Probability and Decision. *SSRN Electronic Journal* . [[Crossref](#)]
637. Jean-Bernard Chatelain, Kirsten Ralf. 2012. The Failure of Financial Macroeconomics and What to Do About it. *SSRN Electronic Journal* . [[Crossref](#)]
638. Saumya Ranjan Dash, Jitendra Mahakud. 2012. Investor Sentiment and Stock Price: Evidence from India. *SSRN Electronic Journal* . [[Crossref](#)]
639. Maryam H. A. Beigi, Oliver Budzinski. 2012. On the Use of Event Studies to Evaluate Economic Policy Decisions: A Note of Caution. *SSRN Electronic Journal* . [[Crossref](#)]
640. Jürgen Jacobs. Früherkennung kritischer Aktienkursentwicklungen 121-137. [[Crossref](#)]
641. Johannes-Jörg Riegler, Tobias Basse, Stefan Große. Krisenfrühaufklärung durch Frühwarnindikatoren 323-343. [[Crossref](#)]
642. Robert W. Kolb. Ethical Implications of Finance 21-43. [[Crossref](#)]
643. Elettra Agliardi, Rainer Andergassen. 2011. (S,s)-adjustment Strategies and Hedging under Markovian Dynamics. *The Geneva Risk and Insurance Review* 36:2, 112-131. [[Crossref](#)]
644. Lukas Menkhoff. 2011. Are momentum traders different? Implications for the momentum puzzle. *Applied Economics* 43:29, 4415-4430. [[Crossref](#)]
645. Christian Rehring, Steffen Sebastian. 2011. Dynamics of commercial real estate asset markets, return volatility and the investment horizon. *Journal of Property Research* 28:4, 291-315. [[Crossref](#)]
646. Cory A. Cassell, Michael S. Drake, Stephanie J. Rasmussen. 2011. Short Interest as a Signal of Audit Risk*. *Contemporary Accounting Research* 28:4, 1278-1297. [[Crossref](#)]
647. Grahame Thompson. 2011. SOURCES OF FINANCIAL SOCIABILITY. *Journal of Cultural Economy* 4:4, 405-421. [[Crossref](#)]
648. . Références bibliographiques 331-340. [[Crossref](#)]
649. J. K. Ashton, B. Gerrard, R. Hudson. 2011. Do national soccer results really impact on the stock market?. *Applied Economics* 43:26, 3709-3717. [[Crossref](#)]
650. Zhiping Chen, Qihong Duan. 2011. New models of trader beliefs and their application for explaining financial bubbles. *Economic Modelling* 28:5, 2215-2227. [[Crossref](#)]
651. Philipp G. Sandner, Joern Block. 2011. The market value of R&D, patents, and trademarks. *Research Policy* 40:7, 969-985. [[Crossref](#)]
652. Håkon Dalby Trætterberg. 2011. Animal Spirits in Iceland. *European Political Science* 10:3, 301-311. [[Crossref](#)]
653. Ricardo Pinheiro-Alves. 2011. Behavioural influences in Portuguese foreign direct investment. *The Journal of Socio-Economics* 40:4, 394-403. [[Crossref](#)]

654. Jenni L. Bettman, Mitch Kosev, Stephen J Sault. 2011. Exploring the asset growth effect in the Australian equity market. *Australian Journal of Management* 36:2, 200-216. [[Crossref](#)]
655. Xu Li. 2011. Behavioral theories and the pricing of IPOs' discretionary current accruals. *Review of Quantitative Finance and Accounting* 37:1, 87-104. [[Crossref](#)]
656. M. R. Agosin, F. Huaita. 2011. Capital flows to emerging economies: Minsky in the tropics. *Cambridge Journal of Economics* 35:4, 663-683. [[Crossref](#)]
657. J. Patrick Raines, Charles G. Leathers. 2011. Behavioral finance and Post Keynesian-institutionalist theories of financial markets. *Journal of Post Keynesian Economics* 33:4, 539-554. [[Crossref](#)]
658. Mark C. Freeman. 2011. THE TIME-VARYING EQUITY PREMIUM AND THE S&P 500 IN THE TWENTIETH CENTURY. *Journal of Financial Research* 34:2, 179-215. [[Crossref](#)]
659. D. Helbing, S. Ballezzi, S. Bishop, P. Lukowicz. 2011. Understanding, creating, and managing complex techno-socio-economic systems: Challenges and perspectives. *The European Physical Journal Special Topics* 195:1, 165-186. [[Crossref](#)]
660. Alan Gregory. 2011. The Expected Cost of Equity and the Expected Risk Premium in the UK. *Review of Behavioural Finance* 3:1, 1-26. [[Crossref](#)]
661. John Livanas. 2011. Are Investors Rational and Does it Matter? Determining the Expected Utility Function for a Group of Investors. *Journal of Behavioral Finance* 12:2, 53-67. [[Crossref](#)]
