

Annual Report 2000

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1 Introduction

1.1 SOM in brief

SOM (Systems, Organisation and Management) is the joint research school of the faculties of Management & Organisation, Economics and Spatial Sciences at the University of Groningen. It combines and stimulates disciplinary and interdisciplinary research meeting international standards. The school also provides the training and research environment for PhD students. SOM was officially recognised by the Royal Netherlands Academy of Sciences in May 1998. Since 1999 researchers from the Nijmegen Business School of Nijmegen University participate in SOM.

The mission of SOM is to stimulate fundamental and applied research related to the firm in its economic, spatial and demographic environment and to provide a PhD programme with a high international standard. The research area of SOM exceeds the traditional boundaries of business economics and management & organisation as it also explicitly includes the various environments in which firms operate.

SOM has its own budget for activities like seminars, visitors and workshops, to which all the faculties participating in SOM contribute. The faculties of Management & Organisation and Economics both contribute 45%, and the remaining 10% is financed by the faculty of Spatial Sciences. Also the personnel costs of the SOM bureau are financed in this way. Various other research activities, however, are financed through the budgets of the participating faculties. SOM still tries to harmonise these policies as much as possible. An important step forward was the decision of the faculty of Economics to delegate the administration of the remaining research budget of the faculty (mainly travel funds) to SOM.

1.2 The year 2000 in brief

In the year 2000, SOM mainly focussed on the maintenance of already developed lines of policy, partly because of personnel changes within the SOM bureau. Nevertheless, a few new initiatives were taken. For instance, in the spring an evaluation of SOM's PhD programme took place and in the fall the process of restyling SOM outlets was started, including the design of a new SOM logo.

**stimulate
fundamental and
applied research
related to the firm**

**new theme on
management and
organisation/
new focus theme D**

**increasing number of
postdocs**

**hardly any
PhD vacancies at the
end of the year**

Also proposals for establishing a new theme on management and organisation and for a new focus of SOM theme D towards regional science were developed.

Progress has been made in increasing the number of postdocs. The University Board granted SOM eight postdoc positions as part of the so-called breedtestrategie. NWO has awarded researchers of SOM, together with colleagues from Eindhoven and Maastricht, a grant for a large project on the impact of technology diffusion and spillovers on economic growth. Also, funding was awarded in the context of the NWO programme on the electronic highway.

For the first time in many years there were hardly any PhD vacancies at the end of the year due to various policy initiatives.

1.3 Fellows and associate fellows

Fellows and associate fellows can, in principle, spend 40% of their time on research. The status of associate fellow is a temporary one: after three years the associate fellow is required to have enough credit points to become a fellow (see the box for the criteria). SOM fellows also have a higher budget for travelling. The table below shows the number of fellows and associate fellows per faculty.

Faculty	Number of fellows	Number of associate fellows
Management & Organisation	16	18
Economics	42	15
Spatial Sciences	6	3
Policy Sciences (Nijmegen)	6	9

In 2000 SOM's Governing Board decided not to change the criteria. As a consequence of the rules it is expected that in 2001 a few associate fellows and fellows will lose their SOM status, because they will not meet the criteria over a period of three years.

Criteria for (associate) fellowship of SOM

To hold a PhD Degree

To do research that fits into one of SOM's research areas

To have a minimum number of credit points, measured over a (moving) period of four years. The following rules apply:

- One credit point is granted for a dissertation, a scientific monograph and for a paper in an international and refereed journal;
- For a publication in a refereed book published by a highly reputable international publisher 0.5 credit point is granted;
- For a SOM research report 0.25 credit point is granted;
- In case of n authors, each author is granted $2/(n+1)$ of the points

Fellows need 4 credit points, associate fellows 2 credit points

1.4 Postdocs

In 2000 the SOM proposal for the Breedtestrategie was approved. The central research question of the proposal is what determines a firm's ability to adapt to technological, demographic, competitive and societal changes and how does this affect the firm's performance (in terms of, e.g., profitability and longevity)? Under this general heading eight more detailed research questions are specified in the form of research proposals for post-docs.

The objectives of the research proposal are to:

- further the coherence of SOM by stimulating co-operation of researchers from the various faculties participating in SOM;
- improve the quality and quantity of SOM research.

It contains 8 projects, which all deal with firms' ability to adapt and brings together well-established researchers from various backgrounds. The list of projects:

- 1 The sources of innovation in services: reconciling the macroeconomic and firm-level evidence: Bart van Ark (SOM theme B and C), Erik Dietzenbacher (SOM theme B, C and D), and Rob Vossen (SOM theme B)
- 2 Management of network relations in high-tech co-operative relationships: Dirk Jan Kamann (theme B) and Theo Postma (theme B)

**SOM proposal
Breedtestrategie
approved**

**eight research
proposals for
post-docs**

- 3 Demographic variables in marketing research: conceptual and modeling issues: Michel Wedel (theme F) and Frans Willekens (theme D)
- 4 Multinational enterprises as learning organisations: Arndt Sorge (theme A) and Arjen van Witteloostuijn (theme A)
- 5 The dynamics of interfirm relationships in a changing world: Rob Vossen (theme B) and Catrinus Jepma (theme C)
- 6 Entrepreneurial human and knowledge capital, and organisational change: René Jorna (theme A) and Arjen van Witteloostuijn (theme A)
- 7 The customer concept and its impact on market structure: Wim Biemans (theme B), Jannie Hoekstra (theme F), Peter Leeftang (theme F) and Dick Wittink (theme F).
- 8 The economics and econometrics of sales promotions: Peter Kooreman (theme F), Peter Leeftang (theme F) and Tom Wansbeek (theme F)

The projects are all postdoc projects for various reasons. First, until recently there were hardly any postdoc positions for full-time research within the SOM faculties. Over the last couple of years their number has increased somewhat, but there is still a need for additional postdoc positions. Second, by creating more postdoc positions SOM aims to create a pool of researchers who may in the future apply for other research positions, such as KNAW-fellowships or funds from the so-called Vernieuwingsimpuls (Innovation stimulus program). Finally, investing in postdocs may in general be expected to be more productive in terms of output in the short run, than, for example, investments in PhD positions.

postdoc position Grotius Programme

In 2000, a two-year postdoc position for Michel van de Velden under the heading of the so-called Grotius Programme was also granted. His research is on correspondence analysis, optimal scaling, preference data, multivariate analysis and linear algebra.

NWO has awarded two postdoc positions

NWO has awarded researchers of SOM, together with colleagues from Eindhoven and Maastricht, for a large project on the impact of technology diffusion and spillovers on economic growth. The project includes two postdoc positions for researchers of SOM theme C.

1.4 Network Institutional Economics

The Dutch Network Institutional Economics was founded in 1997 and has been part of SOM since then. Researchers in the field of institutional economics are not only employed at the University of Groningen. Researchers from other universities in the Netherlands and at public and private enterprises are also participating in this network.

**new coordinator
of the Dutch Network
Institutional
Economics**

In May 2000, Yohanes Riyanto became the new coordinator of the Dutch Network Institutional Economics (DNIE). He received his PhD in economics at the University of Leuven in June 2000. He has been appointed as postdoc researcher for three years at SOM. Since December 2000, Evert Schoorl – SOM's previous director of Graduate Studies – has joined the DNIE team. His main research area is history of economic thought.

The Network published four newsletters in February, May, September and December. Various activities were organised.

On January 13, 2000 the DNIE organised a seminar where Bob Scapens (University of Manchester and University of Groningen) presented a paper called "Conceptualising management accounting change: an institutional framework". Discussant was Ben Gales.

On April 20, 2000 the DNIE – in co-operation with the Institute of Social Studies – organised a workshop on Institutions and Economic Development. Four papers were presented by researchers from the University of Wageningen, the Free University of Amsterdam and the Erasmus University.

On May 18, 2000 Hans Schenk (University of Tilburg and Erasmus University) presented a paper called "Policy implications of purely strategic mergers" at a DNIE seminar in Groningen. Discussant was Arndt Sorge (University of Groningen).

Two more seminars were organised on 23 November and 7 December 2000. Speaker at the first seminar was Frederic Warzynski from LICOS (Leuven Institute for Central and Eastern Europe Studies). He presented a paper called "The causes and consequences of managerial change in Ukraine and the complementarity of reforms". Ard Schilder from the Dutch Ministry of Finance was the speaker at the second seminar. The title of his presentation was "Government Failures and Institutions in Public Policy Evaluation; The case of Dutch technology policy".

2 Organisation

responsible for the daily management

2.1 Bureau

The SOM bureau is responsible for the daily management of the research school. At the end of 2000 the bureau was composed as follows:

Scientific director: Prof.dr. J. de Haan

PhD coordinator: Vacancy (Dr. E. Schoorl until December)

Office manager: Mrs. A.C. Koning

secretaries:

Ms. A. Huisman

Ms. C. Feiken (Ms. L. Huizinga until October)

takes general policy decisions

2.2 Governing Board

The board takes all decisions on the basis of advice from the scientific director and various committees and meets every six weeks. According to the SOM rules each participating faculty is represented by one member. At the end of 2000 the board was composed as follows:

Faculty of Spatial Sciences: Prof.dr. F.Willekens: chairman

Faculty of Economics: Prof.dr. T.Wansbeek

Faculty of Management and Organisation: Prof.dr. J.Wijngaard

The scientific director and the PhD coordinator as well as the managing director of the coordinating faculty, Mrs. N. Schouten, are advisory members. Secretary of the board is Mrs. A.C. Koning.

gives general policy advice

2.3 Advisory Board

At the end of 2000 the members of SOM's Advisory Board were:

Prof. dr. P. Vanden Abeele, Catholic University Leuven, Belgium

Prof. dr A.W.A. Boot, University of Amsterdam, The Netherlands

Prof. dr. Ir. R. van Dierdonck, University of Ghent, Belgium

Prof. dr. B. Goodall, University of Reading, United Kingdom

Prof. dr. P. de Grauwe, Catholic University of Leuven, Belgium

Prof. dr. M. T. Hannan, Stanford University, USA
Prof. dr. P. Hooimeijer, University of Utrecht, The Netherlands
Prof. dr. T. Kloek, Erasmus University Rotterdam, The Netherlands
Prof. dr. D. Laidler, University of Western Ontario, Canada
Prof. dr. J.K. Lenstra, Technical University of Eindhoven,
The Netherlands
Prof. dr. R. Lesthaeghe, Free University of Brussels, Belgium
Prof. dr. G. Pyatt, Institute of Social Studies, The Hague,
The Netherlands
Prof. dr. J. van Sinderen, Erasmus University Rotterdam,
The Netherlands
Prof. dr. K.F. Wallis, University of Warwick, United Kingdom

2.4 Scientific committee

SOM's scientific committee is responsible for approving individual projects (mostly PhD and postdoc projects) and gives advice about research in general. Its members are the scientific director, the coordinators of the various research groups in SOM (see chapter 3) and five other SOM fellows. At the end of 2000 these members were:

approving projects

Scientific director: Prof.dr. J. de Haan

Themeleaders:

Prof.dr. R. Jorna (theme A)
Dr. R. Vossen (theme B)
Prof.dr. B. van Ark (theme C)
Prof.dr. F. Willekens (theme D)
Prof.dr. E. Sterken (theme E)
Prof.dr. P. Kooreman (theme F)

Fellows:

Dr. W. Biemans
Dr. E. Dietzenbacher
Prof.dr. J. van Dijk
Dr. J. Slomp
Prof.dr. A. Sorge

Advisory member:

PhD coordinator, vacancy

Secretary of the committee is Mrs. A.C. Koning.

