

SonderForschungsBereich 504

Rationalitätskonzepte, Entscheidungsverhalten und ökonomische Modellierung

No. 05-37

Overconfident but yet well-calibrated and underconfident: A research note on judgmental miscalibration and flawed self-assessment*

Patric Andersson*

September 2005

* An earlier version of this working paper was presented at the 20th conference on Subjective Probability Utility and Decision-Making (SPUDM 20) which took place in Stockholm, August 2005. Financial support from the Deutsche Forschungsgemeinschaft, SFB504, at the University of Mannheim is gratefully acknowledged. The paper has benefited from inspiring and stimulating talks with David Dunning, David Budescu, Denis Hilton, and Martin Weber. I also thank Adelson Piñón for helpful comments and insightful discussions.

*Sonderforschungsbereich 504, Universität Mannheim & Center for Economic Psychology, Stockholm School of Economics, email: ppa@hhs.se



Universität Mannheim L 13,15 68131 Mannheim

Overconfident but yet well-calibrated and underconfident:

A research note on judgmental miscalibration and flawed self-assessment*

Dr. Patric Andersson

Sonderforschungsbereich 504, Mannheim University, Germany

September 30, 2005

Correspondence concerning this paper should be sent to patric.andersson@hhs.se.

Abstract

The present paper addresses the question whether overconfidence is an individually stable phenomenon. A within-subjects design was used to investigate whether judgmental miscalibration also reflects tendency to make flawed self-assessments. While the former notion refers to the tendency of individuals to put unrealistic beliefs in their judgments, the latter concerns the tendency of individuals to make inaccurate evaluations of their abilities and performance. On the whole, the paper finds little support that those two tendencies should be related. Depending on the employed measurement, the participants were found to be simultaneously overconfident, well-calibrated, and underconfident.

Keywords: Academic performance; Calibration; Education; Overconfidence; Self-assessment

JEL Classification Code: A20; C90

^{*} An earlier version of this working paper was presented at the 20th conference on Subjective Probability Utility and Decision-Making (SPUDM 20) which took place in Stockholm, August 2005. Financial support from the Deutsche Forschungsgemeinschaft, SFB504, at the University of Mannheim is gratefully acknowledged. The paper has benefited from inspiring and stimulating talks with David Dunning, David Budescu, Denis Hilton, and Martin Weber. I also thank Adelson Piñón for helpful comments and insightful discussions.

INTRODUCTION

In their everyday life people assess various issues associated with varying degrees of economic consequences, risk, significance, stress, and uncertainty. Of course, there are many ways to categorize those appraisals (cf. Abelson & Levi, 1985; Svenson, 1996). One alternative way is to simply distinguish between appraisals related to entities and selves. Some examples may clarify this distinction. Entity-related appraisals can be illustrated by the following issues: (1) estimating earnings of a company, (2) predicting the outcome of the World Cup in football, (3) deciding whether a job candidate should be hired. Thus, such appraisals are in a sense distal to the individual. In contrast, self-related appraisals are arguably proximal to the individual and concern issues like evaluating one's own abilities, knowledge, performance, and skills. Henceforward, entity- and self-related appraisals will be referred to as judgments and self-assessments, respectively. Scientific evidence suggests that people overestimate the correctness of their judgments and make flawed self-assessments, implying that they are overconfident. This paper aims to shed light on how those phenomena relate.

Over the years, there has been extensive research on whether individuals put realistic belief in their judgments of entities (for reviews see Lichtenstein, Fischhoff & Phillips, 1982; McClelland & Bolger, 1994). Specifically, the tendency of individuals to be judgmentally calibrated has been extensively studied. This notion of calibration refers to what extent individuals assign adequate confidence levels to their judgments. To be well calibrated, the level of confidence in judgments must agree with the accuracy of those. For example, when individuals say that they are 80% sure that their judgments are correct, it is theoretically expected that 80% of those are correct. Such a perfect match between confidence and judgmental abilities means good meta-cognition skills or awareness of knowledge boundaries (cf. Russo & Schoemaker, 2002). A vast body of studies shows that individuals typically state

confidence levels exceeding the accuracy of their judgments, implying that they are miscalibrated and, accordingly, overconfident (Lichtenstein et al., 1982; McClelland & Bolger, 1994; Koehler, Brenner & Griffin, 2002). This tendency of overconfidence holds also for experts in most fields, except for weather forecasters and bridge players who are known to be calibrated (cf. Bolger & Wright, 1992).

Basically, two approaches have been used to study judgmental calibration (Klayman, Soll, González-Vallejoc & Barlas, 1999; Juslin & Olsson, 1999). Firstly, in the most commonly employed approach, participants face numerous of two-choice general knowledge questions (e.g., "Which of the following two cities is the capital of Australia: Sydney or Canberra?"). For each question, participants choose the alternative they think is correct and state their confidence in the choice on a scale, which often range from 50% to 100%. The second approach means that participants receive a list of general knowledge questions. For every question, they are asked to state an upper and lower limit such that they feel 90% sure that the limits cover the correct answers. This approach typically results in more extreme degree of overconfidence than when participants choose between two alternatives (Klayman et al., 1999). Nonetheless, a recent study suggests that the two approaches seem to give fairly consistent and coherent results (Budescu & Du, 2005).

It should be noted that the selection of questions has an impact on the degree of calibration. Hard and easy questions tend to be associated with over- and under-confidence (e.g., the tendency to have more correct judgments than expected by the assigned confidence) (Lichtenstein et al., 1982; Juslin & Olsson, 1999). Ideally, the questions should be sampled so that they are representative for the environment of the participants. Studies have shown that miscalibration disappears, or is reduced, when participants judge tasks that have been randomly drawn from a population of representative knowledge questions (Gigerenzer, Hoffrage & Kleinbölting, 1997; Juslin & Olsson, 1999)).

Self-assessment concerns a particular category of judgments dealing with evaluations of individuals' own abilities, performance, and skills. Self-assessments are very frequent and important in everyday life. When people chose to take certain actions (e.g., applying to advanced business schools, starting a career as a golf professional, and choosing to invest in stocks), they base their decisions on beliefs about their skills, expertise, and personality. It should be noted that this phenomenon, in a sense, relates to the overconfidence-construct of "better-than-average effect" (cf. Svenson, 1981). However, an important difference is that self-assessment does not necessarily involve comparisons to other people. Self-assessments are systematically flawed in that people overestimate their abilities (Dunning, Heath & Suls, 2005). Sometimes flawed self-assessments take the opposite direction: Participants who have been objectively classified as top-performers tend to underestimate their performance (Kruger & Dunning, 1999). Moreover, people are inclined to think they are above average when it comes to experience desirable outcomes and avoid undesirable outcomes (Dunning et al., 2005). Similarly, most people perceive that most types of risks are lower for them than for the general population (Sjöberg, 1999). However, the tendency among car drivers to believe they drive safer than average and, therefore, exposed to less risk (cf. Svenson, 1981) may not be irrational, because the distribution of accidents are, apparently, highly skewed meaning that the majority of drivers face less accidents that the average numbers of accidents (cf. Gigerenzer, 2002).

In conclusion, miscalibrated judgments and flawed self-assessment are constructs of overconfidence (and underconfidence). It seems reasonable to assume that they are related, but little seems to be known about their relationship. In essence, this concern connects to whether overconfidence is a stable cognitive phenomenon. Based on the two approaches to measure calibration, psychologists have found that research subjects, who have been deemed to be overconfident in one domain, also tend to be that in another domain (e.g., Klayman et

al., 1999; Jonsson & Allwood, 2003). A recent working paper (Glaser, Langer & Weber, 2005) reported that professionals' (interval) responses to a short confidence quiz correlated moderately with their (interval) predictions of stock prices. Thus, it appears that miscalibration is a somewhat stable individual tendency. In addition, overconfidence seems to be weakly correlated with the personality trait of extraversion (Schaefer, Williams, Goodie & Keith, 2004).

To sum up, the paper aims to explore whether the tendency to be overconfident in one domain carries over to another domain. More precisely, based on responses from students answering a simple confidence quiz and predicting their performance on an academic course, the paper applies a within-subjects design to investigate whether miscalibration also reflects tendency to make flawed self-assessments. While miscalibration is defined as the tendency to make inadequate confidence intervals, flawed self-assessment concerns the inability to accurately predict educational performance. Earlier research indicates that when people are asked to provide 90%-confidence intervals, their responses cover the correct answers between 36% and 58% of the cases (Russo & Schoemaker, 1992; Biais, Hilton, Mazuerier & Pouget, 2005). Evidence suggests that the average correlation between expected and actual educational performance is roughly around 0.21 (cf. Dunning et al., 2005). Simply put, the study addresses the question: Does the performance on a confidence quiz relate to the (in)accuracy of self-assessments concerning grades and exam scores?

METHOD

Participants

Participants were 46 (11 females) undergraduates from a Swedish business school who completed a course on behavioral-oriented finance in the fall semesters of 2003 (n = 22) and

2004 (n = 24). Mean age was 24.3 years (range 21 - 34 years). Most participants completed the course in the last year of their education.

Procedure

The participants responded to two forms at two occasions: Form A and Form B.

Form A. At the prelude of the course, a form was handed out. Besides various tasks related to the concepts of behavioral decision-making (e.g., heuristics and biases, prospect theory), this form included a confidence quiz and questions concerning expected course performance. The participants were asked to (1) state their expected performance in comparison to others, (2) estimate expected grade and their confidence in this expectation, and (3) provide a 90%-interval of expected grade.

Form B. When about five weeks of the course had passed, there was a written exam. After completing the exam, the participants were faced with four questions, which were voluntarily to answer. In order, they were asked to estimate expected exam score and confidence interval around this estimate. To promote calibration, they were told that bonus points could be awarded in case the expected score fell inside the stated confidence interval. They were also instructed to assess the expected number of bonus points as well as their chances of receiving those points.

The exam of the fall 2004 differed from that of the fall 2003 in the following ways. First, most questions were different to prevent the students of class 2004 from being helped by their peers of class 2003. Second, the class of the fall 2004 could select eight out of 14 open-ended questions while the class of the fall 2003 chose eight of 12. Third, the 20 multiple choice questions of the exam from the fall 2004 had on average 5.9 items (SD = 1.7) compared to 4.9 items (SD = 1.7) of that from the fall 2003. The latter two differences were motivated by a deliberate quest to make the exam more difficult.

Measurements

Confidence quiz. The confidence quiz by Russo & Shoemaker (1990) was used. This quiz consists of ten items (e.g., "What is the length of the river Nile?") prompting a subject to provide ten intervals, of which he/she feels 90% sure cover the correct answers. It is assumed that calibrated individuals with insights into the limitations of their (general) knowledge should provide intervals covering nine out of ten correct answers. In contrast, if more than one interval falls outside the correct answer, he/she is said to be overconfident. Should all answers be inside the intervals, he/she is said to be underconfident.

Expected course performance in relation to peers. The participants judged their expected course performance in relation to their peers on a seven verbally anchored scale with endpoints "much worse" (1) and "much better" (7). The midpoint (4) denoted "equally good". Assumed to reflect "better-than-average-effect", this measurement is similar to that used by Svenson (1981).

Self-assessment of course grade. The participants judged the course grades they expected to receive. Theoretically, course grade ranged between 0 and 200, where a value below 100 meant flunk.

Confidence interval around self-assessment of course grade. The participants provided intervals, which they felt 90% sure would cover their actual course grades. Thus, they gave a lower limit and an upper limit for their expected course grades.

Actual course grade. Obviously, this measure was determined by the course teacher who lacked knowledge of the expectations of the students. As no participant flunked, this measure varied between 100 and 200.

Self-assessment of exam score. The participants estimated the scores they thought they would receive on the exam. Theoretically, the range of the exam score was 0 to 80. To encourage accuracy, the participants were told that they could receive bonus points given that

their expected exam scores fell inside a selected interval. For example, a participant could state that his/her expected score would be within 20 (2) points and if that would be the case he/she would be awarded by 2 (10) bonus points. Thus, the more narrow (wider) interval, the less (greater) number of bonus points.