662. Khamis H. Al-Yahyaee, Toan M. Pham, Terry S. Walter. 2011. The information content of cash dividend announcements in a unique environment. *Journal of Banking & Finance* 35:3, 606-612. [[Crossref](#)]
663. Bertram Scheufele, Alexander Haas, Hans-Bernd Brosius. 2011. Mirror or Molder? A Study of Media Coverage, Stock Prices, and Trading Volumes in Germany. *Journal of Communication* 61:1, 48-70. [[Crossref](#)]
664. Ursula Hansen, Alexander Brink, Henry Schäfer, Hans-Ulrich Küpper, Philipp Schreck. *Bereichsethiken* 349-385. [[Crossref](#)]
665. Jing-Rong Chang, Liang-Ying Wei, Ching-Hsue Cheng. 2011. A hybrid ANFIS model based on AR and volatility for TAIEX forecasting. *Applied Soft Computing* 11:1, 1388-1395. [[Crossref](#)]
666. Hui Bu. 2011. Price Dynamics and Speculators in Crude Oil Futures Market. *Systems Engineering Procedia* 2, 114-121. [[Crossref](#)]
667. George DeMartino. The Economic Crisis and the Crisis in Economics 25-44. [[Crossref](#)]
668. Xiaoquan Zhang, Lihong Zhang. Internet-Facilitated Feedback Trading 1-10. [[Crossref](#)]
669. Konstantinos Drakos. 2011. Behavioral Channels in the Cross-Market Diffusion of Major Terrorism Shocks. *Risk Analysis* 31:1, 143-159. [[Crossref](#)]
670. Srinivasan Maheswaran, G. Balasubramanian, Chirackel Ahammed Yoonus. 2011. Opening Jump and Noise Trading. *SSRN Electronic Journal* . [[Crossref](#)]
671. Bernhard Mahlberg, Peter R. Haiss, Hannes Juven. 2011. The Impact of Financial Crises on the Finance-Growth Relationship: A European Perspective. *SSRN Electronic Journal* . [[Crossref](#)]
672. Abderrazak Dhaoui. 2011. The Relationship Profitability-Trade Volume: Dynamism of Overconfidence in the Context of the Tunisian Market (La Relation Rentabilité-Volume des Transactions: Dynamisme de la Sur-Confiance Dans le Contexte du Marché Tunisien) (French). *SSRN Electronic Journal* . [[Crossref](#)]
673. John Ifcher, Homa Zarghamee. 2011. Positive Affect and Overconfidence: A Laboratory Investigation. *SSRN Electronic Journal* . [[Crossref](#)]
674. Steven S. Kan. 2011. Two Trading Procedures Contrasted: One Filter and One Prism. *SSRN Electronic Journal* 92. . [[Crossref](#)]

675. Patrick J. Bayer, Christopher Geissler, James W. Roberts. 2011. Speculators and Middlemen: The Role of Flippers in the Housing Market. *SSRN Electronic Journal* . [[Crossref](#)]
676. Guangdi Gordon Chang, Fulwood Chen. 2011. CEO Behavior and Subprime Mortgage Crisis. *SSRN Electronic Journal* . [[Crossref](#)]
677. Russ Ray. 2011. Managing Financial Risk via Prediction Markets. *SSRN Electronic Journal* . [[Crossref](#)]
678. Benjamin Williams. 2011. Speculative Bubbles Dynamics and the Role of Anchoring. *SSRN Electronic Journal* . [[Crossref](#)]
679. Matthew J. Salois, Charles B. Moss. 2011. An Information Approach to the Dynamics in Farm Income: Implications for Farmland Markets. *Entropy* **13**:1, 38-52. [[Crossref](#)]
680. Marco Terrones, M. Ayhan Kose, Stijn Claessens. 2011. How Do Business and Financial Cycles Interact?. *IMF Working Papers* **11**:88, 1. [[Crossref](#)]
681. David Weisbach. Instrument Choice Is Instrument Design 113-158. [[Crossref](#)]
682. A. Kirman. 2010. The Economic Crisis is a Crisis for Economic Theory. *CESifo Economic Studies* **56**:4, 498-535. [[Crossref](#)]
683. Kevin J. Lansing. 2010. Rational and Near-Rational Bubbles Without Drift. *The Economic Journal* **120**:549, 1149-1174. [[Crossref](#)]
684. Lukas Menkhoff. 2010. The use of technical analysis by fund managers: International evidence. *Journal of Banking & Finance* **34**:11, 2573-2586. [[Crossref](#)]
685. SATOSHI SUZUKI, YOSHITO HIRATA, KAZUYUKI AIHARA. 2010. DEFINITION OF DISTANCE FOR MARKED POINT PROCESS DATA AND ITS APPLICATION TO RECURRENCE PLOT-BASED ANALYSIS OF EXCHANGE TICK DATA OF FOREIGN CURRENCIES. *International Journal of Bifurcation and Chaos* **20**:11, 3699-3708. [[Crossref](#)]
686. Richard J. Taffler. the Representativeness Heuristic 259-276. [[Crossref](#)]
687. N. Crafts, P. Fearon. 2010. Lessons from the 1930s Great Depression. *Oxford Review of Economic Policy* **26**:3, 285-317. [[Crossref](#)]