**advices about
PhD education**

2.5 PhD Education Committee

The PhD Education Committee is responsible for the PhD education programme. It advises about the proportion of compulsory SOM courses in relation to the courses with the national networks of PhD education, about the content of the courses and about PhD matters in general. Due to several circumstances the PhD education committee did not meet on a regular basis in 2000. With the arrival of a new PhD coordinator in the spring 2001 a new start will be made.

Scientific director: Prof.dr. J. de Haan

PhD coordinator: Vacancy

Fellows:

Prof.dr. J. van Dijk

Prof.dr. E. Molleman

Dr. B. Schoonbeek (until November: Prof.dr. E. Sterken)

PhD candidates:

Drs. C.-J. Pen

Drs. L. Sjarbaini

Vacancy

**facilitate
communications**

2.6 PhD Committee

The role of this committee is to facilitate communications from SOM to the PhD students and vice versa. The committee will act as an independent source of information for PhD students, keeping them up-to-date on decisions that are taken and plans that are under discussion.

This information can be found through a link to the PhD committee on the SOM homepage.

The communication from the PhD population to SOM is also an important part of the committee's task. The director of SOM can ask for the committee's opinion about plans and current matters. Also, the committee can initiate plans for a better use of the advantages of SOM. PhD students can submit plans or opinions to the committee, either by seeing one of the members or through e-mail. For this reason, the composition of the committee is such that there is always a member a few doors away.

The members were:

Drs. A. Brouwer

Drs. P. Ebbes

Drs. E. Leertouwer

Drs. S. Rispens

Drs. B. Smid

Drs. F. Wijbenga

3 Research

Researchers in SOM participate in one or more research groups (themes). Plans for a new theme on management and organisation were developed in 2000. Researchers from the faculties of Economics and Management and Organisation will closely work together in this new theme. Also plans for a new focus of the SOM theme D towards regional science were developed. They will imply that researchers from all faculties will participate in this theme.

A short description of the research themes is provided below. Appendix 1 provides a list of all (associate) fellows of SOM and two of their international publications in 2000.

3.1 Theme A: Primary processes within firms

Coordinator: R. Jorna

Within this theme research is directed towards interactions between different levels of aggregation within an organisation. The emphasis is mainly on various primary process in organisations, but so-called secondary or supporting processes are also taken into account.

The various subgroups that participate in theme A are working on the following research issues:

- Coordination and lay-out organization and production systems.
- Work organization and human resource management, including socio-technics.
- Planning and scheduling, including an Operations Research and a Cognitive Science perspective.
- Decision making, ranging from organisational analysis and redesign to mathematical analysis and decision support systems.
- Knowledge management, that is to say the determination of crucial knowledge, of knowledge types and knowledge change and the relation to knowledge systems.

Fellows:

J. Benders, B. Dankbaar, G. Gaalman, J. van Helden, P. Hendriks, R. Jorna, W. Klein Haneveld, M. Mobach, E. Molleman, E. Nijssen, R. Scapens, G. Sierksma, J. Slomp, A. Sorge, M. van der Vlerk, H. van de Water, J. Wijngaard, A. van Witteloostuijn, A. van der Zwaan.

interactions between different levels of aggregation within an organisation

Associate Fellows:

E. Bax, Y. Benschop, M. ter Bogt, E. de Brock, J. Bruggeman, J. Doorewaard, D. van Donk, H. von Eije, B. Emans, H. Gazendam, D. Ghosh, B. van Heusden, P. van Hootegem, L. Karsten, W. Martens, A. Nauta, W. de Nijs, M. van Offenbeek, F. Poutsma, J. Teelken, D. Vriens, J. van der Werf, M. de Witte, D.J. van der Zee.

PhD Candidates:

A. van den Beukel, G. Blaauw, J. Bokhorst, P. Bosch-Sytsema, A. Budihardjo Surijah, S. Drijver, D. Gemici, F. Grotenhuis, A. Hellenthal, B. Kibriscikli, F. ten Kleij, A. van Rheede, S. Rispens, L. Sjarbaini, M. van der Steen, E. Talens, G. Welker, G. Xiang, H. Yue, Z. Zhang, K. Zoethout, L. Zomerdijk.

3.2 Theme B: Innovation and interaction

Coordinator: R. Vossen

innovation and diffusion

management of alliances

Topics studied include the economics of innovation and diffusion, innovation management, entrepreneurship, joint product development, strategy formation in innovative firms, international technological co-operation, technology policy, learning in and between firms, knowledge management, buyer-supplier relations, management of alliances, network analysis, computer simulations representing processes of interaction and mutual adjustment, conditions for competition vs. cooperation.

Theoretically, the theme is rooted in economics (transaction cost economics, evolutionary and institutional theory, growth theory), as well as in social exchange theory, theories of learning and adaptation, and sociometric network analysis. The research methodology is theoretical (e.g. models of innovation and diffusion, organisational learning, computer simulations), as well as empirical (including quantitative research on the basis of survey data, and qualitative research oriented to processes in individual cases).

Fellows:

B. van Ark, W. Biemans, L. Broersma, P. Buckley, E. Dietzenbacher, P. Ghauri, R. Jorna, P. Leeftang, R. Leenders, I. Maignan, G. Péli, R. Vossen.

Associate fellows:

G. Gemser, W. Jager, D. Kamann, B. Los, C. Lutz, Th. Postma, J. Smits, M. Timmer.

PhD candidates:

A. Ali Hamid, E. Bakker, N. Campbell, X. Cao, M. Hummel, R. Kok, B. Oosterman, J. Waalkens, S. Wahyuni Wibisono, D. Welling, F. Wijbenga.

3.3 Theme C: Coordination and growth in economies

Coordinator: B. van Ark

This theme incorporates SOM-research on economic growth and related coordination issues. Part of the research programme focuses on the analysis of the determinants of economic growth, including trade, migration, technological change and investment in human, physical and infrastructural capital. There is much emphasis on spatial (both international and regional) and sectoral patterns of growth. Interdependency in terms of comparative analysis and system analysis is the key to many of the projects. The other part of the research concentrates on coordination issues in product-, labour- and capital markets and their impact on growth. It is related to recent research in institutional economics, and to research on static and dynamic efficiency. The link between the two pillars of this theme provides a perspective on the functioning of the environment in which firms operate and how this environment affects the relation between firm behaviour and macroeconomic growth performance of economies. The research is mainly rooted in macroeconomics, international economics and business, regional economics, applied econometrics and economic history. It uses major research tools, such as general equilibrium models, stochastic modelling, structural growth models, input-output analysis, growth accounting techniques and quantitative economic history.

Close links exist with other SOM research, such as research on corporate governance and banks (themes B and E), labour market (theme D) and technology (theme B).

Fellows:

B. van Ark, S. Brakman, L. Broersma, L. Delsen, E. Dietzenbacher, R. Fremdling, H. Garretsen, J. de Haan, B. Heijdra, N. Hermes, C. Japma, T. van de Klundert, G. Kuper, R. Lensink, J. Oosterhaven, L. Serrano Martinez, J.E. Sturm, Z. Zhang.

Associate Fellows:

P. Elhorst, J. Jacobs, E. de Jong, F. de Kam, B. Los, J. Smits, D. Strijker, M. Timmer, A. de Vaal.

determinants of economic growth

coordination issues

markets and their impact on growth

PhD candidates:

X. Cao, P.H. van Mulligen, A. Ruijs, J. Sleifer, I. Hakan Yetkiner, A. Zeilstra.

3.4 Theme D: Demographic and geographic environment

Coordinator: F.Willekens

demographic and geographic environment in which firms operate

This research group focusses on the demographic and geographic environment in which firms operate. In modern demography, the population composition is studied in terms of personal attributes, which change during the life course. The modelling of patterns in this life course, as outcomes of underlying causal mechanisms, and resulting in population change, is a major challenge to basic demographic research. Particularly important is the context in which people live (family, community, nation, international setting) and which imposes rules of behaviour. Demography is relevant to insurance, social security and public finance, labour economics, human resources management, and marketing. Thus, it connects to themes B, F, and E. A major advance in applied demography occurred when it was realized that the unit of analysis does not have to be the individual or household, but could be any entity or organization that has a life of its own; i.e. that originates, ages, and matures while going through various stages, and eventually dies or dissolves. Thus, the life cycle of firms and even regions, comes within the scope of demographic analysis.

The other focal point of this research group is the study of the spatial organisation of economic activities, which constitutes the key objective of economic geography. The location problem is a central issue, both viewed from the side of the firm (investment decisions, location choice processes, objective and subjective location factors), from the side of the region (regional development and policy, regional labour markets, regional images) and from the side of the individual (employment opportunities, migration). The factors of transport, infrastructure and especially labour receive special attention. Government policies regarding these subjects naturally belong to the study field as well. Efforts are made to reach a new methodological focus in the so-called demography-of-firms approach, which will link the research activities more closely to demographic research.