Actual exam score. Obviously, the course teacher, who was uninformed about the expectations of the students, marked the exams and determined the scores.

Self-assessment of awarded bonus points. The participants stated how many bonus points they expected to receive. Maximum and minimum numbers of bonus points were 10 and 0, respectively.

Actually awarded bonus points. Should the actual exam score be inside the stated interval, bonus points were awarded. Theoretically, the number of bonus points ranged between 0 and 10.

RESULTS

How well or poorly did the participants perform on the confidence quiz?

As illustrated by Figure 1, the vast majority of participants was inaccurate and produced intervals that covered between 1 and 5 correct answers. Mean proportion of correct answers inside the confidence levels was 3.98 (SD = 2.15). Excluding the three participants who gave incomplete responses, there were a total of 430 intervals of which 60% were outside the corrected answers. Only one participant managed to produce intervals covering nine out of ten correct answers. Following the terminology by Russo & Shoemaker (1990), the remaining 42 participants must be considered to be overconfident. Given that the confidence quiz permitted one miss, the level of miscalibration, which was denoted as the proportion of incorrect answers, ranged between 0.00 and 0.90 with an average of 0.50 (SD = 0.22).



For some reasons, the two classes differed with respect to their performance on the confidence quiz. On average, the classes of fall 2003 and 2004 had 4.67 and 3.32 (SDs = 2.33 and 1.78) correct intervals. This difference was shown to be significant (t (41) =2.14, p < 0.05). Accordingly, the classes had different degree of miscalibration.

How well or poorly did the participants assess their own performance?

Recall that the participants made a series of self-assessments concerning expected performance. Table 1 shows that the average participant believed that he/she would perform slightly better than others, obtain the grade of 152.95 (out of 200) on the course and a score 59.70 (out of 80) on the exam. He/she also expected to be awarded with 5.70 (out of 10) bonus points by accurately judging the actual exam score. These beliefs were not too far-fetched. On average, actual course grade, actual exam scores, and actually awarded bonus points were 155.74, 60.70, and 5.17 (SDs = 19.90, 13.68, and 1.90).

Wilcoxon signed rank test indicated that the expectations were not significantly different from the actual performance. As shown by Table 2, whereas expected and actual course grades were weakly related (r = 0.29, p < 0.10), expected and actual exam scores correlated strongly (r = 0.83, p < 0.001). The correlation between judged and actually

awarded bonus points was moderate (r = 0.40, p < 0.01). In addition, an overwhelming majority (80%) provided intervals that covered their actual course grades. Those tendencies to well-calibration should, however, be viewed in light of the fact that 28 (15) participants expected to perform better than (equally good as) average, but only 16 (seven) of them did so. Nevertheless, the participants seemed to exhibit fairly good but not perfect insights into their abilities.

Table 1. Descriptive statistics concerning self-assessments (expected performance) and actual performance.

	Mean	SD	Median
Expected course performance in relation to peers ^A	4.93	0.97	5.00
Self-assessment of course grades ^B	152.95	14.68	150.00
Actual course grades	155.74	19.90	158.00
Lower limit concerning expected course grades	125.02	27.43	130.00
Upper limit concerning expected course grades	176.55	14.61	180.00
Self-assessment of exam scores ^C	59.70	11.62	60.00
Actual exam scores	60.70	13.68	63.50
Self-assessment of awarded bonus points	5.70	1.26	6.00
Actually awarded bonus points ^D	5.17	1.90	6.00

Notes:

^A Range was from 1 ("much worse") to 7 ("much better"). 4 meant "equally good".

^B Range was from 0 to 200, where 100 meant flunk.

^C Range was from 0 to 80.

^D Range was from 0 to 10.

2004 expected to be awarded with higher grades than that of fall 2003 (M = 157.35 vs. 148.14, t (42) = -2.16, p < 0.05). Second, their lower limits were higher than those of the class of fall 2003 (M = 115.62 vs. 133.61, t (42) = - 2.28, p < 0.05). An explanation for those observations could be that the class of fall 2004 had information about the actual grades of the class 2003 and, therefore, had higher expectations. Third, the class of fall 2003 received greater exam scores than the class of fall 2004 (M = 66.82 vs. 55.08, t (44) = 3.19, p < 0.01), implying that changing the contents of the exam had an effect. To control for class

There were three statistical differences between the two classes. First, the class of fall

differences, partial correlation analyses were run. As shown by Table 2, the results of those analyses were not too different from those of simple correlation analyses.

	1	2	3	4	5	6
1. Self-assessment of course grades		0.29^{a}	0.17	0.24	-0.13	-0.02
2. Actual course grades	0.29 ^a		0.56***	0.73***	0.10	0.22
3. Self-assessments of	0.09	0.54***		0.85***	-0.21	-0.26
A stual anom soores	0.06	0 6 1 * * *	0 0 1 * * *		0.27	0.07
4. Actual exam scores	0.00	0.04	0.84		-0.27	0.07
5. Self-assessment of awarded bonus points	-0.12	0.10	-0.20	-0.24		0.23
6. Actually awarded bonus points	-0.04	0.22	-0.24	0.09	0.23	

Table 2. Pearson's and partial correlation coefficients for the self-assessment measures.

^a denotes p = 0.06 *** p < 0.001

Notes: The coefficients in italics are partial correlations controlled for the effect of the two classes.

Inspired by the procedure by Kruger & Dunning (1999), the variables concerning actual course grades as well as actual exam scores were split into quartiles.¹ Because the data concerned two different years (fall 2003 vs. fall 2004), the split was made for each year. The resulting categorization of observations was more or less identical as that of splitting the aggregated data. To facilitate comparisons, the variables denoting expected and actual course grades as well as expected and actual exam scores were transformed to standard scores.

Figure 2 shows that the participants of the bottom quartile (n = 11) tended to exaggerate their course grades and exam scores, whereas those of the top quartile (n = 11 and 12) were inclined to underestimate their true ability. Wilcoxon signed rank test indicated that the discrepancy between expected and actual course grades was significant for the bottom quartile (Z = - 2.19, p < 0.05) but less substantial for the top quartile (Z = -1.87, p < 0.10).

¹ The corresponding split was not made with respect to actually awarded bonus points, because the resulting quartiles involved severely uneven number of observations.



In contrast, the discrepancies between expected and actual exam scores were found to be insignificant for the quartiles. Thus, it appears that the incentives to make accurate selfassessment reduced the aforementioned tendencies. It should, however, be noted that the same tendencies were observed but without statistical support. Regarding the discrepancy between expected and actually awarded bonus points, the bottom quartile was prone to exaggerate the number of bonus points they would receive, although no statistical support could be established.

How did the different measures of calibration and self-assessment relate to each other?

The relationships between the various measures of overconfidence were investigated by correlation analyses. Table 3 shows that most measures were unrelated except for three significant relationships. First, significant correlation was found between the variables called expected performance in relation to peers as well as discrepancy in expected and actual course grades (r = 0.39, p < 0.01). Second, the variables, which represented discrepancies

between expected and actual course grades as well as between expected and actual exam scores, were inter-correlated (r = 0.33, p < 0.01). Thus, participants who overestimated their course grades also tended to exaggerate their exam scores. Third, discrepancy between expected and actual exam scores was strongly correlated with discrepancy between expected and actually awarded bonus points (r = 0.61, p < 0.01). Participants, who overestimated their exam scores, were prone to overestimate the bonus points they expected to receive. To control for differences between the two classes, partial correlations were run. As shown by Table 4 the results were more or less similar at those obtained using simple correlation analyses.

	1	2	3	4	5
1. Miscalibration		-0.24	0.00	-0.16	-0.15
defined by the					
confidence quiz					
2. Expected course	-0.17		0.47**	-0.01	0.04
performance in					
relation to peers					
3. Discrepancy between	0.05	0.39**		0.29	0.14
expected and actual					
course grades					
4. Discrepancy between	0.03	0.08	0.33*		0.66***
expected and actual					
exam scores					
5. Discrepancy between	-0.11	-0.07	0.13	0.61**	
expected and actually					
awarded bonus points					

Table 3. Pearson's and partial correlation coefficients of measures related to miscalibration and flawed self-assessments.

* p < 0.05 ** p < 0.01 *** p < 0.001

Notes: The coefficients in italics are partial correlations controlled for the effect of the two classes.

In a further attempt to investigate the relationship between miscalibration and flawed self-assessments, the following procedure was employed. Like Biais et al., (2005), the variable denoted miscalibration as defined by confidence quiz was split into quartiles. To facilitate comparisons, the remaining variables of Table 3 were transformed to standard

scores. For each quartile of the aforementioned two variables, mean values were calculated and organized in graphs. See Figure 3.



refer to those had lowest and highest degree of miscalibration.

To test whether the quartiles differed with respect to expected course performance in relation to peers as well as discrepancies between expected and actual course performance, Kruskal-Wallis non-parametric tests were performed. As indicated by Figure 3, the second quartile differed significantly from the others with respect to discrepancy between expected and actually awarded bonus points (mean ranks = 28.11 vs. 20.00, 22.85, and 18.00, chi-square = 7.92, p < 0.05). Additionally, the bottom and the top quartiles, which represented the participants who had the lowest and the highest degree of miscalibration as defined by the confidence quiz, were pitted against each other. No substantial differences could be established.

Finally, the degree of miscalibration was compared between the participants who stated intervals falling outside (n = 6) and covering (n = 37) the actual course grade, respectively. In order, mean degree of miscalibration was for the two groups: 5.67 vs. 4.92 (SDs = 2.66 and 2.09). The little difference was not significant.

DISCUSSION

In summary, the study showed inconsistent judgmental tendencies of the participants. While the confidence quiz - in line with earlier research (Russo & Schoemaker, 1992; Biais et al., 2005) - indicated a tendency to overconfidence, the other measurements suggested tendencies to well-calibration and underconfidence. On average, the participants assessed their course performance fairly accurate. Meanwhile, the worst-performing participants tended to significantly overestimate their abilities, whereas the top-performing participants were inclined to underestimate; observations that harmonize with earlier research (Kruger & Dunning, 1999). Given the inconsistent judgmental tendencies, the employed measurements were, on the whole, weakly and insignificantly correlated.

In conclusion, the study hints that judgmental miscalibration (defined by a short confidence quiz) is unrelated to flawed self-assessment (regarding academic performance). In other words, the tendency to be overconfident in one domain seems not to carry over to another domain. This observation could be viewed in light of two circumstances. Firstly, the observed inconsistency of judgmental tendencies could be that the measurements are associated with different cognitive processes. For example, people have been proposed to apply so-called inside and outside views when they face different judgment situations (Kahneman & Lovallo, 1993). An inside view means to consider situations as unique and focus on details without consideration to statistics or experiences, while outside view refers to the propensity to think in terms of a large sample of situations and to make comparisons

between a current case and similar past cases (Kahneman & Lovallo, 1993). It has been argued that people apply an inside view when faced with the task to provide confidence levels as well as intervals, whereas they adopt an outside view when asked to state their expected accuracy after responding to a series of knowledge questions (Griffin & Tversky, 2002). As a result, they tend to be overconfident in the former task and calibrated in the latter task.

Secondly, it must also be taken into account that the study employed different types of measurements for miscalibration, flawed self-assessment, and related issues. The few studies that have used multiple approaches to measure overconfidence have shown incoherent or, at best, moderately correlated judgmental tendencies. For example, Kirchler & Maciejovsky (2002) asked participants taking part in an experimental market to provide subjective intervals around future prices and state their confidence (on a nine-step scale) in those intervals. They found that the former approach pointed to overconfidence, while the latter one suggested that the participants were simultaneously calibrated or underconfident. In contrast, Budescu & Du (2005) recently reported that asking participants for subjective probabilities and interval estimates, respectively, yielded more or less similar tendencies in confidence judgments. Andersson, Edman and Ekman (2005) relied on four ways to measure confidence in football forecasts: (1) confidence scales similar to those of Oskamp (1982), (2) expected accuracy, (3) difference between expected and actual accuracy, (4) self-reported forecasting ability. Although the measures were moderately intercorrelated, they gave roughly similar results. Nevertheless, the observed inconsistencies of judgment tendencies in the present paper could be partly explained by differences in measurements.