688. Konstantinos Drakos. 2010. Terrorism activity, investor sentiment, and stock returns. *Review of Financial Economics* **19**:3, 128-135. [[Crossref](#)]
689. Björn-Christopher Witte. 2010. Temporal information gaps and market efficiency: a dynamic behavioural analysis. *Applied Financial Economics* **20**:13, 1057-1070. [[Crossref](#)]
690. M. Imtiaz Mazumder, Nazneen Ahmad. 2010. Greed, financial innovation or laxity of regulation?. *Studies in Economics and Finance* **27**:2, 110-134. [[Crossref](#)]
691. Klaus Kraemer. 2010. Propheten der Finanzmärkte. *Berliner Journal für Soziologie* **20**:2, 179-201. [[Crossref](#)]
692. Tomaso Duso, Klaus Gugler, Burcin Yurtoglu. 2010. Is the event study methodology useful for merger analysis? A comparison of stock market and accounting data. *International Review of Law and Economics* **30**:2, 186-192. [[Crossref](#)]
693. Ran Duchin, Moshe Levy. 2010. Disagreement, Portfolio Optimization, and Excess Volatility. *Journal of Financial and Quantitative Analysis* **45**:3, 623-640. [[Crossref](#)]
694. Charles N. Noussair, Owen Powell. 2010. Peaks and valleys. *Journal of Economic Studies* **37**:2, 152-180. [[Crossref](#)]
695. Richard B. McKenzie. Problems with Behavioral Economics 227-263. [[Crossref](#)]
696. Kamel Naoui, Mohamed Khaled. 2010. Apport de la finance comportementale à l'explication de la volatilité excessive des prix des actifs financiers. *Revue Libanaise de Gestion et d'Économie* **3**:4, 65-99. [[Crossref](#)]

697. Kamel Naoui, Mohamed Khaled. 2010. Apport de la finance comportementale à l'explication de la volatilité excessive des prix des actifs financiers. *La Revue Gestion et Organisation* 3:4, 1-35. [[Crossref](#)]
698. Hans Sjögren, Sverre Knutsen. Why do Banking Crises Occur? An Evolutionary Model of Swedish Banking Crises 183-203. [[Crossref](#)]
699. Gene Callahan, Steven Horwitz. The role of ideal types in Austrian business cycle theory 205-224. [[Crossref](#)]
700. Rabah Amir, Igor V. Evstigneev, Klaus Reiner Schenk-Hoppé. 2010. Asset Market Games of Survival: A Synthesis of Evolutionary and Dynamic Games. *SSRN Electronic Journal* . [[Crossref](#)]
701. Jeffrey Shawn Henderson. 2010. CSR As Mythology. *SSRN Electronic Journal* . [[Crossref](#)]
702. Jenni L. Bettman, Mitch Kosev, Stephen Sault. 2010. Exploring the Asset Growth Effect in the Australian Equity Market. *SSRN Electronic Journal* . [[Crossref](#)]
703. Koon Boon Kee, Qihui Chen. 2010. Stock Return Synchronicity and Technical Trading Rules. *SSRN Electronic Journal* . [[Crossref](#)]
704. Ariane Szafarz. 2010. Financial Crises in Efficient Markets: How Fundamentalists Fuel Volatility. *SSRN Electronic Journal* 71. . [[Crossref](#)]
705. Stephan Schulmeister. 2010. Boom-Bust Cycles and Trading Practices in Asset Markets, the Real Economy and the Effects of a Financial Transactions Tax. *SSRN Electronic Journal* . [[Crossref](#)]
706. Carolyn G. Wirth, Jing Chi, Martin R. Young. 2010. The Economic Impact of Capital Expenditures: Environmental Regulatory Delay as a Source of Strategic Advantage?. *SSRN Electronic Journal* . [[Crossref](#)]
707. Kevin L. Meyer. 2010. Cross-Industry Consequences of Terrorism. *SSRN Electronic Journal* . [[Crossref](#)]
708. Wei Wu, Glenn Shafer. 2010. Testing Lead-Lag Effects under Game-Theoretic Efficient Market Hypotheses. *SSRN Electronic Journal* . [[Crossref](#)]
709. Angelos T. Vouldis. Financial Markets Analysis: Can Nonlinear Science Contribute? 209-243. [[Crossref](#)]
710. Matthias Pickl, Erich Wagner, Franz Wirl. 2009. The impact of introducing seven-day-trading on the Austrian electricity market. *Zeitschrift für Energiewirtschaft* 33:4, 322-329. [[Crossref](#)]
711. Tomasz Piotr Wisniewski. 2009. Can political factors explain the behaviour of stock prices beyond the standard present value models?. *Applied Financial Economics* 19:23, 1873-1884. [[Crossref](#)]
712. Shuba Srinivasan, Dominique M. Hanssens. 2009. Marketing et valeur de l'entreprise: mesures, méthodes, résultats et voies futures de recherche. *Recherche et Applications en Marketing (French Edition)* 24:4, 97-130. [[Crossref](#)]