Fellows:

J. van Dijk, I. Hutter, T. Immink, L. Nusse, P. Pellenbarg, S. Scherbov, F. Willekens, L. van Wissen.

Associate fellows:

P. Groote, S. Padmadas, P. Rao Sahib.

PhD candidates:

A. Bosch, L. Brons, A. Brouwer, M. den Draak, T. Haartsen, G. Hoogstra, R. Jennissen, M. Kathan, A. Mamun, I. Mariotti, S. Muhidin, C.-J. Pen, C. Simon, T. Sobotka, J. Spijker.

3.5. Theme E: Financial markets and institutions

Coordinator: E. Sterken

This field of research encompasses both financial and monetary economics. The common interest is the analysis of both financial structures and financial products. The nature of the research varies from theoretical to applied (econometric) work.

The group studies financial behaviour of the firm. Both the financial decisions taken by the firm and the behaviour of financial stakeholders in the firm are analysed. From the firm perspective the following non-comprehensive list of questions is addressed. How are real and financial decisions of the firm aligned? What kind of financial instruments should the firm use? How can we model the firm's decision to demand external funds (IPO's)? What is the optimal design of bank-firm relationships? How do capital market imperfections affect firm behaviour? How should the firm signal its stakeholders using accounting data (market-based accounting)? From the financial capital supplier's perspective issues in corporate governance are studied. What is the role of banks and institutional investors as supplier of funds?

A second field is the analysis of the financial structure. The nature of the research here is both micro- and macroeconomic. Microeconomic issues are the following. How can financial intermediation be explained? What determines the private bank behaviour? How competitive is the banking sector? The macroeconomic studies of financial structure start from the theory of market imperfections. How should we design monetary policy (central bank independence)? What are the macroeconomic consequences of the design of the financial structure? How is monetary policy transmitted? Is the financial system stable? What are the long-run determinants of interest rates? What explains merger and acquisition behaviour?

A third topic is the study of financial products. The group studies issues in valuation and design of products. Valuation is studied from the perspective of mathematical finance. Products are priced in full equilibrium assuming perfect information using the no-arbitrage assumption. How should we price derivatives, model the term structure and model instruments that hedge financial risk? How can we manage assets and liabilities

**analysis
financial structures
and financial
products**

(ALM)? Both theoretical work and econometric studies are performed. For instance: how can we use the linear regression model to price derivatives? The design of financial products is analysed using contract theory.

Fellows:

S. Benninga, T. Dijkstra, H. van Ees, H. Garretsen, J. de Haan, N. Hermes, G. Jiang, R. Lensink, H. Nieuwenhuis, B. Scholtens, L. Schoonbeek, E. Sterken.

Associate fellows:

H. von Eije, R. Koning, R. van der Meer, A. Plantinga.

PhD candidates:

H. Bo, L. Chen, A. Elbourne, E. Leertouwer, P. Maier, R. van der Molen, E. Nijssse, C. Oosterhof, L. Toolsema-Veldman, A. Hua Wang.

3.6 Theme F: Interactions between consumers and firms

Coordinator: P. Kooreman

While the firm is the central entity in SOM's research themes, it is of crucial importance in any analysis related to firms to understand the incentives and the behaviour of all individual actors involved. In the end, it is the behaviour of these individuals and their mutual interactions that define the more abstract concept of "firm behaviour". The actors involved in firm behaviour include owners, shareholders, managers, employees, and consumers. The interaction between consumer behaviour and the behaviour of firms is the central topic in this theme.

The current research in this area includes:

- Eliciting consumer preferences, in particular by means of (conjoint) choice experiments.
- Bounded consumer rationality (labelling effects of different income components, time inconsistent behaviour) and social interactions (peer group and reference group effects)
- Optimal firm response to consumers and rivals (temporary price cuts, degree and channels of advertising)
- Market structure and concentration (banking, internet access, tobacco, cars)

Fellows:

P. Bekker, U. Böckenholt, M. Haan, J. Hoekstra, E. Huizingh, P. Kooreman, P. Leeflang, L. Schoonbeek, T. Wansbeek, M. Wedel, D. Wittink.

interaction between consumer behaviour and the behaviour of firms

Associate fellows:

R. Koning, E. Meijer, P. Otter.

PhD candidates:

B. Boon, A. van Dijk, P. Ebbes, J. Gonçalves Dias, E. Hoppen, C. Horváth,
M. Kornelis, E. Leertouwer, Z. Sándor, A. Soetevent, K. Vlagsma-
Brangule, J. Woltman Elpers.

4 The graduate school and PhD education

4.1 Survey

most PhD students quite satisfied with their supervisors

annual monitoring intensified

In 2000 the SOM bureau organised a survey under PhD students. In general, most PhD students were quite satisfied with their supervisors (average of almost 4 on a scale from 1 to 5). As regards the below-three scores (on three of the seventeen questions only) initiatives have been taken to improve matters. For instance, the annual monitoring of the individual PhD project progress has been intensified. The governing board of SOM has discussed ways to further improve the involvement of PhD candidates with SOM policies. The board invites a representative from the PhD committee to attend its meetings as an advisor to the board.

4.2 Introductory courses and essay competition

The SOM introductory course, in which the coordinators of the various SOM research groups introduce the research activities of their themes, was organised following the successful format of the 1999 Introductory Course.

Essay Competition

unique item in the SOM PhD programme

The Essay Competition, in which pairs of PhD candidates from different themes write an essay on a practical or methodological problem bridging or embracing their respective themes, is a unique item in the SOM PhD programme which no other Research School can claim. The reception of the best papers of the preceding years at conferences and in international journals is a sufficient justification for maintaining this item.

The usefulness of the essay competition may be illustrated by the fact that Philipp Maier and Erik Leertouwer have won the Wicksell Price at the Conference of the European Public Choice Society, which took place from 26 to 30 April 2000 in Sienna (Italy). Their paper is titled: Who creates political business cycles (Should central bankers be blamed?). The first version of it was written as their contribution to the SOM Essay competition 1999. The Wicksell price is awarded to the best paper of the conference, written by an author younger than 30 years. The paper will be published in the *European Journal of Political Economy*. In 2000 the revised version of the SOM Essay Competition Paper by Bjørn Volkerink and Bert Smid (co-authored by Erik Dietzenbacher) has been published in the *International Journal of Industrial Organization*.

In the 2000 Essay competition 8 essays were submitted to the jury. Members of the jury were: Peter Groote (FRW), Rob Vossen (FBK), Elmer Sterken (FEW), Jakob de Haan (SOM), and Evert Schoorl (secretary).

The jury was struck by the variety of the essays, with respect to the subjects chosen as well as to the various manners of elaboration: from a sketchy four page text to a twenty-two page paper (25 including the references), and ranging from methodological and epistemological observations to theoretical as well as empirical work. Two of the contributions were real essays, five looked more like papers and the eighth met neither standard. The jury was glad to note that most of the papers did clearly meet the competition's primary objective of interdisciplinarity.

The jury unanimously found that two essays came out well ahead of the rest: Ebbes/ten Kleij and Drijver/Soetevent. Of these two, the essay (or paper) of Sibrand Drijver and Adriaan Soetevent was found to be more balanced and more clearly interdisciplinary than the other one: they are the winners of the 2000 Essay Competition.

From the jury report we quote:

Peter Ebbes & Frederieke ten Kleij, *Modeling uncertainty in market simulations*

This is a nice though unbalanced paper: a textbook treatment of Bayesian inference should not be included in a SOM Essay. On the other hand it certainly is a nice example of the quantitative Groningen approach in marketing - for this reason the subject will not appeal to every reader as truly interdisciplinary. The authors should be critical in what to include and what to weed out in a second version.

Sibrand Drijver & Adriaan Soetevent, *One-sided underreaction in stock prices*
An excellent, truly interdisciplinary and well written paper. The authors have successfully integrated their findings, although the integration of the theory and the data could be improved. Especially if the table of results has been elaborated a little, this paper is worthy of conference presentation or journal submission.

4.3 SOM PhD conference

The annual SOM PhD conference was held on January 12 in the stylish surroundings of the FREIA building. Only one of the forty PhD candidates who presented their work in progress had fallen victim to the flu epidemic. Furthermore, the programme included two plenary lectures by Arjen van Witteloostuijn and Arndt Sorge, who unfolded slightly different views on the anorexia fashion among large companies, but were quite

jury was struck by the variety of the essays

two essays came out well ahead of the rest

forty PhD candidates presented their work

unanimous in their sarcastic opinions about management consultants. But of course the leading actors of the day were the PhD candidates. Quite an effort had been invested in letting people register for the day, and there was a remarkable congruency between the number of people who had signed up and did indeed show up. There were more than a hundred people for lunch, and only a few less for the buffet dinner.

4.4 PhD candidates

initiatives to improve the situation

For some time it has been very difficult to attract PhD students. Various initiatives have been taken to improve the situation. Firstly, the faculty of Economics has started the so-called 'honours traject' for students who are interested in research. The idea is that good students participate in the research project of a SOM fellow, for which credit points are earned, and design an individual educational program containing courses at first year NAKE level. In 2000 7 new students entered this program. Similarly, the faculty of Management and Organisation has started a course for students with potential, to stimulate the interest in doing PhD-research. Secondly, the faculty of Management and Organisation has appointed a number of so-called docent-promovendi. They have a five year contract and during this period they have to write a thesis and do some teaching as well. Their salary is above the average PhD income. Thirdly, by advertising internationally an increasing number of foreign PhD students were appointed. As a consequence, there were hardly any vacancies at the end of 2000.