Finally, a word of caution. Using a short confidence quiz like that of the present study may not be a reliable way to determine miscalibration. Evidence from a vast body of psychological research on calibration indicated that such a quiz has methodological problems. As mentioned in the introduction, the selection of questions (tasks) could strongly influence

the observations by a short quiz. For example, merely asking ordinary people about esoteric

and extraordinary tasks (e.g., "How many bolts does Ölandsbron - the bridge between the

Swedish mainland and its second largest island Öland - have?"²) will likely, or perhaps

always, result in overwhelming tendencies to overconfidence. As shown by the present study,

the performance on a short confidence appears to be unrelated to the tendency to make flawed

self-assessments. For many people, such types of appraisals are more common and important

in everyday life than providing confidence levels (or intervals) for a small set of general

knowledge questions.

REFERENCES

- Abelson, R. P., & Levi, A. L. (1985). Decision making and decision theory. In G. Lindzey & E. Aronson (Eds.), <u>The handbook of social psychology</u> (Vol. 1, pp. 231-308). New York: Random House.
- Andersson, P., Edman, J., & Ekman, M. (2005). Predicting the World Cup 2002 in Soccer: Performance and confidence of experts and non-experts. *International Journal of Forecasting*, 21, 565-576.
- Biais, B., Hilton, D., Mazuerier, K., & Pouget, S. (2005). Judgmental overconfidence, self-monitoring, and trading performance in an experimental financial market. *Review of Economic Studies*, 72, 287-312.
- Bolger, F., & Wright, G. (1992). Reliability and validity in expert judgment. In F. Bolger & G. Wright (Eds.), <u>Expertise and decision support</u> (pp. 47-76). New York: Plenum Press.
- Budescu, D. V., & Du, N. (2005). <u>The coherence and consistency of investors' probability judgments</u>. Submitted for publication.
- Dunning, D., Heath, C., & Suls, J. M. (2005). Flawed self-assessment: Implications for health, eduaction, and the workplace. *Psychological Science in the Public Interest*, *5*, 69-106.

Gigerenzer, G. (2002). Reckoning with risks: Learning to live with uncertainty. London: Penguin.

- Gigerenzer, G., Hoffrage, U., & Kleinbölting, H. (1997). Probabilistic mental models: A Brunswikian theory of confidence. In W. M. Goldstein & R. M. Hogarth (Eds.), <u>Research on judgment and</u> <u>decision making</u> (pp. 95-143). New York: Cambridge Press.
- Glaser, M., Langer, T., & Weber, M. (2005). Overconfidence of Professionals and Lay Men: Individual Differences Within and Between Tasks? SFB 504 discussion paper 05-25, Universität Mannheim, Mannheim.
- Griffin, D., & Tversky, A. (2002). The weighings of evidence and determinants of confidence. In T. Gilovich, D. Griffin, & D. Kahneman (Eds.), <u>Heuristics and biases: The psychology of intuitive judgments</u> (pp. 230-249). New York: Cambridge University Press.
- Jonsson, A.-C., & Allwood, C. M. (2003). Stability and variability in the realism of confidence judgments over time, content domain, and gender. *Personality and Individual Differences, 34*, 559-574.

² A check at the webpage <u>http://susning.nu/%D6landsbron</u> showed that Ölandsbron has approximately 64.300 bolts.

- Juslin, P., & Olsson, H. (1999). Origins of uncertainty in judgment: Computational models of subjective probability calibration. In P. Juslin & H. Montgomery (Eds.), <u>Judgment and decision</u> <u>making: Neo-Brunswikian and process tracing approaches</u> (pp. 67-95). New York: Erlbaum.
- Kahneman, D., & Lovallo, D. (1993). Timid choices and bold forecasts: A cognitive perspective on risk taking. *Management Science*, 39, 17-31.
- Kirchler, E., & Maciejovsky, B. (2002). Simultaneous Over- and Underconfidence: Evidence from Experimental Asset Markets. *Journal of Risk and Uncertainty, 25*, 65-85.
- Klayman, J., Soll, J. B., González-Vallejoc, C., & Barlas, S. (1999). Overconfidence: It Depends on How, What, and Whom You Ask. Organizational Behavior and Human Decision Processes, 79, 216-247.
- Koehler, D. J., Brenner, L., & Griffin, D. (2002). The calibration of expert judgment: Heuristics and biases beyond the laboratory. In T. Gilovich, D. Griffin, & D. Kahneman (Eds.), <u>Heuristics and biases: The psychology of intuitive judgment</u> (pp. 686-715). New York: Cambridge University Press.
- Kruger, J., & Dunning, D. (1999). Unskilled and unaware of it: How difficulties in recognizing one's own incompetence lead to inflated self-assessment. *Journal of Personality and Social Psychology*, 77, 1121-1134.
- Lichtenstein, S., Fischhoff, B., & Phillips, L. D. (1982). Calibration of probabilities: The state of the art to 1980. In D. Kahneman, P. Slovic, & A. Tversky (Eds.), <u>Judgment under uncertainty:</u> <u>Heuristics and biases</u> (pp. 306-335). New York: Cambridge Press.
- McClelland, A. G. R., & Bolger, F. (1994). The calibration of subjective probabilities: Theories and models 1980-1994. In G. Wright & P. Ayton (Eds.), <u>Subjective probability</u> (pp. 453-482). Chichester, UK: Wiley.
- Oskamp, S. (1982). Overconfidence in case-study judgments. In D. Kahneman, P. Slovic, & A. Tversky (Eds.), Judgment under uncertainty: Heuristics and biases (pp. 287-293). New York: Cambridge University Press.
- Russo, J. E., & Schoemaker, P. J. H. (1992). Managing overconfidence. *Sloan Management Review*, 33, 7-17.
- Russo, J. E., & Schoemaker, P. J. H. (2002). *Winning decisions: How to make the right decision the first time*. London: Piatkus.
- Russo, J. E., & Shoemaker, P. (1990). *Decision Traps : Ten Barriers to Brilliant Decision-Making and How to Overcome Them*: Simon & Schuster Books.
- Schaefer, P. S., Williams, C. C., Goodie, A. S., & Keith, C. W. (2004). Overconfidence and the Big Five. *Journal of Research in Personality*, *38*, 473-480.
- Sjöberg, L. (1999). Consequences of perceived risk: Demand for mitigation. *Journal of Risk Research*, 2, 129-150.
- Svenson, O. (1981). Are we all less risky and more skillful than our fellow drivers? *Acta Psychologica*, *47*, 143-148.
- Svenson, O. (1996). Decision-making and the search for fundamental psychological regularities: What can be learned from a process perspective. Organizational Behavior and Human Decision Processes, 65, 252-267.

Nr.	Author	Title
05-30	Patric Andersson Richard Tour	How to Sample Behavior and Emotions of Traders:
05-29	Carsten Schmidt Ro'i Zultan	The Uncontrolled Social Utility Hypothesis Revisited
05-28	Peter Albrecht Joachim Coche Raimond Maurer Ralph Rogalla	Optimal Investment Policies for Hybrid Pension Plans - Analyzing the Perspective of Sponsors and Members
05-27	Oliver Kirchkamp Rosemarie Nagel	Learning and cooperation in network experiments
05-26	Zacharias Sautner Martin Weber	Stock Options and Employee Behavior
05-25	Markus Glaser Thomas Langer Martin Weber	Overconfidence of Professionals and Lay Men: Individual Differences Within and Between Tasks?
05-24	Volker Stocké	Determinanten und Konsequenzen von Nonresponse in egozentrierten Netzwerkstudien
05-23	Lothar Essig	Household Saving in Germany:
05-22	Lothar Essig	Precautionary saving and old-age provisions: Do subjective saving motives measures work?
05-21	Lothar Essig	Imputing total expenditures from a non-exhaustive
05-20	Lothar Essig	Measures for savings and saving rates in the German SAVE data set
05-19	Axel Börsch-Supan Lothar Essig	Personal assets and pension reform: How well prepared are the Germans?
05-18	Lothar Essig Joachim Winter	Item nonresponse to financial questions in household surveys: An experimental study of interviewer and mode effects
05-17	Lothar Essig	Methodological aspects of the SAVE data set

Nr.	Author	Title
05.15		
05-16	Hartmut Esser	Rationalität und Bindung. Das Modell der Frame-Selektion und die Erklärung des normativen Handelns
05-15	Hartmut Esser	Affektuelles Handeln: Emotionen und das Modell der Frame-Selektion
05-14	Gerald Seidel	Endogenous Inflation - The Role of Expectations and Strategic Interaction
05-13	Jannis Bischof	Zur Fraud-on-the-market-Theorie im US-amerikanischen informationellen Kapitalmarktrecht: Theoretische Grundlagen, Rechtsprechungsentwicklung und Materialien
05-12	Daniel Schunk	Search behaviour with reference point preferences: Theory and experimental evidence
05-11	Clemens Kroneberg	Die Definition der Situation und die variable Rationalität der Akteure. Ein allgemeines Modell des Handelns auf der Basis von Hartmut Essers Frame-Selektionstheorie
05-10	Sina Borgsen Markus Glaser	Diversifikationseffekte durch Small und Mid Caps?
05-09	Gerald Seidel	Fair Behavior and Inflation Persistence
05-08	Alexander Zimper	Equivalence between best responses and undominated strategies: a generalization from finite to compact strategy sets.
05-07	Hendrik Hakenes Isabel Schnabel	Bank Size and Risk-Taking under Basel II
05-06	Thomas Gschwend	Ticket-Splitting and Strategic Voting
05-05	Axel Börsch-Supan	Risiken im Lebenszyklus: Theorie und Evidenz
05-04	Franz Rothlauf Daniel Schunk Jella Pfeiffer	Classification of Human Decision Behavior: Finding

Nr.	Author	Title
05-03	Thomas Gschwend	Institutional Incentives for Strategic Voting:
05-02	Siegfried K. Berninghaus Karl-Martin Ehrhart Marion Ott	A Network Experiment in Continuous Time:
05-01	Geschäftsstelle	Jahresbericht 2004
04-70	Felix Freyland	Household Composition and Savings: An Empirical Analysis based on the German SOEP data
04-69	Felix Freyland	Household Composition and Savings: An Overview
04-68	Anette Reil-Held	Crowding out or crowding in? Public and private transfers in Germany.
04-67	Lothar Essig Anette Reil-Held	Chancen und Risiken der Riester-Rente
04-66	Alexander Ludwig Alexander Zimper	Rational Expectations and Ambiguity: A Comment on Abel (2002)
04-65	Axel Börsch-Supan Alexander Ludwig Joachim Winter	Aging, Pension Reform, and Capital Flows:
04-64	Axel Börsch-Supan	From Traditional DB to Notional DC Systems: Reframing PAYG contributions to "notional savings"
04-63	Axel Börsch-Supan	Faire Abschläge in der gesetzlichen Rentenversicherung
04-62	Barbara Berkel Axel Börsch-Supan	Pension Reform in Germany:
04-61	Axel Börsch-Supan Alexander Ludwig Anette Reil-Held	Projection methods and scenarios for public and private pension information