713. Jianxin (Daniel) Chi, Manu Gupta. 2009. Overvaluation and earnings management. *Journal of Banking & Finance* 33:9, 1652-1663. [[Crossref](#)]
714. Lukas Menkhoff, Marina Nikiforow. 2009. Professionals' endorsement of behavioral finance: Does it impact their perception of markets and themselves?. *Journal of Economic Behavior & Organization* 71:2, 318-329. [[Crossref](#)]
715. Geoff Lightfoot, Simon Lilley, Peter Pelzer. 2009. Motivating risk? The sublime supplement of market exchange. *Society and Business Review* 4:2, 110-122. [[Crossref](#)]
716. Shuba Srinivasan, Dominique M. Hanssens. 2009. Marketing and Firm Value: Metrics, Methods, Findings, and Future Directions. *Journal of Marketing Research* 46:3, 293-312. [[Crossref](#)]
717. Shujie Yao, Dan Luo. 2009. The Economic Psychology of Stock Market Bubbles in China. *World Economy* 32:5, 667-691. [[Crossref](#)]

718. Tongkui Yu, Honggang Li. Traders' Behavioral Propensities and Stock Market Dynamic Regimes in a Stochastic Multi-agent Model 3-7. [[Crossref](#)]
719. John H. Huston, Roger W. Spencer. 2009. Speculative excess and the Federal Reserve's response. *Studies in Economics and Finance* **26**:1, 46-61. [[Crossref](#)]
720. Jeffery S. McMullen, Dean A. Shepherd, Holger Patzelt. 2009. Managerial (In)attention to Competitive Threats. *Journal of Management Studies* **46**:2, 157-181. [[Crossref](#)]
721. Joachim Zietz, Xiaolin Zhao. 2009. The short-run impact of the stock market appreciation of the 1980s and 1990s on U.S. income inequality. *The Quarterly Review of Economics and Finance* **49**:1, 42-53. [[Crossref](#)]
722. . European Financial Markets 63-106. [[Crossref](#)]
723. Nathan S. Balke, Mark E. Wohar. 2009. Market fundamentals versus rational bubbles in stock prices: a Bayesian perspective. *Journal of Applied Econometrics* **24**:1, 35-75. [[Crossref](#)]
724. Jørgen Vitting Andersen. Investment Decision Making in Finance, Models of 4971-4983. [[Crossref](#)]
725. S.R. Vishwanath. Market Efficiency: Theory, Tests and Applications 497-515. [[Crossref](#)]
726. Stefan Palan. Introduction and Motivation 1-9. [[Crossref](#)]
727. Stefan Palan. Results 87-136. [[Crossref](#)]
728. Tongkui Yu, Honggang Li. Dynamic Regimes of a Multi-agent Stock Market Model 2016-2028. [[Crossref](#)]
729. Carl Chiarella, Roberto Dieci, Xue-Zhong He. Heterogeneity, Market Mechanisms, and Asset Price Dynamics 277-344. [[Crossref](#)]
730. Gregor Dorfleitner, Christian Klein. 2009. Psychological barriers in European stock markets: Where are they?. *Global Finance Journal* **19**:3, 268-285. [[Crossref](#)]
731. David A. Weisbach. 2009. Instrument Choice is Instrument Design. *SSRN Electronic Journal* . [[Crossref](#)]
732. Sulkhan Metreveli. 2009. Media Trend Hypothesis; Explaining Unexplainable: Why Media is so Sure What it Says is Really True. *SSRN Electronic Journal* . [[Crossref](#)]
733. Ariane Szafarz. 2009. How Did Financial-Crisis-Based Criticisms of Market Efficiency Get it so Wrong?. *SSRN Electronic Journal* **44**. . [[Crossref](#)]
734. Stephan Schulmeister. 2009. Asset Price Fluctuations, Financial Crises and the Stabilizing Effects of a General Transaction Tax. *SSRN Electronic Journal* . [[Crossref](#)]
735. Samya Beidas-Strom, Weicheng Lian, Ashwaq Maseeh. 2009. The Housing Cycle in Emerging Middle Eastern Economies and its Macroeconomic Policy Implications. *IMF Working Papers* **09**:288, 1. [[Crossref](#)]
736. Soosung Hwang, Byung Khun Song. 2008. 'Irrational exuberance' in the long-run UK stock market. *Applied Economics* **40**:24, 3199-3211. [[Crossref](#)]
737. Yuval Nov, Oded Nov. 2008. Living in a bubble? Toward a unified bubble theory. *International Journal of General Systems* **37**:5, 627-635. [[Crossref](#)]
738. Charles G. Leathers, J. Patrick Raines. 2008. John Kenneth Galbraith's Contributions to the Theory and Analysis of Speculative Financial Markets. *Review of Political Economy* **20**:4, 551-568. [[Crossref](#)]