4.5 SOM PhD theses

Faculty of Management and Organisation

Cox-Woudstra, E., Sociotechnische besturing systematisch bekeken, Sociotechnische verandering en besturing vanuit systeemtheoretisch perspectief, Promotores: A.H. van der Zwaan, H. van de Water, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Klos, T., Agent-based computational transaction cost economics, Promotores: B. Nooteboom, R.J.J.M. Jorna, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Vaart, J.T. van der, Externe logistieke coördinatie: een studie naar de logistieke relaties tussen afnemers en leveranciers, Promotor: J. Wijngaard Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Faculty of Economics

Hoen, A.R., An input-output analysis of European integration, Promotores: J. Oosterhaven, H.W.A. Dietzenbacher, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Jansen, E.P., Use, needs and determinants of performance information. Case studies in local social services departments, Promotores: G.J. van Helden, C.G.M. Sterks, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Lubberink, M.J.P., Financial statement information demand from investors and managers, Promotor: D.W. Feenstra, Rijksuniversiteit Groningen

Maatman, A.J., Si le fleuve se tord, que le crocodile se torde, Une analyse des systèmes agraires de la région Nord-Ouest du Burkina Faso à l'aide des modèles de programmation mathématique, Promotores: C. Schweigman, H.A. Luning, Rijksuniversiteit Groningen, Centre for Development Studies, Groningen

Tassenaar, P.G., Het verloren Arcadië. De biologische levensstandaard in Drenthe, 1815-1860, Promotor: R.R. Fremdling, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Thissen, M.J.P.M., Building financial CGE models: data, parameters, and the role of expectations, a financial CGE model for Egypt, Promotores: H. de Haan, B.W. Lensink, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Tijssen, G.A., Theoretical and practical aspects of linear optimization, Promotor: W.K. Klein Haneveld, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Yao, Y., Modeling interest rates, foreign exchange rates and stock prices: an integrated approach to modeling, valuation and financial risk management, Promotor: E. Sterken, Rijksuniversiteit Groningen, Labyrint Publication, Capelle a/d IJssel

Faculty of Spatial Sciences

Bentink, J., Unruly urbanisation on Delhi's fringe: changing patterns of land use and livelihood, Promotor: P.H. Pellenbarg, Rijksuniversiteit Groningen

Liang, Z., The Coale-McNeil model; theory, generalisation and application, Promotores: F.J. Willekens, A.G.M. Steerneman, Zeng Yi, Rijksuniversiteit Groningen, Thela Thesis, Amsterdam

Medina, S., Human resources and population in Mexico at the dawn of the twenty-first century, Promotor: F.J. Willekens, Rijksuniversiteit Groningen, Thela Thesis, Amsterdam

Mills, M., The transformation of partnerships; Canada, the Netherlands, and the Russian Federation in the age of modernity, Promotor: F.J. Willekens, Rijksuniversiteit Groningen, Thela Thesis, Amsterdam

Padmadas, S.S., Intergenerational transmission of health: reproductive health of mother and child survival in Kerala, India, Promotores: F.J. Willekens, P.S. Nair, I. Hutter, Rijksuniversiteit Groningen, Thela Thesis, Amsterdam.

5 Other activities

5.1 Information dissemination

SOM has its own newsletter, which was published 8 times in 2000. It contains practical information about seminars and other activities, conferences, vacancies and publications. Besides that there are several human interest items, for instance the diary of one of SOM's researchers, a contribution by one of SOM's alumni and travel reports. The newsletter has an edition of over 700 and is sent to all personnel of the SOM faculties, the alumni, the advisory board and other research schools in Groningen and the Netherlands.

**newsletter published
8 times**

5.2 Research reports

The SOM research report series serves two objectives. First, it provides researchers the possibility to disseminate the first results of their research. Second, it offers less experienced researchers an outlet. As submitted manuscripts are commented upon by SOM fellows before the scientific director decides upon publication, SOM also strives to increase the quality of the papers. The 63 reports are listed in Appendix 3. They are sent to interested libraries and universities all over the world and can also be downloaded via the SOM homepage at som.rug.nl.

**disseminate first
results
offers an outlet**

63 reports

5.3 Seminars, workshops and conferences

The seminar series of theme C continued to be one of the most successful, but initiatives have been taken to improve the seminar series of other themes. At the end of 2000 new coordinators among SOM PhD candidates and postdocs were found and new series will start in the spring of 2001, with – next to the usual seminars – a focus on one-day workshops. Appendix 4 contains an overview of the seminars with external speakers.

In 2000 SOM organised three conferences.

three conferences

History of economic thought conference

The (British) History of Economic Thought Conference is the oldest of its kind, with a tradition of 35 years. Only twice it crossed the Channel, and both times Groningen was the venue. The format of the conference

is unique: 45 minute presentations, 30 minute discussions, no parallel sessions. There is never a central topic, the programme ranges 'from Aristotle to the present'. This year SOM hosted and subsidised the conference. Its reputation is a guarantee for regular attendance by old hands in the profession who keep on writing after retirement such as Mark Blaug, Bob Coats and Walter Eltis, as well as a fair number of British tenured participants plus the usual Japanese delegation. This year they were joined by a number of continentals and a few Groningen participants.

One of the papers was presented by SOM Advisory Board member David Laidler (W. Ontario), who slipped away from his concern with contemporary monetary problems to the subject of the Bullionist Controversy. As insiders know, it is always a pleasure to listen to David whatever his subject is and this paper was no exception to that rule.

Other pre-twentieth century subjects were discussed by Sandrine Leloup (Paris I), who presented her PhD research on Jeremy Bentham, and Evert Schoorl (Groningen) who presented his paper on the Ruskin & Morris reception in the Netherlands as an after-dinner causerie with slide pictures. Gulbahar Tezel Pot (Rotterdam) read a methodological paper on Marshall. A more general question was tackled by Sheila Dow (Stirling): The importance of history for economics.

Albert Jolink's (Rotterdam) paper discussed the proto-Keynesianism of the NBER and of American public works policies in the twenties and thirties. Mauro Boianovsky (Brasilia) focused on the views of Champernowne and Joan Robinson on full employment. Gary Mongiovi (St John's NY) presented a most interesting view on the relationship and possible influence between Sraffa and Wittgenstein. The most recent subject discussed was Ivo Maes' (Central Bank of Belgium) paper on economic thought and the making of the European Economic Community.

Conference on financial structure, bank behaviour and monetary policy in the EMU

In October 2000 this conference was organized by Robert Lensink and Elmer Sterken (Theme E). 15 papers were presented in various fields. A summary of the main research questions runs as follows. Are credit channel models useful for analyzing the monetary transmission mechanism in the EMU countries? How relevant are monetary policy indicators? How comparable are the financial structures in the EMU countries? Are firms or households in the EMU countries bank dependent? What is the importance of credit view models versus money view models for monetary transmission in the EMU countries. To what extent is the European Central Bank able to control the availability of bank credit? How is competition in the banking industry in the EMU countries? Do banks play an important role in corporate governance of the EMU countries? A selec-

tion of the papers will be published in a special issue of the *Journal of Banking and Finance*.

Conference on the monopolistic competition revolution after twenty-five years

On October 30–31, 2000 a SOM theme C workshop on The monopolistic competition revolution after twenty-five years was organised by SOM fellows Steven Brakman and Ben Heijdra. The theme of the workshop was the fundamental developments that have occurred in macroeconomics, trade theory, growth theory and the new economic geography. To a large extent this revolution was inspired by the *American Economic Review* article by Joseph Stiglitz and Avinash Dixit that appeared in 1977.

The workshop included presentations by Avinash Dixit, Wilfred Ethier, Russell Cooper and Peter Neary. Generous grants were received from the Ministry of Economic Affairs, the Dutch Central Bank, the Department of Applied Economics (University of Nijmegen) and the Groningen University Fund. The papers will be published in a book by a major publisher.

Appendix 1

Fellows and associate fellows and their publications

This appendix provides a list of fellows and associate fellows per theme and two of their international publications in 2000.

Theme A

Fellows

Benders, J. (Nijmegen Business School)

Benders, J., Bijsterveld, M., Leaning on lean: the reception of a management fashion in Germany, *New Technology, work and employment*, 15, 1, pp. 50-64.

Benders, J., Hootegeem, G. van, How the Japanese got teams, in: Procter, S., Mueller F. (eds.), *Teamworking*, London, Macmillan, pp. 43-59.

Dankbaar, B. (Nijmegen Business School)

Dankbaar, B., Innovation management in SMEs. Research in Belgium and the Netherlands, in: Goverde, H. (ed.), *Global and European Polity? Organizations, policies, contexts*, Aldershot, Ashgate, pp. 171-186.

Dankbaar, B., Cobbenhagen, J., In search of a regional innovation strategy for Flanders, in: Boekema, F., Margan, K., Bakkers S., Rutten R. (eds.), *Knowledge, innovation and economic growth. The theory and practice of learning regions*, Cheltenham, Edward Elgar, pp. 115-134.

Gaalman, G. (Faculty of Management and Organisation)

Gaalman, G.J.C., Suresh, N., Performance evaluation of cellular layouts: extensions to DRC systems context, *International Journal of Production Research*, 38, 15, pp. 4393-4402.

Oosterman, B.J., Land, M.J., Gaalman, G.J.C., The influence of shop characteristics on workload control, *International Journal of Production Economics*, 68, 1, pp. 107-119.

Van Helden, J. (Faculty of Economics)

Bogt, H.J. ter, Helden, G.J. van, Accounting change in Dutch government, exploring the gap between expectations and realizations, *Management Accounting Research*, 11, 2, pp.263-279.

Helden, G.J. van, Is financial stress an incentive for the adoption of businesslike planning and control in local government? A comparative study of eight Dutch municipalities, *Financial Accountability and Management*, 16, 1, pp. 83-100.

Hendriks, P. (Nijmegen Business School)

Hendriks, P.H.J., An organizational learning perspective on GIS, *International Journal of Geographical Information Science*, 14, 4, pp. 373-396.

Hendriks, P.H.J., Vriens, D.J., From geographical information systems to spatial group decision support systems; a complex itinerary, *Geographical and Environmental Modelling*, 4, 1, pp. 87-108.

Mobach, M. (Faculty of Management and Organisation)

Mobach, M.P., Rogier, J.J.H., Leeuw, A.C.J. de, A new perspective on fit and the systems theory of control, in: Glanville, R., Zeeuw, A. de (eds.), *Problems of action and observation*, Systemica, Southsea (UK), pp. 251-265.

Molleman, E. (Faculty of Management and Organisation)

Molleman, E., Broekhuis, M., The modalities of self-management: the 'must', 'may', 'can' and 'will' of local decision making, *International Journal of Operations & Production Management*, 20, pp. 889-910.

Nijssen, E. (Nijmegen Business School)

Nijssen, E.J., Frambach, R.T., Determinants of the adoption of new product development tools by industrial firms, *Industrial Marketing Management*, 29, 2, pp. 121-131.

Sidu, J.S., Nijssen, E.J., Commandeur, H.R., Business domain definition practice: Does it affect organisational performance?, *Long range planning*, 33, 3, pp. 376-401.