Nr.	Author	Title
04-60	Joachim Schleich Karl-Martin Ehrhart Christian Hoppe Stefan Seifert	Banning banking in EU emissions trading?
04-59	Karl-Martin Ehrhart Christian Hoppe Joachim Schleich Stefan Seifert	The role of auctions and forward markets in the EU
04-58	Stefan Seifert Karl-Martin Ehrhart	Design of the 3G Spectrum Auctions in the UK and in Germany: An Experimental Investigation
04-57	Karl-Martin Ehrhart Roy Gardner Jürgen von Hagen Claudia Keser*	Budget Processes: Theory and Experimental Evidence
04-56	Susanne Abele Karl-Martin Ehrhart	The Timing Effect in Public Good Games
04-55	Karl-Martin Ehrhart Christian Hoppe Joachim Schleich Stefan Seifert	Emissions Trading and the Optimal Timing of Production
04-54	Ralph W. Bailey Jürgen Eichberger David Kelsey	Ambiguity and Public Good Provision in Large Societies
04-53	Hendrik Hakenes Isabel Schnabel	Banks without Parachutes – Competitive Effects of Government Bail-out Policies
04-52	Hendrik Hakenes Martin Peitz	Selling Reputation When Going out of Business
04-51	Hendrik Hakenes Martin Peitz	Umbrella Branding and the Provision of Quality
04-50	Siegfried K. Berninghaus Bodo Vogt	Network Formation in Symmetric 2x2 Games

Nr.	Author	Title
04-49	Ani Guerdjikova	Evolution of Wealth and Asset Prices in Markets with Case-Based Investors
04-48	Ani Guerdjikova	Preference for Diversification with Similarity Considerations
04-47	Simon Grant Jürgen Eichberger David Kelsey	CEU Preferences and Dynamic Consistency
04-46	Ani Guerdjikova	A Note on Case-Based Optimization with a Non-Degenerate Similarity Function
04-45	Jürgen Eichberger Martin Summer	Bank Capital, Liquidity and Systemic Risk
04-44	Ani Guerdjikova	Asset Prices in an Overlapping Generations Model with Case-Based Decision Makers with Short Memory
04-43	Fabian Bornhorst Andrea Ichino Oliver Kirchkamp Karl H. Schlag Eyal Winter	How do People Play a Repeated Trust Game? Experimental Evidence
04-42	Martin Hellwig	Optimal Income Taxation, Public-Goods Provision
04-41	Thomas Gschwend	Comparative Politics of Strategic Voting: A Hierarchy of Electoral Systems
04-40	Ron Johnston Thomas Gschwend Charles Pattie	On Estimates of Split-Ticket Voting: EI and EMax
04-39	Volker Stocké	Determinants and Consequences of Survey Respondents&65533; Social Desirability Beliefs about Racial Attitudes
04-38	Siegfried K. Berninghaus Marion Ott Bodo Vogt	Restricting the benefit flow from neighbors:

Nr.	Author	Title
04-37	Christopher Koch	Behavioral Economics und die Unabhängigkeit des Wirtschaftsprüfers - Ein Forschungsüberblick
04-36	Christopher Koch	Behavioral Economics und das Entscheidungsverhalten des Wirtschaftsprüfers - Ein Forschungsüberblick
04-35	Christina Reifschneider	Behavioral Law and Economics: Überlegungen zu den Konsequenzen moderner Rationalitätskonzepte für die Gestaltung informationellen Kapitalmarktrechts
04-34	Siegfried K. Berninghaus Karl-Martin Ehrhart Marion Ott Bodo Vogt	Searching for "Stars" - Recent Experimental Results on Network Formation -
04-33	Christopher Koch	Haftungserleichterungen bei der Offenlegung von Zukunftsinformationen in den USA
04-32	Oliver Kirchkamp J. Philipp Reiß	The overbidding-myth and the underbidding-bias in first-price auctions
04-31	Alexander Ludwig Alexander Zimper	Investment Behavior under Ambiguity: The Case of Pessimistic Decision Makers
04-30	Volker Stocké	Attitudes Toward Surveys, Attitude Accessibility and the Effect on Respondents&65533; Susceptibility to Nonresponse
04-29	Alexander Ludwig	Improving Tatonnement Methods for Solving Heterogeneous Agent Models
04-28	Marc Oliver Rieger Mei Wang	Cumulative Prospect Theory and the St.Petersburg Paradox
04-27	Michele Bernasconi Oliver Kirchkamp Paolo Paruolo	Do fiscal variables affect fiscal expectations? Experiments with real world and lab data
04-26	Daniel Schunk Cornelia Betsch	Explaining heterogeneity in utility functions by individual differences in preferred decision modes

Nr	Author	Title
111.	1 tutil01	1 mic
04-25	Martin Weber Jens Wuestemann	Bedeutung des Börsenkurses im Rahmen der
04-24	Hannah Hörisch	Does foreign aid delay stabilization
04-23	Daniel Schunk Joachim Winter	The Relationship Between Risk Attitudes and Heuristics in Search Tasks: A Laboratory Experiment
04-22	Martin Hellwig	Risk Aversion in the Small and in the Large When Outcomes Are Multidimensional
04-21	Oliver Kirchkamp Eva Poen J. Philipp Reiß	Bidding with Outside Options
04-20	Jens Wüstemann	Evaluation and Response to Risk in International Accounting and Audit Systems: Framework and German Experiences
04-19	Cornelia Betsch	Präferenz für Intuition und Deliberation (PID):
04-18	Alexander Zimper	Dominance-Solvable Lattice Games
04-17	Volker Stocké Birgit Becker	DETERMINANTEN UND KONSEQUENZEN DER UMFRAGEEINSTELLUNG. Bewertungsdimensionen unterschiedlicher Umfragesponsoren und die Antwortbereitschaft der Befragten
04-16	Volker Stocké Christian Hunkler	Die angemessene Erfassung der Stärke und Richtung von Anreizen durch soziale Erwünschtheit
04-15	Elena Carletti Vittoria Cerasi Sonja Daltung	Multiple-bank lending: diversification and free-riding in monitoring
04-14	Volker Stocké	The Interdependence of Determinants for the Strength and Direction of Social Desirability Bias in Racial Attitude Surveys
04-13	Mei Wang Paul Fischbeck	Evaluating Lotteries, Risks, and Risk-mitigation Programs

Nr.	Author	Title
04-12	Alexander Ludwig Torsten Sløk	The relationship between stock prices, house prices and consumption in OECD
04-11	Jens Wüstemann	Disclosure Regimes and Corporate Governance
04-10	Peter Albrecht Timo Klett	Referenzpunktbezogene risikoadjustierte Performancemaße: Theoretische Grundlagen
04-09	Alexander Klos	The Investment Horizon and Dynamic Asset Allocation - Some Experimental Evidence
04-08	Peter Albrecht Cemil Kantar Yanying Xiao	Mean Reversion-Effekte auf dem deutschen Aktienmarkt: Statistische Analysen der Entwicklung des DAX-KGV
04-07	Geschäftsstelle	Jahresbericht 2003
04-06	Oliver Kirchkamp	Why are Stabilisations delayed - an experiment with an application to all pay auctions
04-05	Karl-Martin Ehrhart Marion Ott	Auctions, Information, and New Technologies
04-04	Alexander Zimper	On the Existence of Strategic Solutions for Games with Security- and Potential Level Players
04-03	Alexander Zimper	A Note on the Equivalence of Rationalizability Concepts in Generalized Nice Games
04-02	Martin Hellwig	The Provision and Pricing of Excludable Public Goods: Ramsey-Boiteux Pricing versus Bundling
04-01	Alexander Klos Martin Weber	Portfolio Choice in the Presence of Nontradeable Income: An Experimental Analysis
03-39	Eric Igou Herbert Bless	More Thought - More Framing Effects?
03-38	Siegfried K. Berninghaus Werner Gueth Annette Kirstein	Trading Goods versus Sharing Money - An Experiment Testing Wether Fairness and Efficiency are Frame Dependent

Nr.	Author	Title
03-37	Franz Urban Pappi Thomas Gschwend	Partei- und Koalitionspräferenzen der Wähler bei der Bundestagswahl 1998 und 2002
03-36	Martin Hellwig	A Utilitarian Approach to the Provision and Pricing of Excludable Public Goods
03-35	Daniel Schunk	The Pennsylvania Reemployment Bonus Experiments: How a survival model helps in the analysis of the data
03-34	Volker Stocké Bettina Langfeldt	Umfrageeinstellung und Umfrageerfahrung. Die relative Bedeutung unterschiedlicher Aspekte der Interviewerfahrung für die generalisierte Umfrageeinstellung
03-33	Volker Stocké	Measuring Information Accessibility and Predicting Response-Effects: The Validity of Response-Certainties and Response-Latencies
03-32	Siegfried K. Berninghaus Christian Korth Stefan Napel	Reciprocity - an indirect evolutionary analysis
03-31	Peter Albrecht Cemil Kantar	Random Walk oder Mean Reversion? Eine statistische Analyse des Kurs/Gewinn-Verhältnisses für den deutschen Aktienmarkt
03-30	Jürgen Eichberger David Kelsey Burkhard Schipper	Ambiguity and Social Interaction
03-29	Ulrich Schmidt Alexander Zimper	Security And Potential Level Preferences With
03-28	Alexander Zimper	Uniqueness Conditions for Point-Rationalizable
03-27	Jürgen Eichberger David Kelsey	Sequential Two-Player Games with Ambiguity
03-26	Alain Chateauneuf Jürgen Eichberger Simon Grant	A Simple Axiomatization and Constructive Representation Proof for Choquet Expected Utility

Nr.	Author	Title
03-25	Volker Stocké	Informationsverfügbarkeit und Response-Effects:
03-24	Volker Stocké	Entstehungsbedingungen von Antwortverzerrungen durch soziale Erwünschtheit. Ein Vergleich der Prognosen der Rational-Choice Theorie und des Modells der Frame-Selektion
03-23	Daniel Schunk	Modeling the Use of Nonrenewable Resources Using a Genetic Algorithm
03-22	Brian Deal Daniel Schunk	Spatial Dynamic Modeling and Urban Land Use Transformation:
03-21	Thomas Gschwend Franz Urban Pappi	Stimmensplitting und Koalitionswahl
03-20	Thomas Langer Martin Weber	Does Binding or Feeback Influence Myopic Loss Aversion - An Experimental Analysis
03-19	Peter Albrecht Carsten Weber II	Asset/Liability Management of German Life Insurance Companies: A Value-at-Risk Approach in the Presence of Interest Rate Guarantees
03-18	Markus Glaser	Online Broker Investors: Demographic Information, Investment Strategy, Portfolio Positions, and Trading Activity
03-17	Markus Glaser Martin Weber	September 11 and Stock Return Expectations of Individual Investors
03-16	Siegfried K. Berninghaus Bodo Vogt	Network Formation and Coordination Games
03-15	Johannes Keller Herbert Bless	When negative expectancies turn into negative performance: The role of ease of retrieval.
03-14	Markus Glaser Markus Nöth Martin Weber	Behavioral Finance
03-13	Hendrik Hakenes	Banks as Delegated Risk Managers

Nr.	Author	Title
03-12	Elena Carletti	The Structure of Bank Relationships, Endogenous Monitoring and Loan Rates
03-11	Isabel Schnabel	The Great Banks' Depression - Deposit Withdrawals in the German Crisis of 1931
03-10	Alain Chateauneuf Jürgen Eichberger Simon Grant	Choice under Uncertainty with the Best and Worst in Mind: Neo-additive Capacities.
03-09	Peter Albrecht Carsten Weber	Combined Accumulation- and Decumulation-Plans with Risk-Controlled Capital Protection
03-08	Hans-Martin von Gaudecker Carsten Weber II	Surprises in a Growing Market Niche - An Evaluation of the German Private Annuities Market
03-07	Markus Glaser Martin Weber	Overconfidence and Trading Volume
03-06	Markus Glaser Thomas Langer Martin Weber	On the trend recognition and forecasting ability of professional traders
03-05	Geschäftsstelle	Jahresbericht 2002
03-04	Oliver Kirchkamp Rosemarie Nagel	No imitation - on local and group interaction, learning and reciprocity in prisoners break
03-03	Michele Bernasconi Oliver Kirchkamp Paolo Paruolo	Expectations and perceived causality in fiscal policy: an experimental analysis using real world data
03-02	Peter Albrecht	Risk Based Capital Allocation
03-01	Peter Albrecht	Risk Measures
02-51	Peter Albrecht Ivica Dus Raimond Maurer Ulla Ruckpaul	Cost Average-Effekt: Fakt oder Mythos?
02-50	Thomas Langer Niels Nauhauser	Zur Bedeutung von Cost-Average-Effekten bei Einzahlungsplänen und Portefeuilleumschichtungen