739. Shao-Chi Chang, Sheng-Syan Chen, Robin K. Chou, Yueh-Hsiang Lin. 2008. Weather and intraday patterns in stock returns and trading activity. *Journal of Banking & Finance* **32**:9, 1754-1766. [[Crossref](#)]
740. Daniela Beckmann, Lukas Menkhoff, Megumi Suto. 2008. Does culture influence asset managers' views and behavior?. *Journal of Economic Behavior & Organization* **67**:3-4, 624-643. [[Crossref](#)]

741. Deborah Kay Elms. 2008. New Directions for IPE: Drawing From Behavioral Economics. *International Studies Review* 10:2, 239-265. [[Crossref](#)]
742. Gili Yen, Cheng-few Lee. 2008. Efficient Market Hypothesis (EMH): Past, Present and Future. *Review of Pacific Basin Financial Markets and Policies* 11:02, 305-329. [[Crossref](#)]
743. Refet S. Gürkaynak. 2008. ECONOMETRIC TESTS OF ASSET PRICE BUBBLES: TAKING STOCK. *Journal of Economic Surveys* 22:1, 166-186. [[Crossref](#)]
744. Xue-Zhong He, Philip Hamill, Youwei Li. Can Trend Followers Survive in the Long-Run? Insights from Agent-Based Modeling 253-269. [[Crossref](#)]
745. Jürgen Huber, Michael Kirchler, Matthias Sutter. 2008. Is more information always better?. *Journal of Economic Behavior & Organization* 65:1, 86-104. [[Crossref](#)]
746. Paul Windolf. 2008. Eigentümer ohne Risiko / Owners without Risk. *Zeitschrift für Soziologie* 37:6. . [[Crossref](#)]
747. Feker Bayouhdh, Moez Elgaied. 2008. Limited Arbitrage: The Paralysis of the Regulating Mechanism of Financial Markets. *SSRN Electronic Journal* . [[Crossref](#)]
748. Mark C. Freeman. 2008. The Time-Varying Equity Premium and Secular Bull and Bear Markets of the Twentieth Century. *SSRN Electronic Journal* . [[Crossref](#)]
749. Hendri Adriaens, Bas Donkers, Bertrand Melenberg. 2008. Ambiguity, no Arbitrage, and the Limits to Rational Expectations. *SSRN Electronic Journal* 75. . [[Crossref](#)]
750. Feker Bayouhdh, Moez Elgaied. 2008. The Closed-End Fund Puzzle Between Classical Finance and Behavioral Finance: A Survey. *SSRN Electronic Journal* . [[Crossref](#)]
751. Kevin J. Lansing. 2008. Speculative Growth and Overreaction to Technology Shocks. *SSRN Electronic Journal* 26. . [[Crossref](#)]
752. Carl Chiarella, Roberto Dieci, Xuezhong He. 2008. Heterogeneity, Market Mechanisms, and Asset Price Dynamics. *SSRN Electronic Journal* . [[Crossref](#)]
753. Stephan Schulmeister. 2008. A General Financial Transaction Tax Motives, Revenues, Feasibility and Effects. *SSRN Electronic Journal* . [[Crossref](#)]
754. Claudio F. Loderer, Lukas Roth. 2008. Do Cash Distributions Justify Share Prices?. *SSRN Electronic Journal* . [[Crossref](#)]
755. Ernst Juerg Weber. 2008. The Role of the Real Interest Rate in U.S. Macroeconomic History. *SSRN Electronic Journal* . [[Crossref](#)]
756. L. GIL. 2007. A SIMPLE ALGORITHM BASED ON FLUCTUATIONS TO PLAY THE MARKET. *Fluctuation and Noise Letters* 07:04, L405-L418. [[Crossref](#)]
757. Howard Moskowitz, Samuel Rabino, Alex Gofman, Daniel Moskowitz. 2007. Effective and confident communications in the midst of a major crisis. *International Journal of Pharmaceutical and Healthcare Marketing* 1:4, 318-348. [[Crossref](#)]
758. Craig R. Carter, Lutz Kaufmann, Alex Michel. 2007. Behavioral supply management: a taxonomy of judgment and decision-making biases. *International Journal of Physical Distribution & Logistics Management* 37:8, 631-669. [[Crossref](#)]
759. Cheol-Ho Park, Scott H. Irwin. 2007. WHAT DO WE KNOW ABOUT THE PROFITABILITY OF TECHNICAL ANALYSIS?. *Journal of Economic Surveys* 21:4, 786-826. [[Crossref](#)]
760. Tina L. Saitone, Richard J. Sexton. 2007. Alpaca Lies? Speculative Bubbles in Agriculture: Why They Happen and How to Recognize Them. *Review of Agricultural Economics* 29:2, 286-305. [[Crossref](#)]
761. ANDREW C. WORTHINGTON. 2007. NATIONAL EXUBERANCE: A NOTE ON THE MELBOURNE CUP EFFECT IN AUSTRALIAN STOCK RETURNS. *Economic Papers: A journal of applied economics and policy* 26:2, 170-179. [[Crossref](#)]

762. Mihir A. Desai, Dhammika Dharmapala, Winnie Fung. Taxation and the Evolution of Aggregate Corporate Ownership Concentration 345-383. [[Crossref](#)]