Scapens, R. (Faculty of Management and Organisation)

Scapens, R.W., Burns, J., Conceptualising management accounting change: an institutional framework, *European Accounting Review*, 10, 1, pp. 3-25.

Scapens, R.W., Angluin, D., Transparency, accounting knowledge and perceived fairness in UK universities. Resource allocation: results from a survey of accounting and finance, *British Accounting Review*, 32, 1, pp. 1-42.

Sierksma, G. (Faculty of Economics)

Sierksma, G., Wanders, H.L.T., The manufacturing of heavy weight cardboard, *International Journal of Production Economics*, 65, pp. 295-303.

Sierksma, G., Teunter, R.H., Partial monotonicizations of Hamiltonian cycle polytopes: dimensions and diameters, *Discrete Applied Mathematics*, 105, pp. 173-182.

Sorge, A. (Faculty of Management and Organisation)

Sorge, A., Special issue on twentieth birthday and millenium crackers, *Organization Studies*, 21, 0.

Sorge, A., Gesellschaftliche Effekte bei der Globalisierung von Handlungshorizonten in Europa, *Kölnener Zeitschrift für Soziologie und Sozialpsychologie*, 40, pp. 1-26.

Water, H. van de (Faculty of Management and Organisation)

Water, H. van de, A maintenance model for quality management, *International Journal of Quality and Reliability Management*, 17, 7, pp. 756-769.

Wijngaard, J. (Faculty of Management and Organisation)

Wijngaard, J., Stidham Jr., S., Forward recursion for Markov decision processes with skip-free-to-the-right transitions. Part II: Non-standard applications, *Statistica Neerlandica*, 54, 2, pp. 160-174.

Zhang, Z.H., Waszink, A.C., Wijngaard, J., An instrument for measuring TQM implementation for Chinese manufacturing companies, *International Journal of Quality and Reliability Management*, 17, 7, pp. 730-755.

Witteloostuijn, A. van (Faculty of Economics)

Witteloostuijn, A. van, Special issue: Organizational Ecology, *Organization Studies*, 21, pp. 325-462.

Witteloostuijn, A. van, Organizational ecology has a bright future, *Organization Studies*, 21, pp. v-xiv

Zwaan, A. van der (Faculty of Management and Organisation)

Zwaan, A.H. van der, Vries, J. de, A critical assessment of the modern sociotechnical approach within production and operations management, *International Journal of Production Research*, 38, 8, pp. 1755-1767.

Associate Fellows

Benschop, Y. (Nijmegen Business School)

Benschop, Y., Eyckmans, S., Roost, H. van, M. Verloo, Flanders: 'Gender in BALANCE': an action research to integrate gender in the personnel policy of the Flemish government administration, in: Nelen, S., Hondeghem, A. (eds.), *Equality oriented personnel policy in the public sector*, IOS Press, Amsterdam/Oxford, pp. 63-73.

Bogt, H. ter (Faculty of Economics)

Bogt, H.J. ter, Helden, G.J. van, Accounting change in Dutch government, exploring the gap between expectations and realizations, *Management Accounting Research*, 11, 2, pp.263-279.

Brock, E. de (Faculty of Management and Organisation)

Brock, E.O. de, A general treatment of dynamic integrity constraints, *Data and Knowledge Engineering*, 32, 3, pp. 223-246.

Brock, E.O. de, Declarative specifications of complex transactions, with an application to cascading deletes, in: G. Saake, K. Schwarz, C. Türker (eds.), *Postproceedings of the TDD'99 Conference*, LNCS 1773, Springer-Verlag Berlin, Heidelberg, pp. 150-166.

Doorewaard, J. (Nijmegen Business School)

Doorewaard, J., Meihuizen, H.E., Strategic options on professional service organizations, *Human Resource Management Journal*, 10, 2, pp. 45-57.

Benders, J., Doorwaard, H., Poutsma, E., Modern Sociotechnology: Set by De Sitter, in: M.M. Beyerlein (ed.), *Work teams: past, present and future*, Boston, Kluwer Academic Publishers, pp. 169-180.

Donk, D.P. van (Faculty of Management and Organisation)

Donk, D.P. van, Customer driven manufacturing in the food processing industry, *British Food Journal*, 102, 10, pp. 739-747.

Emans, B. (Faculty of Management and Organisation)

Emans, B.J.M., Vegt, G. van der, Vliert, E. van de, The interplay of task and outcome interdependence in generating work team members' affective response; some new findings, in: Vartiainen, M., Avalloni, F., Anderson N. (eds.), *Innovative theories, tools and practices in W&O psychology*, Hogrefe, Seattle/Toronto/Göttingen/Bern, pp. 111-124.

Vegt, G. van der, Emans, B.J.M., Vliert, E. van de, Team members' affective responses to patterns of intragroup interdependence and job complexity, *Journal of Management*, 26, 4, pp. 633-655.

Hootegem, P. van (Nijmegen Business School)

Benders, J., Hootegem, G. van, How the Japanese got teams, in: Procter, S., Mueller, F. (eds.), *Teamworking*, London, Macmillan, pp. 43-59.

Karsten, L. (Faculty of Management and Organisation)

Blair, A., Leopold, J., Karsten, L., Working time: an Anglo-Dutch comparison, *European Industrial Relations Review*, 312, pp. 17-20.

Martens, W. (Nijmegen Business School)

Martens, W.P.M., Die nationale Gesellschaft and die lateralen Weltsysteme, *Ethik und Sozialwissenschaften*, 11, 2, pp. 258-261.

Martens, W.P.M., Gegenstände und Eigenschaften. Vom Nutzen einer einfachen philosophischen Untersuchung, in: Merz-Benz, P.U., Wagner, G. (eds.), *Die Logik der Systeme. Zur Kritik der system-theoretischen Soziologie* Niklas Luhmans, UVK, Konstanz, pp. 257-304.

Nauta, A. (Faculty of Management and Organisation)

Buunk, B.P., Nauta, A., Why intraindividual needs are not enough: human motivation is primarily social, *Psychological Inquiry*, 11, 2, pp. 279-283.

Nauta, A., Sanders, K., Interdepartmental negotiation behavior in manufacturing organizations, *International Journal of Conflict Management*, 11, 2, pp. 135-161.

Poutsma, F. (Nijmegen Business School)

Benders, J., Doorewaard, H., Poutsma, A., Modern sociotechnology: set by De Sitter, in: Beyerlein M.M. (ed.), *Work teams: Past, present and future*, Kluwer Academic Publishers, Boston, pp. 169-180.

Poutsma, F., Huijgen, F., Diversity of participation in Europe, in: Goverde H. (ed.), *Global and European polity?*, Aldershot, Ashgate, pp. 155-170.

Teelken, J. (Nijmegen Business School)

Teelken, J.C., Market forces in education, a comparative perspective in England and Scotland, *Scottish Education Review*, 32, 1, pp. 21-32.

Bosch, H. van den, Teelken, J.C., Organisation and leadership in higher education, learning from experiences in the Netherlands, *Higher Education Policy*, 13, 4, pp. 379-398.

Vriens, D. (Nijmegen Business School)

Hendriks, P.H.J., Vriens, D.J., From geographical information systems to spatial group decision support systems; a complex itinerary, *Geographical and Environmental Modelling*, 4, 1, pp. 87-108.

Vriens, D.J., Hendriks, P.H.J., Viability through web-enabled technologies, in: Khosrowpour, M. (ed.), *Managing web-enabled technologies in organizations: A global perspective*, Idea Group Publishing, Hershey, pp. 122-145.

Witte, M. de (Faculty of Management and Organisation)

Witte, M.C. de, Steijn, B., Automation, job content, and underemployment, work, *Employment & Society*, 14, 2, pp. 245-264.

Schouteten, R., Witte, M.C. de, The quality of work: the work-family interface, in: Isaksson, K. (e.a.) (ed.), *Health effects of the new-labour*, Kluwer Academic Publishers, Dordrecht/Boston/ London, pp. 267-288.

Zee, D.J. van der (Faculty of Management and Organisation)

Zee, D.J. van der, Look-ahead strategies for controlling batch operations in industry – overview, comparison and exploration, in: Joines, J., Barton, R. (eds.), *Proceedings of the 2000 winter simulation conference*, IEEE, Piscataway, pp. 1364-1373.

Theme B

Fellows

Ark, B. van (Faculty of Economics)

Ark, B. van, Measuring productivity in the 'New Economy': towards a European perspective, *De Economist*, 148, 1, pp. 87-105.

Ark, B. van, Haan, J. de, The delta-model revisited, recent trends in the structural performance of the Dutch economy, *International Review of Applied Economics*, 14, 13, pp. 307-321.

Broersma, L. (Faculty of Economics)

Broersma, L., Butter, F.A.G. den, Kock, U., A national accounting system for labour market flows, *Economic Letters*, 67, pp. 331-336.

Broersma, L., Koeman, J., Teulings, C., Labor supply, the natural rate, and the welfare state in the Netherlands: the wrong institutions at the wrong point in time, *Oxford Economic Papers*, 52, 1, pp. 96-118.

Buckley, P. (Faculty of Management and Organisation)

Buckley, P.J., Carter, M.J., Knowledge management in global technology markets: applying theory to practice, *Long Range Planning*, pp. 55-71.

Buckley, P.J., Clegg, L.J., Forsans, N., Reilly, K.T., The evolution on the FDI in the United States in the context of trade liberalisation and regionalisation, *Journal of Business Research*.

Dietzenbacher, E. (Faculty of Economics)

Dietzenbacher, H.W.A., Smid, B., Volkerink, B., Horizontal integration in the Dutch financial sector, In: *International Journal of Industrial Organization*, 18, nr. 8, pp. 1223-1242.

Dietzenbacher, H.W.A., Spillovers of innovation effects, In: *Journal of Policy Modeling*, 22, nr. 1, pp. 27-42.

Ghauri, P. (*Faculty of Management and Organisation*)
Harris, S., Ghauri, P.N., Strategy formation by
business leaders: exploring the influence of
national values, *European Journal of Marketing*,
34, 1-2, pp. 126-142.

Hyder, A., Ghauri, P.N., Managing international
joint venture relationships: a longitudinal per-
spective, *Industrial Marketing Management*, 29, 3,
pp. 205-218.