Nr.	Author	Title
02-49	Alexander Klos Thomas Langer Martin Weber	Über kurz oder lang - Welche Rolle spielt der Anlagehorizont bei Investitionsentscheidungen?
02-48	Isabel Schnabel	The German Twin Crisis of 1931
02-47	Axel Börsch-Supan Annamaria Lusardi	Saving Viewed from a Cross-National Perspective
02-46	Isabel Schnabel Hyun Song Shin	Foreshadowing LTCM: The Crisis of 1763
02-45	Ulrich Koch	Inkrementaler Wandel und adaptive Dynamik in Regelsystemen
02-44	Alexander Klos	Die Risikoprämie am deutschen Kapitalmarkt
02-43	Markus Glaser Martin Weber	Momentum and Turnover: Evidence from the German Stock Market
02-42	Mohammed Abdellaoui Frank Voßmann Martin Weber	An Experimental Analysis of Decision Weights in Cumulative Prospect Theory under Uncertainty
02-41	Carlo Kraemer Martin Weber	To buy or not to buy: Why do people buy too much information?
02-40	Nikolaus Beck	Kumulation und Verweildauerabhängigkeit von Regeländerungen
02-39	Eric Igou	The Role of Lay Theories of Affect Progressions in Affective Forecasting
02-38	Eric Igou Herbert Bless	My future emotions versus your future emotions: The self-other effect in affective forecasting
02-37	Stefan Schwarz Dagmar Stahlberg Sabine Sczesny	Denying the foreseeability of an event as a means of self-protection. The impact of self-threatening outcome information on the strength of the hindsight bias

Nr.	Author	Title
02-36	Susanne Abele Herbert Bless Karl-Martin Ehrhart	Social Information Processing in Strategic Decision Making: Why Timing Matters
02-35	Joachim Winter	Bracketing effects in categorized survey questions and the measurement of economic quantities
02-34	Joachim Winter	Design effects in survey-based measures of household consumption
02-33	Stefan Schwarz Dagmar Stahlberg	Motivational influences on the strength of the hindsight bias
02-32	Stefan Schwarz Dagmar Stahlberg	Strength of hindsight bias as a consequence of meta-cognitions
02-31	Roman Grunwald	Inter-Organisationales Lernen und die Integration spezialisierten Wissens in Kooperationen - Eine empirische Untersuchung anhand von kooperativen Entwicklungsprojekten
02-30	Geschäftsstelle	The Relation Between Real Wage Rates and Employment: An Intertemporal General-Equilibrium Analysis
02-29	Moshe Ben-Akiva Daniel McFadden Kenneth Train Axel Börsch-Supan	Hybrid Choice Models: Progress and Challenges
02-28	Angelika Eymann Axel Börsch-Supan Rob Euwals	Risk Attitude, Impatience, and Asset Choice
02-27	Axel Börsch-Supan Alexander Ludwig Joachim Winter	Aging and International Capital Flows
02-26	Rüdiger F. Pohl Stefan Schwarz Sabine Sczesny Dagmar Stahlberg	Gustatory hindsight bias

Nr.	Author	Title
02-25	Axel Börsch-Supan	What We Know and What We Do NOT Know About the Willingness to Provide Self-Financed Old-Age Insurance
02-24	Florian Heiss	Specification(s) of Nested Logit Models
02-23	Axel Börsch-Supan	Kann die Finanz- und Sozialpolitik die Auswirkungen der Bevölkerungsalterung auf den Arbeitsmarkt lindern?
02-22	Tito Boeri Axel Börsch-Supan Guido Tabellini	Would you Like to Reform the Pension System? The Opinions of European Citizens
02-21	Axel Börsch-Supan Florian Heiss Miki Seko	Housing Demand in Germany and Japan - Paper in memoriam of Stephen Mayo
02-20	Siegfried K. Berninghaus Karl-Martin Ehrhart	The power of ESS: An experimental study
02-19	Douglas Gale Martin Hellwig	Competitive Insurance Markets with Asymmetric Information: A Cournot-Arrow-Debreu Approach*
02-18	Michele Bernasconi Oliver Kirchkamp	The Expectations view on fiscal policy - An experiment using real world data
02-17	Oliver Kirchkamp Rosemarie Nagel	Reinforcement, repeated games, and local interaction
02-16	Axel Börsch-Supan	Die Vorhersage von Fragenreihenfolgeeffekten durch Antwortlatenzen: Eine Validierungsstudie
02-15	Thomas Kittsteiner Jörg Nikutta Eyal Winter	Discounting in Sequential Auctions
02-14	Christian Ewerhart II	Banks, Internal Models and the Problem of Adverse Selection
02-13	Christian Ewerhart II Eyal Winter	Limited Backward Induction as an Expression of Bayesian Rationality

Nr.	Author	Title
02-12	Christian Ewerhart II	Enabling Goal-Directed Planning and Control: Experiences with the Implementation of Value Management in an Internationally Operating Stock Exchange
02-11	Christian Ewerhart II Karsten Fieseler	Procurement Auctions and Unit-Price Contracts
02-10	Susanne Abele	How to Influence Cooperation Subtly
02-01	Geschäftsstelle	Jahresbericht 2001
02-09	Volker Stocké	Soziale Erwünschtheit bei der Erfassung von Einstellungen gegenüber Ausländern. Theoretische Prognosen und deren empirische Überprüfung
02-08	Benny Moldovanu Moritz Meyer-ter-Vehn	Ex-post Implementation with Interdependent Valuations
02-07	Benny Moldovanu Christian Ewerhart II	A Stylized Model of the German UMTS Auction
02-06	Benny Moldovanu Aner Sela	Contest Architecture
02-05	Benny Moldovanu Christian Ewerhart II	The German UMTS Design: Insights From Multi-Object Auction Theory
02-04	Alex Possajennikov	Cooperative Prisoners and Aggressive Chickens: Evolution of Strategies and Preferences in 2x2 Games
02-03	Alex Possajennikov	Two-Speed Evolution of Strategies and Preferences in Symmetric Games
02-02	Markus Ruder Herbert Bless	Mood and the reliance on the ease of retrieval heuristic
01-52	Martin Hellwig Klaus M. Schmidt	Discrete-Time Approximations of the Holmström-Milgrom Brownian-Motion Model of Intertemporal Incentive Provision

Nr.	Author	Title
01-51	Martin Hellwig	The Role of Boundary Solutions in Principal-Agent Problems with Effort Costs Depending on Mean Returns
01-50	Siegfried K. Berninghaus	Evolution of conventions - some theoretical and experimental aspects
01-49	Dezsö Szalay	Procurement with an Endogenous Type Distribution
01-48	Martin Weber Heiko Zuchel	How Do Prior Outcomes Affect Risky Choice? Further Evidence on the House-Money Effect and Escalation of Commitment
01-47	Felix Freyland Alfred Kieser	The Complexity of Rule Systems, Experience, and Organizational Learning
01-46	Martin Schulz Nikolaus Beck III	Organizational Rules and Rule Histories
01-45	Nikolaus Beck Peter Walgenbach	Formalization and ISO 9000 - Changes in the German Machine Building Industry
01-44	Anna Maffioletti Ulrich Schmidt	The Effect of Elicitation Methods on Ambiguity Aversion: An Experimental Investigation
01-43	Anna Maffioletti Michele Santoni	Do Trade Union Leaders Violate Subjective Expected Utility?Some Insights from Experimental Data
01-42	Axel Börsch-Supan	Incentive Effects of Social Security Under an Uncertain Disability Option
01-41	Carmela Di Mauro Anna Maffioletti	Reaction to Uncertainty and Market Mechanism:Experimental Evidence
01-40	Marcel Normann Thomas Langer	Altersvorsorge, Konsumwunsch und mangelnde Selbstdisziplin: Zur Relevanz deskriptiver Theorien für die Gestaltung von Altersvorsorgeprodukten
01-39	Heiko Zuchel	What Drives the Disposition Effect?
01-38	Karl-Martin Ehrhart	European Central Bank Operations: Experimental Investigation of the Fixed Rate Tender

Nr.	Author	Title
01-37	Karl-Martin Ehrhart	European Central Bank Operations: Experimental Investigation of Variable Rate Tenders
01-36	Karl-Martin Ehrhart	A Well-known Rationing Game
01-35	Peter Albrecht Raimond Maurer	Self-Annuitization, Ruin Risk in Retirement and Asset Allocation: The Annuity Benchmark
01-34	Daniel Houser Joachim Winter	Time preference and decision rules in a price search experiment
01-33	Christian Ewerhart II	Iterated Weak Dominance in Strictly Competitive Games of Perfect Information
01-32	Christian Ewerhart II	THE K-DIMENSIONAL FIXED POINT THEOREM OF PROVABILITY LOGIC
01-31	Christian Ewerhart II	A Decision-Theoretic Characterization of Iterated Weak Dominance
01-30	Christian Ewerhart	Heterogeneous Awareness and the Possibility of Agreement
01-29	Christian Ewerhart II	An Example for a Game Involving Unawareness: The Tragedy of Romeo and Juliet
01-28	Christian Ewerhart II	Backward Induction and the Game-Theoretic Analysis of Chess
01-27	Thomas Gschwend Herbert Bless	About the Importance of Arguments, or: Order Effects and Conversational Rules
01-26	Heiko Zuchel Martin Weber	The Disposition Effect and Momentum
01-25	Volker Stocké	An Empirical Test of the Contingency Model for the Explanation of Heuristic-Based Framing-Effects
01-24	Volker Stocké	The Influence of Frequency Scales on the Response Behavior. A Theoretical Model and its Empirical Examination

Nr.	Author	Title
01-23	Volker Stocké	An Empirical Examination of Different Interpretations of the Prospect Theorys Framing-Hypothesis
01-22	Volker Stocké	Socially Desirable Response Behavior as Rational Choice: The Case of Attitudes Towards Foreigners
01-21	Hendrik Hakenes Isabel Schnabel	License Auctions and Market Structure
01-20	Phillipe Jehiel Benny Moldovanu	The European UMTS/IMT-2000 License Auctions
01-19	Arieh Gavious Benny Moldovanu Aner Sela	Bid Costs and Endogenous Bid Caps
01-18	Benny Moldovanu Karsten Fieseler Thomas Kittsteiner	Partnerships, Lemons and Efficient Trade
01-17	Raimond Maurer Martin Pitzer Steffen Sebastian	Construction of a Transaction Based Real Estate Index for the Paris Housing Market
01-16	Martin Hellwig	The Impact of the Number of Participants on the Provision of a Public Good
01-15	Thomas Kittsteiner	Partnerships and Double Auctions with Interdependent Valuations
01-14	Axel Börsch-Supan Agar Brugiavini	Savings: The Policy Debate in Europe
01-13	Thomas Langer	Fallstudie zum rationalen Entscheiden: Contingent Valuation und der Fall der Exxon Valdez
01-12	Peter Albrecht Raimond Maurer Ulla Ruckpaul	On the Risks of Stocks in the Long Run:A Probabilistic Approach Based on Measures of Shortfall Risk