763. Denis Kan, B. Andreosso-O'Callaghan. 2007. Examination of the efficient market hypothesis—the case of post-crisis Asia Pacific countries. *Journal of Asian Economics* **18**:2, 294-313. [[Crossref](#)]
764. Sabrina Helm. 2007. The Role of Corporate Reputation in Determining Investor Satisfaction and Loyalty. *Corporate Reputation Review* **10**:1, 22-37. [[Crossref](#)]
765. Bruno S. Frey, Simon Luechinger, Alois Stutzer. 2007. CALCULATING TRAGEDY: ASSESSING THE COSTS OF TERRORISM. *Journal of Economic Surveys* **21**:1, 1-24. [[Crossref](#)]
766. Torben Lütje, Lukas Menkhoff. 2007. What drives home bias? Evidence from fund managers' views. *International Journal of Finance & Economics* **12**:1, 21-35. [[Crossref](#)]
767. Klaus Moser, Roman Soucek. *Wirtschaftspsychologie und die Natur des Menschen* 401-415. [[Crossref](#)]
768. Xiaoyi Mu. 2007. Weather, storage, and natural gas price dynamics: Fundamentals and volatility. *Energy Economics* **29**:1, 46-63. [[Crossref](#)]
769. Maik Schmeling. 2007. Institutional and individual sentiment: Smart money and noise trader risk?. *International Journal of Forecasting* **23**:1, 127-145. [[Crossref](#)]
770. Tomasz Piotr Wisniewski. 2007. Can Political Factors Explain the Behavior of Stock Prices Beyond the Standard Present Value Models?. *SSRN Electronic Journal* . [[Crossref](#)]
771. A. Kanakaraj, Karan Singh, Dony Alex. 2007. Stock Prices, Micro Reasons and Macro Economy in India: What Do Data Say between 1997-2007?. *SSRN Electronic Journal* **108** . [[Crossref](#)]
772. Hongying Sun. 2007. Simple Comparisons between Mature and Immature Stock Markets. *SSRN Electronic Journal* . [[Crossref](#)]
773. Tomaso Duso, Klaus Peter Gugler, B. Burcin Yurtoglu. 2007. Is the Event Study Methodology Useful for Merger Analysis? A Comparison of Stock Market and Accounting Data. *SSRN Electronic Journal* . [[Crossref](#)]
774. Joanne Horton, Richard H. Macve, George Serafeim. 2007. Market Consistent Embedded Values as 'Fair Value' Measurements for Life Insurance Accounting: A Step Too Far With Finance Theory?. *SSRN Electronic Journal* . [[Crossref](#)]
775. Kevin J. Lansing. 2007. Rational and Near-Rational Bubbles Without Drift. *SSRN Electronic Journal* **26** . [[Crossref](#)]
776. Alberto Chilosi, Mirella Damiani. 2007. Stakeholders vs. Shareholders in Corporate Governance. *SSRN Electronic Journal* . [[Crossref](#)]
777. Michael B. Abramowicz. 2007. The Hidden Beauty of the Quadratic Market Scoring Rule: A Uniform Liquidity Market Maker, with Variations. *SSRN Electronic Journal* . [[Crossref](#)]
778. Marian Berneburg. 2007. Excess Volatility in European Equity Style Indices - New Evidence. *SSRN Electronic Journal* . [[Crossref](#)]
779. Marian Berneburg. 2007. Systematic Mispricing in European Equity Prices?. *SSRN Electronic Journal* . [[Crossref](#)]
780. Feng Xiao. 2007. Irrational exuberance and stock market valuations: evidence from China. *Journal of Post Keynesian Economics* **29**:2, 285-308. [[Crossref](#)]
781. R Cross, M Grinfeld, H Lamba. 2006. A mean-field model of investor behaviour. *Journal of Physics: Conference Series* **55**, 55-62. [[Crossref](#)]
782. JEFF FLEMING, CHRIS KIRBY, BARBARA OSTDIEK. 2006. Information, Trading, and Volatility: Evidence from Weather-Sensitive Markets. *The Journal of Finance* **61**:6, 2899-2930. [[Crossref](#)]

783. Bernhard Eckwert, Andreas Szcztkowski. 2006. Rationally mispriced assets in equilibrium. *Spanish Economic Review* 8:4, 285-299. [[Crossref](#)]
784. KEVIN J. LANSING. 2006. LOCK-IN OF EXTRAPOLATIVE EXPECTATIONS IN AN ASSET PRICING MODEL. *Macroeconomic Dynamics* 10:3, 317-348. [[Crossref](#)]
785. Carole Comerton-Forde, James Rydge. 2006. Market Integrity and Surveillance Effort. *Journal of Financial Services Research* 29:2, 149-172. [[Crossref](#)]
786. MARK G. HAYES. 2006. Value and probability. *Journal of Post Keynesian Economics* 28:3, 527-538. [[Crossref](#)]