Leeflang, P. (*Faculty of Economics*)
Heerde, H.J. van, Leeflang, P.S.H., Wittink, D.R.,
The estimation of pre- and postpromotion dips
with store-level scanner data, *Journal of*
Marketing Research, 37, pp. 383-395.

Leeflang, P.S.H., Wittink, D.R., Building models
for marketing decisions: past present and future,
International Journal of Research in Marketing,
17, pp. 105-156.

Maignan, I. (*Faculty of Management and Organisa-
tion*)

Maignan, I.S.J., Ferrell, O.C., Measuring corporate
citizenship in two countries: the case of the
United States and France, *Journal of Business*
Ethics, 23, pp. 283-297.

Cornwell, T.B., Relyea, G.E., Irwin, R.L.,
Maignan, I.S.J., Understanding long-term effects
of sports sponsorship: role of experience, involve-
ment, enthusiasm and clutter, *International*
Journal of Sports Marketing and Sponsorship, 2,
2, 127-144.

Péli, G. (*Faculty of Economics*)
Péli, G., Pólos, L., Hannan, M.T., Back to inertia:
theoretical implications of alternative styles of
logical formalization, *Sociological Theory*, 18, 2,
pp. 193-213.

Vossen, R., (*Faculty of Management and*
Organisation)

Nooteboom, B., Jong, G. de, Vossen, R.W.,

Helper, S., Sako, M., Network interactions and
mutual dependence: hypotheses and a test in the
car industry, *Industry and Innovation*, 7, 1, pp.
117-144.

Associate fellows

Gemser, G. (*Faculty of Management and Organisa-
tion*)

Wijnberg, N.M., Gemser, G., Adding value to
innovation: impressions and the transformation of
the selection system in visual arts, *Organization*
Science, 11, 3, pp. 323-329.

Jager, W. (*Faculty of Management and Organisation*)
Janssen, M.A., Jager, W., The human actor in eco-
logical-economic models, *Ecological Economics*,
35, pp. 307-310.

Jager, W., Janssen, M.A., Vries, H.J.M. de, Greef, J.
de, Vlek, C.A.J., Behaviour in common dilemmas:
homo-economicus and homo psychologicus in
an ecological-economic model, *Ecological*
Economics, 35, pp. 357-380.

Los, B. (*Faculty of Economics*)

Dietzenbacher, H.W.A., Los, B., Structural
decomposition analyses with dependent determi-
nants, *Economic Systems Research*, 12, pp. 497-
514.

Dietzenbacher, H.W.A., Hoen, A.R., Los, B.,
Labour productivity in Western Europe 1975-
1985, *Journal of Regional Science*, 40, 3, pp. 425-
452.

Lutz, C. (*Faculty of Management and Organisation*)
Kuiper, W.E., Lutz, C.H.M., Tilburg, A. van,
Vertical price leadership within marketing chan-
nels of local maize markets in Benin: a cointegra-
tion study, in: Tilburg, A. van, Moll, H.A.J.,
Kuyvenhoven, A. (eds.), *Agricultural markets*
beyond liberalization, Kluwer Academic
Publishers, Dordrecht/Boston/London, pp. 159-
173.

Timmer, M. (Faculty of Economics)

Timmer, M.P., Szirmai, A.E., Productivity growth in Asian manufacturing: the structural bonus hypothesis re-examined, *Structural Change and Economic Dynamics*, 11, 4, pp. 371-391.

Theme C

Fellows

Ark, B. van (Faculty of Economics)

Ark, B. van, Measuring productivity in the 'New Economy': towards a European perspective, *De Economist*, 148, 1, pp. 87-105.

Ark, B. van, Haan, J. de, The delta-model revisited, recent trends in the structural performance of the Dutch economy, *International Review of Applied Economics*, 14, 13, pp. 307-321.

Brakman, S. (Faculty of Economics)

Brakman, S., Garretsen, H., Marrewijk, C. van, *International trade and agglomeration*, Cambridge University Press, Cambridge.

Broersma, L. (Faculty of Economics)

Broersma, L., Butter, F.A.G. den, Kock, U., A national accounting system for labour market flows, *Economic Letters*, 67, pp. 331-336.

Broersma, L., Koeman, J., Teulings, C., Labor supply, the natural rate, and the welfare state in the Netherlands: the wrong institutions at the wrong point in time, *Oxford Economic Papers – New Series*, pp. 96-118.

Delsen, L. (Nijmegen Business School)

Delsen, L., Hutsebaut, M., Reissert, B., De la retraite anticipée à la retraite progressive dans l'union européenne, in: Boulin, J.Y., Hoffmann, R. (eds.), *Les nouvelles pistes du temps de travail*, Editions Liaisons, Paris.

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Dietzenbacher, E. (Faculty of Economics)

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Fremdling, R. (Faculty of Economics)

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Fremdling, R.R., The Dutch transportation system in the nineteenth century, *De Economist*, 148, pp. 521-537.

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Haan, J. de (Faculty of Economics)

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Heijdra, B. (Faculty of Economics)

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Jepma, C. (Faculty of Economics)

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Oosterhaven, J. (Faculty of Economics)

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Serrano Martinez, L. (Faculty of Economics)

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Sturm, J.E. (Faculty of Economics)

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Zhang, Z. (Faculty of Economics)

Zhang, Z.X., Can China afford to commit itself an emissions cap?, An economic and political analysis, In: *Energy Economics*, 22, nr. 6, pp. 587-614

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Kam, F. de (Faculty of Economics)

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Los, B. (Faculty of Economics)

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Timmer, M. (Faculty of Economics)

Timmer, M.P., Szirmai, A.E., Productivity growth in Asian manufacturing: the structural bonus hypothesis re-examined, *Structural Change and Economic Dynamics*, 11, 4, pp. 371-391.

Vaal, A. de (Nijmegen Business School)

Vaal, A. de, Are you being served? A general-equilibrium analysis of flexibility in production, *Journal of Economics*, 72, 1, pp. 19-43.

Theme D

Fellows

Dijk, J. van (Faculty of Spatial Sciences)

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Dijk, J. van, Pellenburg, P.H., Firm relocation decisions in the Netherlands: an ordered logit approach, *Papers on Regional Science*, 79, 2, pp. 191-219.

Immink, T. (Faculty of Spatial Sciences)

Braaksma, B.L.J. Faber, B.F., Immink, G.K., Summation of formal solutions of a class of linear difference equations, *Pacific Journal of Mathematics*, 195, 1, pp. 35-65.

Nusse, L. (Faculty of Spatial Sciences)

Nusse, H.E., Yorke, J.A., Fractal basin boundaries generated by basin cells and the geometry of mixing chaotic flows, *Physical Review Letters*, 84, pp. 626-629.

Pellenburg, P. (Faculty of Spatial Sciences)

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Dijk, J. van, Pellenburg, P.H., Firm relocation decisions in the Netherlands: an ordered logit approach, *Papers on Regional Science*, 79, 2, pp. 191-219.

Scherbov, S., (Faculty of Spatial Sciences)

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Wissen, L. van (Faculty of Spatial Sciences)

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Associate fellows

Groote, P. (Faculty of Spatial Sciences)

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Padmadas, S. (Faculty of Spatial Sciences)

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Rao Sahib, P. (Faculty of Spatial Sciences)

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Theme E

Fellows

Benninga, S. (Faculty of Economics)

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Haan, J. de (Faculty of Economics)

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Hermes, N. (Faculty of Management and Organisation)

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Jiang, G. (Faculty of Economics)

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Lensink, R. (Faculty of Economics)

Lensink, B.W., Hermes, C.L.M., Murinde, V., Capital flight and political risk, *Journal of International Money and Finance*, 19, 1, 2000, pp. 73-92.

Soest, D.P. van, Lensink, B.W., Foreign transfers and tropical deforestation: what terms of conditionality, *American Journal of Agricultural Economics*, 82, pp. 389-399.

Schoonbeek, L. (Faculty of Economics)

Toolsema-Veldman, L.A., Schoonbeek, L., On the effects of an industry-wide cost change in a Stackelberg duopoly, *Jahrbücher für nationalökonomie und Statistik*, 26, 1, pp. 592-598.

Sterken, E. (Faculty of Economics)

Lensink, B.W., Sterken, E., Capital market imperfections, uncertainty and corporate investment in the Czech Republic, *Economics and Planning*, 33, pp. 53-70.

Lensink, B.W., Sterken E., Asymmetric information, irreversible investment and the optimal level of investment, *Journal of Public Economics*, 79, 2, pp. 365-374.

Scholtens, B. (Faculty of Economics)

Scholtens, L.J.R., Financial regulation and financial system architecture in Central Europe, *Journal of Banking and Finance*, 24, 2, pp. 525-553.

Scholtens, L.J.R., Wensveen, D.M.N. van, A critique on the theory of financial intermediation, *Journal of Banking and Finance*, 24, 8, pp. 1243-1251.

Associate fellows

Koning, R. (Faculty of Economics)

Koning, R.H., Balance in competition in Dutch soccer, *The Statistician*, 49, 3, pp. 419-431.

Koning, R.H., Ridder, G., Utility maximization and mode of payment, in: Heijmans, R.D.H., Pollock, D.S.G., Satorra, A. (eds.) *Innovations in Multivariate Statistical Analysis*, Kluwer Academic Publishers, Dordrecht, Boston, London, pp. 117-136.

Theme F

Fellows

Bekker, P. (Faculty of Economics)

Bekker, P.A., Wansbeek, T.J., Matrix inequality applications in econometrics, in: Heijmans, R.D.H., Pollock, D.S.G., Satorra, A. (eds.) *Innovations in multivariate statistical analysis*, Kluwer Academic Publishers, Dordrecht, Boston, London.

Böckenholt, U. (Faculty of Economics)

Böckenholt, U., Dillon, W.R., Inferring latent brand dependencies, *Journal of Marketing Research*, 37, pp. 72-87.

Kim, J.S., Böckenholt, U., Modeling stage-sequential change in ordered categorical responses, *Psychological Methods*, 5, pp. 380-400.

Hoekstra, J. (Faculty of Economics)

Verhoef, P.C., Hoekstra, J.C., Aalst, M. van, The effectiveness of direct response radio commercials, results of a field experiment in the Netherlands, *European Journal of Marketing*, 34, 1-2, pp. 143-155.