Nr.	Author	Title
01-11	Peter Albrecht Raimond Maurer	Zum systematischen Vergleich von Rentenversicherung und Fondsentnahmeplänen unter dem Aspekt des Kapitalverzehrrisikos - der Fall nach Steuern
01-10	Gyöngyi Bugàr Raimond Maurer	International Equity Portfolios and Currency Hedging: The Viewpoint of German and Hungarian Investors
01-09	Erich Kirchler Boris Maciejovsky Martin Weber	Framing Effects on Asset Markets - An Experimental Analysis -
01-08	Axel Börsch-Supan Alexander Ludwig Joachim Winter	Aging, pension reform, and capital flows: A multi-country simulation model
01-07	Axel Börsch-Supan Anette Reil-Held Ralf Rodepeter Reinhold Schnabel Joachim Winter	The German Savings Puzzle
01-06	Markus Glaser	Behavioral Financial Engineering: eine Fallstudie zum Rationalen Entscheiden
01-05	Susanne Abele Karl-Martin Ehrhart	Zum systematischen Vergleich von Rentenversicherung und Fondsentnahmeplänen unter dem Aspekt des Kapitalverzehrrisikos
01-04	Thomas Hintz Dagmar Stahlberg Stefan Schwarz	Cognitive processes that work in hindsight: Meta-cognitions or probability-matching?
01-03	Dagmar Stahlberg Sabine Sczesny Friederike Braun	Name your favourite musician: Effects of masculine generics and of their alternatives in german
01-02	Sabine Sczesny Sandra Spreemann II Dagmar Stahlberg	The influence of gender-stereotyped perfumes on the attribution of leadership competence
01-01	Geschäftsstelle	Jahresbericht 2000

Nr.	Author	Title
00-51	Angelika Eymann	Portfolio Choice and Knowledge
00-50	Oliver Kirchkamp Rosemarie Nagel	Repeated Game Strategies in Local and Group Prisoner's Dilemma
00-49	Thomas Langer Martin Weber	The Impact of Feedback Frequency on Risk Taking: How general is the Phenomenon?
00-48	Niklas Siebenmorgen Martin Weber	The Influence of Different Investment Horizons on Risk Behavior
00-47	Roman Inderst Christian Laux	Incentives in Internal Capital Markets
00-46	Niklas Siebenmorgen Martin Weber	A Behavioral Approach to the Asset Allocation Puzzle
00-45	Thomas Langer Rakesh Sarin Martin Weber	The Retrospective Evaluation of Payment Sequences: Duration Neglect and Peak-and-End-Effects
00-44	Elena Carletti	Soziale Sicherung: Herausforderungen an der Jahrhundertwende
00-43	Rolf Elgeti Raimond Maurer	Zur Quantifizierung der Risikoprämien deutscher Versicherungsaktien im Kontext eines Multifaktorenmodells
00-42	Martin Hellwig	Nonlinear Incentive Contracting in Walrasian Markets: A Cournot Approach
00-41	Tone Dieckmann	A Dynamic Model of a Local Public Goods Economy with Crowding
00-40	Claudia Keser Bodo Vogt	Why do experimental subjects choose an equilibrium which is neither risk nor payoff dominant
00-39	Christian Dustmann Oliver Kirchkamp	The Optimal Migration Duration and Activity Choice after Re-migration

Nr.	Author	Title
00-38	Niklas Siebenmorgen Elke U. Weber Martin Weber	Communicating Asset Risk: How the format of historic volatility information affects risk perception and investment decisions
00-37	Siegfried K. Berninghaus	The impact of monopolistic wage setting on innovation and market structure
00-36	Siegfried K. Berninghaus Karl-Martin Ehrhart	Coordination and information: Recent experimental evidence
00-35	Carlo Kraemer Markus Nöth Martin Weber	Information Aggregation with Costly Information and Random Ordering: Experimental Evidence
00-34	Markus Nöth Martin Weber	Information Aggregation with Random Ordering: Cascades and Overconfidence
00-33	Felix Freyland Ulrich Schwalbe	Dynamic Coalition Formation and the Core
00-32	Martin Hellwig	Corporate Governance and the Financing of Investment for Structural Change
00-31	Peter Albrecht Thorsten Göbel	Rentenversicherung versus Fondsentnahmepläne, oder: Wie groß ist die Gefahr, den Verzehr des eigenen Vermögens zu überleben?
00-30	Roman Inderst Holger M. Müller Karl Wärneryd	Influence Costs and Hierarchy
00-29	Dezsö Szalay	Optimal Delegation
00-28	Dezsö Szalay	Financial Contracting, R&D and Growth
00-27	Axel Börsch-Supan	Rentabilitätsvergleiche im Umlage- und Kapitaldeckungsverfahren: Konzepte, empirische Ergebnisse, sozialpolitische Konsequenzen
00-26	Axel Börsch-Supan Anette Reil-Held	How much is transfer and how much insurance in a pay-as-you-go system? The German Case.

Nr.	Author	Title
00-25	Axel Börsch-Supan	Rentenreform und die Bereitschaft zur Eigenvorsorge: Umfrageergebnisse in Deutschland
00-24	Christian Ewerhart	Chess-like games are dominancesolvable in at most two steps
00-23	Christian Ewerhart	An Alternative Proof of Marshalls Rule
00-22	Christian Ewerhart	Market Risks, Internal Models, and Optimal Regulation: Does Backtesting Induce Banks to Report Their True Risks?
00-21	Axel Börsch-Supan	A Blue Print for Germany's Pension Reform
00-20	Axel Börsch-Supan	Data and Research on Retirement in Germany
00-19	Henning Plessner Tilmann Betsch	Sequential effects in important sport-decisions: The case of penalties in soccer
00-18	Susanne Haberstroh Ulrich Kühnen Daphna Oyserman Norbert Schwarz	Is the interdependent self a better communicator than the independent self? Self-construal and the observation of conversational norms
00-17	Tilmann Betsch Susanne Haberstroh Connie Höhle	Explaining and Predicting Routinized Decision Making: A Review of Theories
00-16	Susanne Haberstroh Tilmann Betsch Henk Aarts	When guessing is better than thinking: Multiple bases for frequency judgments
00-15	Axel Börsch-Supan Angelika Eymann	Household Portfolios in Germany
00-14	Anette Reil-Held	Einkommen und Sterblichkeit in Deutschland: Leben Reiche länger?
00-13	Nikolaus Beck II Martin Schulz	Comparing Rule Histories in the U.S. and in Germany: Searching for General Principles of Organizational Rules

Nr.	Author	Title
00-12	Volker Stocké	Framing ist nicht gleich Framing. Eine Typologie unterschiedlicher Framing-Effekte und Theorien zu deren Erklärung
00-11	Oliver Kirchkamp Rosemarie Nagel	Local and Group Interaction in Prisoners' Dilemmas
00-10	Oliver Kirchkamp Benny Moldovanu	An experimental analysis of auctions with interdependent valuations
00-09	Oliver Kirchkamp	WWW Experiments for Economists, a Technical Introduction
00-08	Alfred Kieser Ulrich Koch	Organizational Learning through Rule Adaptation: From the Behavioral Theory to Transactive Organizational Learning
00-07	Raimond Maurer Steffen Sebastian	Inflation Risk Analysis of European Real Estate Securities
00-06	Martin Hellwig	Costly State Verification: The Choice Between Ex Ante and Ex Post Verification Mechanisms
00-05	Peter Albrecht Raimond Maurer	100% Aktien zur Altersvorsorge - Über die Langfristrisiken einer Aktienanlage
00-04	Douglas Gale	Aging and the Pension Crisis: Flexibilization through Capital Markets
00-03	Axel Börsch-Supan	Data and Research on Saving in Germany
00-02	Raimond Maurer Alexander Mertz	Internationale Diversifikation von Aktien- und Anleiheportfolios aus der Perspektive deutscher Investoren
00-01	Office SFB504	Jahresbericht 1999
99-89	Holger M. Müller Roman Inderst	Project Bundling, Liquidity Spillovers, and Capital Market Discipline
99-88	Raimond Maurer Gyöngyi Bugàr	Efficient Risk Reducing Strategies by International Diversification: Evidence from a Central European Emerging Market

Nr.	Author	Title
99-87	Berit Ernst Alfred Kieser	In Search of Explanations for the Consulting Explosion. A Critical Perspective on Managers' Decisions to Contract a Consultancy
99-86	Martin Hellwig Andreas Irmen	Wage Growth, Productivity Growth, and the Evolution of Employment
99-85	Siegfried K. Berninghaus Werner Gueth Claudia Keser	Decentralized or Collective Bargaining in a Strategy Experiment
99-84	Jan Vleugels	Bidding Against an Unknown Number of Competitors With Affiliated Information
99-83	Stefan Schwarz Ulf-Dietrich Reips	Drop-out wegen JavaScript:
99-82	Holger M. Müller Karl Wärneryd	Inside vs Outside Ownership - A Political Theory of the Firm
99-81	Ralf Rodepeter Joachim Winter	Rules of thumb in life-cycle savings models
99-80	Michael Adam Raimond Maurer	Risk Value Analysis of Covered Short Call and Protective Put Portfolio Strategies
99-79	Peter Albrecht	Rendite oder Sicherheit in der Altersversorgung - unvereinbare Gegensätze?
99-78	Karsten Fieseler	The Efficient Bilateral Trade of an Indivisible Good: Successively Arriving Information
99-77	Karsten Fieseler	Optimal Leasing Durations: Options for Extension
99-76	Peter Albrecht Raimond Maurer	Zur Bedeutung einer Ausfallbedrohtheit von Versicherungskontrakten - ein Beitrag zur Behavioral Insurance
99-75	Benny Moldovanu Aner Sela	The Optimal Allocation of Prizes in Contests
99-74	Phillipe Jehiel Benny Moldovanu	Efficient Design with Interdependent Valuations

Nr.	Author	Title
99-73	Phillipe Jehiel Benny Moldovanu	A Note on Revenue Maximization and Efficiency in Multi-Object Auctions
99-72	Eva Brit Kramer Martin Weber	Über kurz oder lang - Spielt der Anlagehorizont eine berechtigte Rolle bei der Beurteilung von Investments?
99-71	Karsten Fieseler Thomas Kittsteiner Benny Moldovanu	Partnerships, Lemons and Efficient Trade
99-70	Dagmar Stahlberg Sabine Sczesny Stefan Schwarz	Exculpating Victims and the Reversal of Hindsight Bias
99-69	Karl-Martin Ehrhart Claudia Keser	Mobility and cooperation: on the run
99-68	Roman Inderst Holger M. Müller	Delegation of Control Rights, Ownership Concentration, and the Decline of External Finance
99-67	Eric Igou Herbert Bless Michaela Wänke	Ursachen der Verwässerung oder: Konversationslogische Aspekte des "Dilution-Effektes"
99-66	Stefan Schwarz Dagmar Stahlberg	Auswirkungen des Hindsight Bias auf ökonomische Entscheidungen
99-65	Susanne Abele Karl-Martin Ehrhart	Why Timing Matters: Differential Effects of Uncertainty about the Outcome of Past versus Current Events
99-64	Thomas Langer Martin Weber	Prospect-Theory, Mental Accounting and Differences in Aggregated and Segregated Evaluation of Lottery Portfolios
99-63	Andreas Laschke Martin Weber	Der "Overconfidence Bias" und seine Konsequenzen in Finanzmärkten
99-62	Nikolaus Beck Peter Walgenbach	From Statistical Quality Control, over Quality Systems to Total Quality Management - The Institutionalization of a New Management Approach

Nr.	Author	Title
99-61	Paul Povel Michael Raith	Endogenous Debt Contracts With Undistorted Incentives
99-60	Nikolaus Beck Alfred Kieser	Unspectacular Organizational Change in Normal Times: Rule Change as a Routine Activity
99-59	Roman Inderst Holger M. Müller	Why Peaches Must Circulate Longer than Lemons
99-58	Roman Inderst	Bargaining with Sequential Buyers under Incomplete Information
99-57	Roman Inderst	Bargaining with a Possibly Committed Seller
99-56	Roman Inderst	Efficiency Wages under Adverse Selection and the Role of Rigid Wages
99-55	Daniel Probst	Evolution, Automata and Repeated Games
99-54	Christian Laux Daniel Probst	The Ambiguous Effects of Rankings: Strategically Biased Forecasting by Advisers
99-53	Martin Hellwig Andreas Irmen	Endogenous Technical Change in a Competitive Economy
99-52	Roman Inderst Holger M. Müller	Competitive Search Markets with Adverse Selection
99-51	Abdolkarim Sadrieh Werner Gueth Peter Hammerstein Stevan Harnard Ulrich Hoffrage Bettina Kuon Betrand R. Munier Peter M. Todd Massimo Warglien Martin Weber	Is there evidence for an adaptive toolbox?
99-50	Ulrich Hoffrage Gerd Gigerenzer	How to Foster Diagnostic Insight in Experts