787. Jürgen Huber, Michael Kirchler, Matthias Sutter. 2006. Vom Nutzen zusätzlicher Information auf Märkten mit unterschiedlich informierten Händlern — Eine experimentelle Studie. *Schmalenbachs Zeitschrift für betriebswirtschaftliche Forschung* 58:2, 188-211. [[Crossref](#)]
788. Charles P. Jones, Jack W. Wilson. 2006. The Impact of Inflation Measures on the Real Returns and Risk of U.S. Stocks. *The Financial Review* 41:1, 77-94. [[Crossref](#)]
789. Blake LeBaron. Chapter 24 Agent-based Computational Finance 1187-1233. [[Crossref](#)]
790. James S. Ang, Gregory Leo Nagel, Jun Yang. 2006. A Critical Long View of Capital Markets and Institutions: Realized Returns from Corporate Assets, 1950-2003. *SSRN Electronic Journal* . [[Crossref](#)]
791. Anders Karlsson, Lars L. Norden. 2006. Benefits of Contribution: Individual Asset Allocation, Diversification and Welfare in a Defined Contribution Pension System. *SSRN Electronic Journal* . [[Crossref](#)]
792. Gerhard Fink, Peter R. Haiss, Sirma Hristoforova. 2006. Credit, Bonds, Stocks and Growth in Seven Large Economies. *SSRN Electronic Journal* . [[Crossref](#)]
793. John R. Nofsinger. 2005. Social Mood and Financial Economics. *Journal of Behavioral Finance* 6:3, 144-160. [[Crossref](#)]
794. Lukas Menkhoff*, Ulrich Schmidt. 2005. The use of trading strategies by fund managers: some first survey evidence. *Applied Economics* 37:15, 1719-1730. [[Crossref](#)]
795. John Sabelhaus. 2005. Alternative Methods for Projecting Equity Returns: Implications for Evaluating Social Security Reform Proposals. *Risk Management & Insurance Review* 8:1, 43-63. [[Crossref](#)]
796. Jürgen Huber, Michael Kirchler, Matthias Sutter. On the Benefit of Additional Information in Markets with Heterogeneously Informed Agents — an Experimental Study 41-52. [[Crossref](#)]
797. Lukas Junker. References 367-445. [[Crossref](#)]
798. Peter Hans Matthews. 2005. Paradise lost and found? The econometric contributions of Clive W. J. Granger and Robert F. Engle. *Review of Political Economy* 17:1, 1-28. [[Crossref](#)]
799. Shaun A. Bond, Soosung Hwang. 2005. Smoothing, Nonsynchronous Appraisal and Cross-Sectional Aggregation in Real Estate Price Indices. *SSRN Electronic Journal* . [[Crossref](#)]
800. Jeff Fleming, Chris Kirby, Barbara Ostdiek. 2005. Information, Trading and Volatility: Evidence from Weather-Sensitive Markets. *SSRN Electronic Journal* . [[Crossref](#)]
801. Refet S. Gurkaynak. 2005. Econometric Tests of Asset Price Bubbles: Taking Stock. *SSRN Electronic Journal* . [[Crossref](#)]
802. Victor Ricciardi. 2005. A Research Starting Point for the New Scholar: A Unique Perspective of Behavioral Finance. *SSRN Electronic Journal* . [[Crossref](#)]
803. Gerard J. Charreaux. 2005. Toward a Behavioral Corporate Governance Theory: An Exploratory View. *SSRN Electronic Journal* . [[Crossref](#)]

804. Mihir A. Desai, Dhammika Dharmapala, Winnie Fung. 2005. Taxation and the Evolution of Aggregate Corporate Ownership Concentration. *SSRN Electronic Journal* . [[Crossref](#)]
805. Asad Kausar, Richard J. Taffler. 2005. Testing Behavioral Finance Models of Market Under- and Overreaction: Do they Really Work?. *SSRN Electronic Journal* . [[Crossref](#)]
806. Bernhard Eckwert, Burkhard Drees. 2005. Asset Mispricing Due to Cognitive Dissonance. *IMF Working Papers* **05**:9, 1. [[Crossref](#)]
807. Refet S. Gürkaynak. 2005. Econometric Tests of Asset Price Bubbles: Taking Stock. *Finance and Economics Discussion Series* **2005**:04, 1-32. [[Crossref](#)]
808. Wesley S. Chan, Richard Frankel, S.P. Kothari. 2004. Testing behavioral finance theories using trends and consistency in financial performance. *Journal of Accounting and Economics* **38**, 3-50. [[Crossref](#)]
809. Soosung Hwang, Mark Salmon. 2004. Market stress and herding. *Journal of Empirical Finance* **11**:4, 585-616. [[Crossref](#)]
810. 2004. Book Reviews. *Journal of Economic Literature* **42**:3, 838-890. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
811. Stephen F. LeRoy. 2004. Rational Exuberance. *Journal of Economic Literature* **42**:3, 783-804. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