Wulf, K. de, Hoekstra, J.C., Commandeur, H.R., The opening and reading behavior of business-to-business direct mail, *Industrial Marketing Management*, 29, pp. 133-145.

Huizingh, E. (Faculty of Economics)

Huizingh, K.R.E., The content and design of web sites: an empirical study, *Information and Management*, 37, 3, pp. 123-134.

Hoekstra, J.C., Huizingh, K.R.E., The interaction data framework: measuring the suitability of the customer database for relation strategies, *Journal of Database Marketing*, 7, 3, pp. 232-245.

Kooreman, P. (Faculty of Economics)

Kooreman, P., The labeling effect of a child benefit system, *American Economic Review*, 90, 3, pp. 571-583.

Leeflang, P. (Faculty of Economics)

Heerde, H.J. van, Leeflang, P.S.H., Wittink, D.R., The estimation of pre- and postpromotion dips with store-level scanner data, *Journal of Marketing Research*, 37, pp. 383-395.

Leeflang, P.S.H., Wittink, D.R., Building models for marketing decisions: past present and future, *International Journal of Research in Marketing*, 17, pp. 105-156.

Schoonbeek, L. (Faculty of Economics)

Toolema-Veldman, L.A., Schoonbeek, L., On the effects of an industry-wide cost change in a Stackelberg duopoly, *Jahrbücher für nationalökonomie und Statistik*, 26, 1, pp. 592-598.

Wansbeek, T. (Faculty of Economics)

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Wansbeek, T.J., Meijer, E., Measurement error and latent variables in econometrics, *Advanced textbooks in economics* 37, North-Holland, Amsterdam.

Wedel, M. (Faculty of Economics)

Kamakura, W.A., Wedel, M., Factor analysis and missing data, *Journal of Marketing Research*, 37, pp. 490-498.

Wedel, M., Pieters, F.G.M., Eye fixation on advertisements and memory for brands: a model and findings, *Marketing Science*, 19, pp. 297-312

Wittink, D. (Faculty of Economics)

Heerde, H.J. van, Leeflang, P.S.H., Wittink, D.R., The estimation of pre- and postpromotion dips with store-level scanner data, *Journal of Marketing Research*, 37, pp. 383-395.

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Associate fellows

Koning, R. (Faculty of Economics)

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Koning, R.H., Ridder, G., Utility maximization and mode of payment, in: Heijmans, R.D.H., Pollock, D.S.G., Satorra, A. (eds.) *Innovations in Multivariate Statistical Analysis*, Kluwer Academic Publishers, Dordrecht, Boston, London, pp. 117-136.

Meijer, E. (Faculty of Economics)

Meijer, E., Wansbeek, T.J., Measurement error in a single regressor, *Economics Letters*, 69, pp. 277-284.

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Appendix 2 PhD candidates

This appendix provides a list of all PhD candidates at the end of 2000 per theme and the title of their research project. More information can be found at the SOM website: som.rug.nl/

Theme A

Beukel, A. van den: Multifunctionality and team performance: a multi-disciplinary perspective.

Blaauw, G.: Het beheer van cruciale kennis.

Bokhorst, J.: Naar een efficiënte en effectieve inzet van operators en machines in een flexibele geautomatiseerde omgeving.

Bosch-Sytsma, P.: Knowledge development in virtual organisations.

Budihardjo Surijas, A.: Planning and values research project: The values congruence and the planning process.

Drijver, S.: Dynamische ALM optimalisatie met behulp van stochastisch gemengd geheeltallige lineaire programmering.

Gemici, D.: Workload control in frameworks for production planning and control.

Grotenhuis, E.: The impact of cultural (mis)fit on the success of technology acquisitions.

Hellenthal, A.: Banners to the development of self-divided work-teams.

Kibriscikli, B.: Organisational isomorphism, embedded actors and globalisation: the case of banking in Turkey.

Kleij, F. ten: Retrieving knowledge from textual data using external numeric information.

Rheede, A. van: Collective learning in workflow-system supported, process-oriented teams.

Rispens, S.: The influence of organisational characteristics.

Sjarbaini, L.: Dynamics in the context dependency of knowledge: the conversion of knowledge in innovation.

Steen, M. van der: An institutionalist study of management accounting change in the Netherlands.

Talens, E.: Statistical sampling in auditing and accounting.

Wanders, H.: Developing a better planning support system for a solid board factory using cognitive science and operations research techniques.

Welker, G.: Possibilities and impossibilities of formalising order processing.

Xiang, G.: Complexity of Cell Formation Problem.

Yue, H.: The design and development of human factors in team based worksystems: an operations research approach.

Zhang, Z.: Measures for improving product quality in China.

Zoethout, K.: Variety and the requisite of self-organisation.

Zomerdijk, L.: Customers, front office, and back office in service organisations: deviding labour and structuring interfaces in the information era.

Theme B

Ali Hamid, A.: The intercultural adaptation and adjustment of the expatriate's family member and the affect(s) on the expatriate's work performance.

Bakker, E.: Environment, strategy and purchasing; the determinants on the organisation of purchasing.

Campbell, N.: Integration of internet technologies in supply chain management: a cross cultural case study approach.

Cao, X.: Innovation, diversity and competition.

Hummel, M.: The analytic hierarchy process: a group decision-making tool supporting inter-organisational communication in new product development networks.

Kok, R.: The implementation of market oriented product-development.

Oosterman, B.: Finding structures in product development.

Waalkens, J.: Innovation and networks.

Wahyuni Wibisono, S.: Managing international strategic alliances: a development of evolutionary approach.

Welling, D.: Gecoördineerd samenwerken in de bouw.

Wijbenga, E.: Strategy and performance of small and medium-sized Enterprises (SMEs).

Theme C

Cao, X.: Innovation, diversity and competition.

Mulligen, P van: The effect of product quality on international productivity comparisons.

Ruijs, A.: Price formation processes on interrelated, imperfect markets for agricultural products: the case of Burkina Faso.

Sleifer, J.: The structure of the East and West German economies from 1936 to 2000.

Yetkiner, H.: The impact of internationalisation of the economy on productivity and growth.

Zeilstra, A.: Regional labour markets in a cross-country perspective.

Theme D

Bosch, A.: Adolescents' reproductive health in rural Bangladesh: the impact of experiences in childhood.

Brons, L.: The birth rate in the demography of firms: a theoretical and methodology study.

Brouwer, A.: Old firms in the Netherlands.

Draak, M. den: Pregnancy outcomes and child survival in transition.

Haartsen, T.: The countryside: from production to consumption?

Hoogstra, G.: Economische ontwikkelingen in het Noorden.

Jennissen, R.: Economic determinants of international migration in Europe.

Kathan, M.: Contraceptive use dynamic in Bangladesh

Mamun, A.: Compression of morbidity. A multi-state analysis.

Mariotti, I.: Firm migration in Europe.

Muhidin, S.: Regional demographic scenario's for Indonesia.

Pen, C.-J.: The impact of business internal and external factors during the strategic decision making process regarding firm relocations.

Simon, C.: Verstreking en Ontstreking: de dynamiek van toekenning van regionale identiteit.

Sobotka, T.: Socio-economic determinants of period fertility in Europe.

Spijker, J.: Economic determinants of differences in mortality in Europe.

Theme E

Bo, H.: Corporate investment, uncertainty, and capital market imperfections.

Chen, L.: The impact of institutional differences on the capital structure of firms.

Elbourne, A.: Monetary policy in EMU: effects of (changes in) financial structure.

Leertouwer, E.: An analysis of central bank independence using dynamic panel data models.

Maier, P.: The Bundesbank in international perspective.

Molen, R. van der: Industrial group formation and corporate finance: the case of India.

Nijssse, E.: The micro-structure and dynamics of the Brent Crude oil market.

Oosterhof, C.: Corporate risk management in the Netherlands using financial derivatives.

Toolsema-Veldman, L.: Oligopoly models of the banking firm.

Wang, A.: Accounting, business performance and the valuation of firms.

Theme F

Boon, B.: Nonparametric inference in econometrics.

Dijk, A. van: Models for micro marketing.

Ebbes, P.: Modelling non-classical dependencies in mixed generalised linear models.

Gonçalves Dias, J.: Statistical modeling of effects of demographic changes on consumer behaviour for purpose of direct marketing.

Hoppen, E.: Prediction of consumer information search strategies and their effects on consumer behaviour in online markets.

Horváth, C.: A (game) theoretical and empirical analysis of dynamical competitive reaction strategies and consumer response functions; towards an integrated approach.

Knaap, D.: The W.A. Scholtens company, the first modern Dutch multinational (1840-1940).

Kornelis, M.: De werking van reclamemarkten en het leergedrag van adverteerders.

Leertouwer, E.: An analysis of central bank independence using dynamic panel data models.

Sandor, Z.: Instrumental variables and panel data description: A microeconomic analysis of market equilibrium and competition for differentiated products using macro data and micro conjoint choice data.

Soetevent, A.: preferences: behavioural, welfare and policy implications.

Vlagsma-Brangule, K.: Micro-level dynamic analysis of determinants of consumer behaviour towards sustainable use of the environment.

Wijbenga, E.: Strategy and performance of small and medium-sized Enterprises (SMEs).

Woltman Elpers, J.: Measurement and analysis of attention for tv-commercials.