Nr.	Author	Title
99-49	Martin Lages Ulrich Hoffrage Gerd Gigerenzer	Intransitivity of fast and frugal heuristics
99-48	Axel Börsch-Supan Joachim Winter	Pension reform, savings behavior and corporate governance
99-47	Craig R. Fox Martin Weber	Ambiguity Aversion, Comparative Ignorance, and the Role of Context
99-46	Manfred Hassebrauck Cornelia Vogt Michael Diehl	Der Einfluß von Prototypen auf die Informationssuche bei Entscheidungen
99-45	Manfred Hassebrauck Cornelia Vogt Michael Diehl	Das "prototype matching"-Modell des Entscheidungsverhaltens: Der Einfluß kognitiver Belastung, Zeitdruck und Stimmung
99-44	Axel Börsch-Supan Patrizia Tumbarello Robert Palacios	Pension systems in the Middle East and North Africa: A window of opportunity
99-43	Reinhold Schnabel	Vermögen und Ersparnis im Lebenszyklus in Westdeutschland
99-42	Reinhold Schnabel	The Declining Participation in the German PAYG-Pension System
99-41	Reinhold Schnabel	Social Security Reform and Intergenerational Redistribution in Germany
99-40	Reinhold Schnabel	The Golden Years of Social Security – Life-cycle Income, Pensions and Savings in Germany
99-39	Stefan Schwarz Sabine Sczesny Dagmar Stahlberg	Der Hindsight Bias bei gustatorischen Entscheidungen
99-38	Axel Börsch-Supan Anette Reil-Held	Family Resources in Retirement. Germany

Nr.	Author	Title
99-37	Axel Börsch-Supan Rob Euwals Angelika Eymann	Portfolio Choice with Behavioral Decision Mechanisms
99-36	Axel Börsch-Supan	Template for International Savings Comparisons Project
99-35	Stefan Schwarz Dagmar Stahlberg	Hindsight Bias: The Role of Perfect Memory and Meta-Cognitions
99-34	Dagmar Stahlberg Stefan Schwarz	Would I Have Known It All Along if I Would Hate to Know It? The Hindsight Bias in Situations of High and Low Self Esteem Relevance
99-33	Ulrich Hoffrage Ralph Hertwig Gerd Gigerenzer	Hindsight Bias: A By-product of Knowledge Updating
99-32	Ralph Hertwig Ulrich Hoffrage	Begrenzte Rationalität: Die Alternative zu Laplace'schen und schlechter Software
99-31	Raimond Maurer Ulrich Hoffrage	An Expected Utility Approach to Probabilistic Insurance: A Comment on Wakker, Thaler and Tversky (1997)
99-30	Henning Plessner Susanne Haberstroh Tilmann Betsch	The effects of affect-based attitudes on judgment and decision making
99-29	Tilmann Betsch Andreas Glöckner Susanne Haberstroh	A Micro-World Simulation to Study Routine Maintenance and Deviation in Repeated Decision Making
99-28	Jan Walliser Joachim Winter	Tax incentives, bequest motives and the demand for life insurance: evidence from Germany
99-27	Joachim Winter	Ökonometrische Analyse diskreter dynamischer Entscheidungsprozesse
99-26	Gerd Bohner Dagmar Stahlberg Dieter Frey	Einstellungen

Nr.	Author	Title
99-25	Ulrich Hoffrage Martin Weber Ralph Hertwig Valerie Chase	How to keep children save in traffic: Find the daredevils while they are young.
99-24	Elke Kurz Gerd Gigerenzer Ulrich Hoffrage	Representations of uncertainty and change: Three case studies with experts
99-23	Stefan Krauss Laura Martignon Ulrich Hoffrage	Simplifying Bayesian Inference: The General Case
99-22	Ulrich Hoffrage Ralph Hertwig	Hindsight Bias: A Price Worth Paying for Fast and Frugal Memory
99-21	Ulrich Hoffrage	Irren ist wahrscheinlich. Medizinische Experten und Laien bewerten Risiken oft falsch.
99-20	Claudia Keser Jean-Louis Rulliére Marie-Claire Villeval	Union Bargaining Strength as a Public Good: Experimental Evidence
99-19	Rüdiger F. Pohl Dagmar Stahlberg Dieter Frey	I'm not trying to impress you, but I surely knew it all along! Self-presentation and hindsight bias
99-18	Dagmar Stahlberg Lars-Eric Petersen Dirk Dauenheimer	Preferences for and Evaluation on Self-Relevant Information Depending on the Elaboration of the Self-Schemata Involved
99-17	Rob Euwals	Do mandatory pensions decrease household savings? Evidence for the Netherlands.
99-16	Roman Inderst	A Note on the Strategic Foundation of Competitive Equilibrium in Buyer Markets
99-15	Michael Adam Raimond Maurer	An Empirical Test of Risk-Adjusted Performance of Call Option Writing and Put Option Buying Hedge-Strategies
99-14	Anette Reil-Held Reinhold Schnabel	Vom Arbeitsmarkt in den Ruhestand: Die Einkommen deutscher Rentner und Rentnerinnen

Nr.	Author	Title
99-13	Peter Walgenbach	Das Konzept der Vertrauensorganisation - Eine theoriegeleitete Betrachtung
99-12	Herbert Bless Michaela Wänke	Can the same information be typical and atypical? How perceived typicality moderates assimilation and contrast in evaluative judgements
99-11	Eric Igou Herbert Bless Wolfram Schenck	Stärkere Framing Effekte durch mehr Nachdenken? Einflüsse der Bearbeitungszeit auf Lösungen des "Asian-disease"-Problems
99-10	Dirk Dauenheimer Dagmar Stahlberg Sandra Spreemann Constantine Sedikides	Self-Enhancement, Self-Verification, or Self-Assessment? The Intricate Role of Trait Modifiability in the Self-Evaluation Process
99-09	Cornelia Hegele Peter Walgenbach	Was kann der Apfel von der Birne lernen, oder wozu brauchen Unternehmen Benchmarking?
99-08	Michaela Wänke	Assimilation and Contrast as a Function of the direction of Comparison
99-07	Michael Woywode	Ein lerntheoretisches Modell zur Erklärung der Unternehmensent-wicklung
99-06	Tilmann Betsch Susanne Haberstroh Andreas Glöckner Klaus Fiedler	The Pros and Cons of Expertise: Routine Strength and Adaptation in Recurrent Acquisition and Disposal Decisions
99-05	Ulrich Koch	Regeländerungsprozesse und organisatorisches Lernen: Zum Übergang individueller Erfahrungen in eine organisationale Wissensbasis
99-04	Alfred Kieser Ulrich Koch Michael Woywode	Wie man Bürokratien das Lernen beibringt
99-03	Joachim Winter	Strukturelle ökonometrische Verfahren zur Analyse von Renteneintrittsentscheidungen

Nr.	Author	Title
99-02	Axel Börsch-Supan	Ersparnisbildung in Deutschland: Meßkonzepte und
	Anette Reil-Held Ralf Rodepeter Reinhold Schnabel Joachim Winter	Ergebnisse auf Basis der EVS
99-01	Office SFB504	Jahresbericht 1998
98-61	Siegfried K. Berninghaus Karl-Martin Ehrhart	Long-run Evolution of Local Interaction Structures in Games
98-60	Isabel Gödde Reinhold Schnabel	Does Family Background Matter? - Returns to Education and Family Characteristics in Germany
98-59	Holger M. Müller	Why Tender Offers Should be Financed with Debt
98-58	Ralf Rodepeter Joachim Winter	Savings decisions under life-time and earnings uncertainty:
98-57	Thomas Langer Martin Weber	Entscheidungsanalyse
98-56	Reinhold Schnabel	Rates of Return of the German Pay-As-You-Go Pension System
98-55	Raimond Maurer Steffen Sebastian	Immobilienfonds und Immobilienaktiengesellschaften als finanzwirtschaftliche Substitute für Immobiliendirektanlagen
98-54	Michaela Wänke Herbert Bless Eric Igou	Next to a star: Paling, shining or both? Turning inter-exemplar contrast into inter-exemplar assimilation
98-53	Gerd Gigerenzer Laura Martignon Ulrich Hoffrage Joerg Rieskamp Jean Czerlinski Dan G. Goldstein	One-reason decision making.

Nr.	Author	Title
98-52	Gerd Gigerenzer Ralph Hertwig Ulrich Hoffrage Peter Sedlmeier	Cognitive illusions reconsidered
98-51	Gerd Gigerenzer Ulrich Hoffrage	Overcoming Difficulties in Bayesian Reasoning: A Reply to Lewis & Keren and Mellers & McGraw
98-50	Roman Inderst	Signaling in a Search Market
98-49	Paul Povel Michael Raith	Liquidity Constraints, Production Costs and Output Decisions
98-48	Joachim Winter	Does Firms' Financial Status Affect Plant-Level Investment and Exit Decision
98-47	Michele Bernasconi Oliver Kirchkamp	Why monetary policy matters — An experimental study of saving, inflation and monetary policies in an overlapping generations model
98-46	Oliver Kirchkamp	Simultaneous Evolution of Learning Rules and Strategies
98-45	Martin Weber Jan Pieter Krahnen Frank Voßmann	Risikomessung im Kreditgeschäft: Eine empirische Analyse bankinterner Ratingverfahren
98-44	Axel Börsch-Supan	Anreizprobleme in der Renten- und Krankenversicherung
98-43	Martin Hellwig	On the Economics and Politics of Corporate Finance and Corporate Control
98-42	Axel Börsch-Supan	Demographie, Entwicklung und Stabilität der Sozialversicherung in Deutschland
98-41	Axel Börsch-Supan	Zur deutschen Diskussion eines Übergangs vom Umlage- zum Kapitaldeckungsverfahren in der Gesetzlichen Rentenversicherung
98-40	Axel Börsch-Supan	A Model under Siege: A Case Study of the Germany Retirement Insurance System

Nr.	Author	Title
98-39	Martin Hellwig	Financial Intermediation with Risk Aversion
98-38	Martin Hellwig	Risk Aversion and Incentive Compatibility with Ex Post Information Asymmetry
98-37	Roman Inderst Christian Pfeil	Duopolistic Competition in Search Markets
98-36	Roman Inderst	Incentives Schemes as a Signaling Device
98-35	Roman Inderst	Multi-Issue Bargaining with Endogenous Agenda
98-34	Roman Inderst	Competition Drives Up Prices
98-33	Roman Inderst	A Note on the Limited Value of Time for Screening
98-32	Roman Inderst	Screening With Endogenous Reservation Values
98-31	Paul Povel	optimal bankruptcy laws
98-30	Martin Hellwig	Systemische Risiken im Finanzsektor
98-29	Axel Börsch-Supan	Incentive Effects of Social Security on Labor Force Participation: Evidence in Germany and Across Europe
98-22	Phillipe Jehiel Benny Moldovanu	Efficient Design with Interdependent Valuations
98-21	Benny Moldovanu Aner Sela	Patent Licensing to Bertrand Competitors
98-20	Alfred Kieser	How Management Science, Consultancies and Business Companies (Do not) Learn from Each Other. Applying Concepts of Learning to Different Types of Organizations and to Interorganizational Learning
98-16	Tilmann Betsch Babette Brinkmann Klaus Fiedler Katja Breining	When prior knowledge overrules new evidence: Adaptive use of decision strategies and role behavioral routines