812. Livio Stracca. 2004. Behavioral finance and asset prices: Where do we stand?. *Journal of Economic Psychology* **25**:3, 373-405. [[Crossref](#)]
813. JACK L. KNETSCH. 2004. ECONOMICS, ECONOMISTS, AND BEHAVIOURAL ECONOMICS: SOME ISSUES OF CHOICE. *The Singapore Economic Review* **49**:01, 19-35. [[Crossref](#)]
814. Michelle C. Baddeley, Andrew Curtis, Rachel Wood. 2004. An introduction to prior information derived from probabilistic judgements: elicitation of knowledge, cognitive bias and herding. *Geological Society, London, Special Publications* **239**:1, 15-27. [[Crossref](#)]
815. Choong Yong Ahn, Baekin Cha. 2004. Financial Sector Restructuring in South Korea: Accomplishments and Unfinished Agenda. *Asian Economic Papers* **3**:1, 1-21. [[Crossref](#)]
816. Rodolfo Apeada. 2004. Differential Rates, Residual Information Sets and Transactional Algebras. *SSRN Electronic Journal* . [[Crossref](#)]
817. Torben Lütje, Lukas Menkhoff. 2004. What Drives Home Bias? Evidence from Fund Managers' Views. *SSRN Electronic Journal* . [[Crossref](#)]
818. Jung-Wook Kim, Jason Lee, Randall K. Morck. 2004. Heterogeneous Investors and their Changing Demand and Supply Schedules for Individual Common Stocks. *SSRN Electronic Journal* . [[Crossref](#)]
819. Nicola Nicoletti. 2004. On the Profitability of 12 Fundamental Analysis Strategies on the Nasdaq 100. *SSRN Electronic Journal* . [[Crossref](#)]
820. Kevin J. Lansing. 2004. Lock-in of Extrapolative Expectations in an Asset Pricing Model. *SSRN Electronic Journal* . [[Crossref](#)]
821. Pierre Monnin. 2004. Are Stock Markets Really Like Beauty Contests? Empirical Evidence of Higher Order Beliefs Impact on Asset Prices. *SSRN Electronic Journal* . [[Crossref](#)]
822. Cheol-Ho Park, Scott H. Irwin. 2004. The Profitability of Technical Analysis: A Review. *SSRN Electronic Journal* . [[Crossref](#)]
823. Soosung Hwang, Byung Khun Song. 2004. 'Irrational Exuberance' in the Long History of the UK Stock Market. *SSRN Electronic Journal* . [[Crossref](#)]
824. Louis Lowenstein. 2004. Searching for Rational Investors In a Perfect Storm. *SSRN Electronic Journal* **41** . [[Crossref](#)]

825. Syed Ali Abbas Naqvi. 2004. Does Kse-100 Index Follows a Random Walk: An Empirical Study. *SSRN Electronic Journal* . [[Crossref](#)]
826. Marian Berneburg. 2004. Are European Equity Style Indexes Mean Reverting? Testing the Validity of the Efficient Market Hypothesis. *SSRN Electronic Journal* . [[Crossref](#)]
827. Peggy E. Swanson, Anchor Y. Lin. 2003. The role of U.S. Investors in international equity market inflows, outflows, and net flows for selected emerging asian markets. *Journal of Economics and Finance* 27:3, 300-320. [[Crossref](#)]
828. Patrick Bisciari, Alain C. J. Durré, Alain Nyssens. 2003. Stock Market Valuation in the United States. *SSRN Electronic Journal* . [[Crossref](#)]
829. Raffaella Barone. 2003. From Efficient Markets to Behavioral Finance. *SSRN Electronic Journal* . [[Crossref](#)]
830. Torben Lütje, Lukas Menkhoff. Risk Management, Rational Herding and Institutional Investors: A Macro View 785-799. [[Crossref](#)]
831. Armin Töpfer, Christian Duchmann. Das Dresdner Modell des Wertorientierten Managements: Konzeption, Ziele und integrierte Sicht 3-63. [[Crossref](#)]
832. Olivier Brandoy, Philippe Mathieu. A Broad-Spectrum Computational Approach for Market Efficiency 47-61. [[Crossref](#)]
833. . Literatur 309-320. [[Crossref](#)]
834. Jörn Dermietzel. The Heterogeneous Agents Approach to Financial Markets – Development and Milestones 443-464. [[Crossref](#)]
835. Serafin Martinez-Jaramillo, Edward P. K. Tsang. Evolutionary Computation and Artificial Financial Markets 137-179. [[Crossref](#)]
836. Mustafa Okur, A. Osman Gurbuz. Behavioral Finance in Theory and Practice 311-328. [[Crossref](#)]
837. Mustafa Okur, A. Osman Gurbuz. A Competitive Approach to Financial Issues 385-398. [[Crossref](#)]
838. Salim Lahmiri. Prediction of International Stock Markets Based on Hybrid Intelligent Systems 1651-1667. [[Crossref](#)]