Nr.	Author	Title
98-15	Klaus Fiedler	Illusory Correlations: Explicating and Stimulating Their Apparent and Less Apparent Origins
98-14	Klaus Fiedler Babette Brinkmann Tilmann Betsch Beate Wild	A Sampling Approach to Biases in Conditional Probability Judgments: Beyond Baserate-Neglect and Statistical Format
98-13	Tilmann Betsch Stefan Krauss	Eine Kritik an der klassischen Framing - Studie, eine konzeptuelle Replikation und eine Bewertung der Prospect Theory.
98-12	Siegfried K. Berninghaus Karl-Martin Ehrhart Claudia Keser	Conventions and Local Interaction Structures: Experimental Evidence
98-11	Michael Kilka Martin Weber	What Determines the Shape of the Probability Weighting Function under Uncertainty?
98-10	Tilmann Betsch Frank Siebler Peter Marz Stefan Hormuth Dorothee Dickenberger	The moderating role of category salience and category focus in judgments of set size and frequency of occurence.
98-08	Peter Albrecht	Alterssicherung und Vorsorgebedarf im Spannungsfeld von Versicherungs- und Investmentprodukten
98-07	Axel Börsch-Supan Anette Reil-Held Reinhold Schnabel	Pension Provision in Germany
98-06	Martin Hellwig Klaus M. Schmidt	Discrete-Time Approximations of the Holmström-Milgrom Brownian-Motion, Model of Intertemporal Incentive Provision
98-05	Tilmann Betsch G M. Biel C. Eddelbuettel A. Mock	Natural sampling and base-rate neglect

Nr.	Author	Title
98-04	Martin Hellwig	Allowing for Risk Choices in Diamond's "Financial Intermediation as Delegated Monitoring"
98-03	Martin Weber Lukas Mangelsdorff	Hindsight-Bias im Prinzipal-Agent-Kontext: Die Aktennotiz als Antwort?
98-02	Alfred Kieser Nikolaus Beck Risto Tainio	Limited Rationality, Formal Organizational Rules, and Organizational Learning (OL)
98-01	Office SFB504	Sonderforschungsbereich 504 Jahresbericht 1998
97-44	Raimond Maurer Michael Adam	Analytische Evaluation des Risiko-Chance-Profils kombinierter Aktien- und Optionsstrategien
97-43	Holger M. Müller	The Mirrlees-Problem Revisited
97-42	Anette Reil-Held	Bequests and Aggregate Wealth Accumulation in Germany
97-41	Axel Börsch-Supan	Übergangsmodelle vom Umlage - zum Kapitaldeckungsverfahren in der deutschen Rentenversicherung
97-40	Siegfried K. Berninghaus Karl-Martin Ehrhart Claudia Keser	The invisible hand: Experiments on strategy selection in population games
97-39	Axel Börsch-Supan Anette Reil-Held	Retirement Income: Level, Risk, and Substitution Among Income Components
97-38	Holger M. Müller	The First-Best Sharing Rule in the Continuous-Time Principal-Agent Problem with Exponential Utility
97-37	Holger M. Müller	Randomization in Dynamic Principal-Agent Problems
97-36	Gyöngyi Bugàr Raimond Maurer	International Portfolio Diversification for European countries: The viewpoint of Hungarian and German investors

Nr.	Author	Title
97-35	Martin Hellwig	Banks, Markets, and the Allocation of Risks in an Economy
97-34	Nikolaus Beck Alfred Kieser	Standard Operating Procedures and Organizational Learning
97-33	Thomas Langer Peter Waller	Implementing Behavioral Concepts into Banking Theory: The Impact of Loss Aversion on Collateralization
97-32	Guenther Franke Martin Weber	Risk-Value Efficient Portfolios and Asset Pricing
97-31	Axel Börsch-Supan	Das deutsche Rentenversicherungssystem: Probleme und Perspektiven
97-30	Claudia Keser Marc Willinger	Principals
97-29	Siegfried K. Berninghaus Karl-Martin Ehrhart Claudia Keser	Coordination Games: Recent Experimental Results
97-28	Peter Albrecht	A Stochastic Approach for the Quantification of Default Risk of OTC-Financial Derivatives
97-27	Dagmar Stahlberg A. Maass	Hindsight bias: Impaired memory or biased reconstruction?
97-26	Manfred Hassebrauck Cornelia Vogt Michael Diehl	Das "prototype matching"-Modell des Entscheidungsverhaltens: Darstellung des Modells und erste Ergebnisse
97-24	Claudia Keser	SUPER: Strategies used in public goods experimentation rounds
97-23	Axel Börsch-Supan	Germany: A social security system on the verge of collaps
97-22	Axel Börsch-Supan	Privatisierungsmöglichkeiten der Sozialversicherung in Europa
97-21	Axel Börsch-Supan	Capital productivity and the nature of competition

Nr.	Author	Title
97-20	Axel Börsch-Supan Reinhold Schnabel	Social security and retirement in germany
97-19	Raimond Maurer	Ertrag und Shortfall Risiko von Wertsicherungsstrategien mit Optionen unter alternativen Zielrenditen: Empirische Evidenzen für den deutschen Aktienmarkt
97-18	Peter Albrecht	Risk based capital allocation and risk adjusted performance management in property/liability-insurance: A risk theoretical framework
97-17	Peter Albrecht Raimond Maurer Matthias Möller	Shortfall-Risiko/Excess-Chance- Entscheidungskalküle: Grundlagen und Beziehungen zum Bernoulli-Prinzip
97-16	Claudia Keser Karl-Martin Ehrhart Siegfried K. Berninghaus	Coordination and local interaction: Experimental evidence
97-15	Herbert Bless Tilmann Betsch Axel Franzen	Framing the framing effect: The impact of context cues on solutions to the "asian disease" problem
97-14	Michael Kilka Martin Weber	Home Bias in International Stock Return Expectation
97-13	Jan Vleugels	Bidding against an unknown number of competitiors sharing affiliated information
97-12	Dov Monderer Aner Sela	Fictitious play and- no-cycling conditions
97-11	S. Hon-Suir Dov Monderer Aner Sela	A learning approach to auctions
97-10	Karl H. Schlag Aner Sela	You play (an auction) only once
97-09	Aner Sela	One against all in the fictitious play process

Nr.	Author	Title
97-08	Benny Moldovanu	William Vickrey und die Auktionstheorie - Anmerkungen zum Nobelpreis 1996
97-07	M. Tietzel Benny Moldovanu	Goethe
97-06	Phillipe Jehiel Benny Moldovanu	Auctions with Downstream Interaction among Buyers
97-05	Phillipe Jehiel Benny Moldovanu	Resale Markets and the Assignment of Property Rights
97-04	Phillipe Jehiel Benny Moldovanu E. Stacchetti	Multidimensional Mechanism Design for Auctions with Externalities
97-03	Karsten Fieseler	Bidding for unit-price contracts - How craftsmen should bid
97-02	Martin Hellwig	Unternehmensfinanzierung, Unternehmenskontrolle und Ressourcenallokation: Was leistet das Finanzsystem?
97-01	Ralf Rodepeter	Identifikation von Sparprofilen im Lebenszyklus
	Tri Vi Dang	On Bargaining with Endogenous Information
	Tri Vi Dang	Alternating Offer Bargaining with Endogenous Information: Timing and Surplus Division

Nr.	Author	Title
05-39	Tri Vi Dang	Alternating Offer Bargaining with Endogenous Information: Timing and Surplus Division
05-38	Tri Vi Dang	On Bargaining with Endogenous Information
05-37	Patric Andersson	Overconfident but yet well-calibrated and underconfident: A research note on judgmental miscalibration and flawed self-assessment*
05-36	Peter Dürsch Albert Kolb Jörg Oechssler Burkhard Schipper	Rage Against the Machines: How Subjects Learn to Play Against Computers
05-35	Siegfried K. Berninghaus Hans Haller Alexander Outkin	Neural Networks and Contagion
05-34	Jacques Durieu Hans Haller Philippe Solal	Interaction on Hypergraphs
05-33	Markus Glaser Martin Weber	Which Past Returns Affect Trading Volume?
05-32	Zacharias Sautner Martin Weber	Corporate Governance and the Design of Stock Option Programs
05-31	Zacharias Sautner Martin Weber	Subjective Stock Option Values and Exercise Decisions: Determinants and Consistency
05-30	Patric Andersson Richard Tour	How to Sample Behavior and Emotions of Traders:
05-29	Carsten Schmidt Ro'i Zultan	The Uncontrolled Social Utility Hypothesis Revisited
05-28	Peter Albrecht Joachim Coche Raimond Maurer Ralph Rogalla	Optimal Investment Policies for Hybrid Pension Plans - Analyzing the Perspective of Sponsors and Members

Nr.	Author	Title
05-27	Oliver Kirchkamp Rosemarie Nagel	Learning and cooperation in network experiments
05-26	Zacharias Sautner Martin Weber	Stock Options and Employee Behavior
05-25	Markus Glaser Thomas Langer Martin Weber	Overconfidence of Professionals and Lay Men: Individual Differences Within and Between Tasks?
05-24	Volker Stocké	Determinanten und Konsequenzen von Nonresponse in egozentrierten Netzwerkstudien
05-23	Lothar Essig	Household Saving in Germany:
05-22	Lothar Essig	Precautionary saving and old-age provisions: Do subjective saving motives measures work?
05-21	Lothar Essig	Imputing total expenditures from a non-exhaustive
05-20	Lothar Essig	Measures for savings and saving rates in the German SAVE data set
05-19	Axel Börsch-Supan Lothar Essig	Personal assets and pension reform: How well prepared are the Germans?
05-18	Lothar Essig Joachim Winter	Item nonresponse to financial questions in household surveys: An experimental study of interviewer and mode effects
05-17	Lothar Essig	Methodological aspects of the SAVE data set
05-16	Hartmut Esser	Rationalität und Bindung. Das Modell der Frame-Selektion und die Erklärung des normativen Handelns
05-15	Hartmut Esser	Affektuelles Handeln: Emotionen und das Modell der Frame-Selektion
05-14	Gerald Seidel	Endogenous Inflation - The Role of Expectations and Strategic Interaction

Nr.	Author	Title
05 12	Ionnia Diachof	Tur Froud on the montrat Theorie in
05-13	Jannis Bischof	Zur Fraud-on-the-market-Theorie im
		Kanitalmarktrecht: Theoretische Grundlagen
		Rechtsprechungsentwicklung und Materialien
		Reenspreenungsent wieklung und Materianen
05-12	Daniel Schunk	Search behaviour with reference point preferences:
05-11	Clemens Kroneberg	Die Definition der Situation und die variable Rationalität der Akteure. Ein allgemeines Modell des Handelns auf der Basis von Hartmut Essers Frame-Selektionstheorie
05-10	Sina Borgsen Markus Glaser	Diversifikationseffekte durch Small und Mid Caps?
05-09	Gerald Seidel	Fair Behavior and Inflation Persistence
05-08	Alexander Zimper	Equivalence between best responses and undominated
05-07	Hendrik Hakenes Isabel Schnabel	Bank Size and Risk-Taking under Basel II
05-06	Thomas Gschwend	Ticket-Splitting and Strategic Voting
05-05	Axel Börsch-Supan	Risiken im Lebenszyklus: Theorie und Evidenz
05-04	Franz Rothlauf Daniel Schunk Jella Pfeiffer	Classification of Human Decision Behavior: Finding
05-03	Thomas Gschwend	Institutional Incentives for Strategic Voting:
05-02	Siegfried K. Berninghaus Karl-Martin Ehrhart Marion Ott	A Network Experiment in Continuous Time:
05-01	Geschäftsstelle	Jahresbericht 2004
04-70	Felix Freyland	Household Composition and Savings: An Empirical Analysis based on the German SOEP data
04-69	Felix Freyland	Household Composition and Savings: An Overview