Appendix 3

Research reports 2000

- ooCo1 Ark, H.H., Economic growth and labour productivity in Europe: half a century of East-West Comparison, pp. 50
- ooEo2 Haan, M.A. and Y. Riyanto, The effects of takeover threats on shareholders and firm value, pp. 20
- ooEo3 Lensink, B.W., P.J.M. van Steen and E. Sterken, Is size important for the investment-uncertainty relationship? An empirical analysis for Dutch Firms, pp. 19
- ooCo4 Brakman, S., H. Garretsen and M. Schramm, Ten years after the unification: East Germany and the relevance of modern theories of trade, location and growth, pp. 30
- ooEo5 Budina, N., H. Garretsen and E. de Jong, Liquidity constraints and investment in transition economies: the case of Bulgaria, pp. 38
- ooCo6 Elhorst, P., The mystery of regional unemployment differentials; a survey of theoretical and empirical explanations, pp. 55
- ooAo7 Velde, R.R. van der and D.P. van Donk, Bi-project management in engineering complex industrial construction projects, pp. 22
- ooEo8 Benninga, S. and J. Mayshar, Heterogeneity and option pricing, pp. 28
- ooAo9 Slomp, J. and G.C. Ruël, A socio-technical approach for the design of a production control system, towards controllable production units, pp. 31
- ooE10 Dijk, M. van, Fixing prices for private and public tenders submitted by construction firms: an empirical investigation, pp. 17
- ooA11 Bogt, H.J. ter, Politicians, output-budgets and performance evaluation, case research in three Dutch Municipalities, pp. 35
- ooE12 Lensink, R., Is there an uncertainty-laffer curve?, pp. 13
- ooB13 Peli, G., The cricket and the ant: organizational tradeoffs in changing environments, pp. 28
- ooF14 Meijer, E. and T. Wansbeek, Measurement error in a single regressor, pp. 10
- ooA15 Zee, D.J. van der, Look-ahead strategies for controlling batch operations in industry- overview, comparison and exploration, pp. 27
- ooC16 Elhorst, J.P., Dynamic models in space and time, pp. 35
- ooB17 Vermeulen, I. and J. Bruggeman, The logic of organizational markets: thinking through resource partitioning theory, pp. 30
- ooA18 Ghosh, D., N. Chakravarti and G. Sierksma, Sensitivity analysis of the greedy heuristic for binary knapsack problems, pp. 22
- ooA19 Eije, J.H. von, M.C. de Witte and A.H. van der Zwaan, IPO-related organizational change and long-term performance, pp. 17
- ooF20 Leeflang, P.S.H. and D.R. Wittink, Building models for marketing decisions: past, present and future, pp. 43
- ooC21 Peeters, J. and A. de Vaal, Explaining the wage gap: Hecksher-Ohlin, economic geography and service availability, pp. 50
- ooA22 Ramaswamy R., N. Chakravarti and D. Ghosh, Complexity of determining exact tolerances for min-max combinatorial optimization problems, pp. 22
- ooF23 Haan, M. and L. Schoonbeek, Auctions with rent seeking, pp. 17
- ooA24 Zhang, Z., The impact of TQM implementation on overall business performance: an exploratory study, pp. 37
- ooF25 Meijer, E. and J. Rouwendal, Measuring welfare effects in models with random coefficients, pp. 55
- ooA26 Klein Haneveld, W.K. and M.H. van der Vlerk, Optimizing electricity distribution using two-stage integer recourse models, pp. 17

- 00E27 Hermes, N. and R. Lensink, Foreign direct investment, financial development and economic growth, pp. 32
- 00A28 Donk, D.P. van, Redesigning the supply of gasses: co-makship in a hospital, pp. 15
- 00F29 Spring, P.N., T. Wansbeek and P.S.H. Leeftang, Interactions between consumers and firms: identifying the direct mail-prone consumer, pp. 28
- 00C30 Hermes, N. and R. Lensink, Capital flight and the uncertainty of government policies, pp. 18
- 00C31 Soest, D.P. van, G.H. Kuper and J. Jacobs, Threshold effects of energy price changes, pp. 22
- 00C32 Bo, H. and E. Sterken, Do firms wait to invest? An empirical investigation, pp. 30
- 00A33 Ghosh, D. and S. Das, Discrete optimization problems with random cost elements, pp. 22
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- 00D41 Rao Sahib, P., Sterilisation and the Work Careers of Women, pp.24
- 00E42 Feenstra, D.W. and H. Wang, Economic and Accounting Rates of Return, pp. 38
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- 00A46 Nauta, A. and K. Sanders, Causes and Consequences of Perceived Goal Differences between Departments within Manufacturing Organizations, pp. 37.
- 00A47 Ghosh, D. and G. Sierksma, Complete Local Search with Memory, pp. 14.
- 00F48 Haan, M. and P. Kooreman, Free Riding and the Provision of Candy Bars, pp. 20.
- 00F49 M. Haan, The Economics of Free Internet Access, pp. 23.
- 00E50 Postma, T.J.B.M. and H. van Ees, On the Functions of Supervisory Boards in the Netherlands, pp. 28.
- 00A51 Karsten, L. and K. van Veen, The Changing Role of the Government in the Dutch Knowledge Community of management Issues in the Period 1945-2000, pp. 23.
- 00E52 Drijver, S.J., W.K. Klein Haneveld and M.H. van der Vlerk, Asset liability Management modeling using multi-stage mixed-integer Stochastic Programming, pp. 18.
- 00A53 Zwaan, A.H. van der, Dutch studies on work and organization; trends in the nineties, pp. 17.
- 00A54 Goldengorin, B., D. Ghosh and G. Sierksma, Equivalent Instances of the Simple Plant Location Problem, pp. 17.

- ooE55 Feenstra, D.W., C.A. Huijgen and H. Wang, An Evaluation of the Accounting Rate of Return: Evidence for Dutch Quoted Firms, pp. 34.
- ooD56 Rao Sahib, P. and X. Gu, Risk, Cohabitation and Marriage, pp. 25.
- ooB57 Kok, R.A.W., T.J.B.M Postma and A.G.M. Steerneman, Cross-Classification Analysis in the Field of Management and Organization: Comments on the DEL-Technique, pp. 26.
- ooF58 Bekker, P.A., Exact inference for the linear model with groupwise heteroscedastic spherical disturbances, pp. 26.
- ooC59 Ruijs, A., C. Schweigman, C. Lutz and G. Sirpé, Cereal trade in developing countries: stochastic spatial equilibrium models, pp. 356.
- ooE60 Bekker, P.A., Minimum-Risk Hedging against Contingent Claims, pp. 43.
- ooC61 Prasada Rao, D.S. and M. Timmer, Multilateral Comparisons in the ICOP Project: Issues, Methods and Empirical Results, pp. 51.
- ooE62 Nieuwenhuis, J.W., Realizations of Interest Rate Models, pp. 6.
- ooF63 Bekker, P.A., Assumption-equivalent inference in an instrumental variable setting, pp. 46.

Appendix 4 Seminars 2000

January

B. Lukas (University of Melbourne, Australia), The effect of market orientation on product innovation.

P. Tamas (Hungarian Academy of Sciences, Budapest), Is that the new frontier? Multinationals, technology networks and the post-socialist design in Eastern Europe.

P. Tamas (Hungarian Academy of Sciences, Budapest), Where is Russia going? Economic and political directions.

February

H. Lloyd Elles (University of Toronto), Fiscal shocks and fiscal risk management.

G. Hewings (University of Illinois), Economic interdependence within the Chicago metropolitan region: a Miyazawa analysis.

S. Gerkin (University of Wyoming), Dynamic information externalities and employment growth in the province of South Holland.

J.J. Jonker (Erasmus University, Rotterdam), Modelling charity donations: target selection, response, time and gift size.

T. van Schaik (Tilburg University), Institutions and economic success.

March

M. Keyzer (Free University Amsterdam), Libanon, van berg- naar poldermodel?

R. Bolton (University of Maryland), Modeling business customers' decisions.

T. Coelli (University of New England), Implicit value shares in malmquist TFP index numbers.

M. Lindeboom (Free University Amsterdam), Work and health of Dutch elderly.

A. Swaminathan (University of California at Davis), Network structure and business survival: the case of the US automobile component suppliers.

N. Rankin (University of Warwick), Time consistency, ability to commit and optimal seigniorage: further perspectives on the inflation bias problem.

A. Wilts (University of Amsterdam), Disciplinary developments in Dutch economics and the emergence of the Dutch welfare state (1930-1960).

April

O. Morrissey (University of Nottingham), Tax perceptions, free-riding and the demand for public expenditure: evidence from UK micro data.

P. Bouissac (University of Toronto), Serendipity and selection: can evolutionary models be transferred from organisms to organisations?

I. van Lelyveld (De Nederlandsche Bank), A culture of inflation aversion.

P. den Hartog (Dialogic, Utrecht), Conceptualizing service innovation and service innovation patterns.

H. Balsters (University Twente), Federating information systems: how to let existing components cooperate within a unified system.

F. de Roon (Erasmus University, Rotterdam), International portfolio diversification: industrial structure, country and currency effects revisited and currency hedging for international stock portfolios: a general approach.

P.J.J. Herings (University of Maastricht), The robustness of CAPM - a computational approach.

N. VanDaele (University of Antwerp) and *M. Lambrecht* (University of Leuven), Spicer off-highway products division - Brugge improves its lead timescheduling performance.

May

K. Jansen (ISS, The Hague), Monetary policy after the crisis in Thailand.

U. Ebert (University of Oldenburg), Equalizing incomes: a normative approach.

M. Verbeek (University of Leuven), The economic value of predicting stock index returns and volatility.

H. Schenk (Erasmus University, Rotterdam), Policy implications of purely strategic mergers.

K. Cools (University of Groningen/Boston Consulting Group) and *M. van Praag* (University of Amsterdam), On the virtues of transparency and simplicity: an empirical analysis of the value relevance of targets.

A. Sharpe (Center for Studies of Living Standards, Ottawa), Estimates of an index of economic well-being for OECD countries.

K. Haaf (De Nederlandsche Bank), Measures of competition and concentration: a review of the literature.

June

G. Ridder (Johns Hopkins University, Baltimore), Efficient estimation of average treatment effects using the estimated propensity score.

J. Leopold (HRM, Nottingham), Management approaches to replicating high commitment greenfield practices in the UK and New Zealand.

G. Fisher (Concordia University, Canada), Myopic loss aversion and the value strategy anomaly.

D. Ralston (University of Oklahoma), Negotiating for organizational rewards and recourses: a cultural perspective of upward influence strategies.

July

D. Ralston (University of Oklahoma), Challenges of doing research in the global context.

September

C. Hommes (University of Amsterdam), Expectations driven price volatility in an experimental cob web economy.

October

R. Locke (University of Hawaii), Americanization after 1945: not once but twice, the French case.

R. Schettkat (University Utrecht), Skill compression, wage differentials and employment: Germany vs. the US.

S.D. Jap (MIT, Sloan School of Management), The impact of reverse auctions on buyer-supplier relationships.

A. Mukherjee (Technical University Eindhoven), Imitation, patent protection and welfare.

F. Sortino (Pension Research Institute, San Francisco/San Francisco State University), On mutual funds, downside risk and performance evaluation.

R. Douven (Netherlands Bureau for Economic Policy Research), Regulated competition in health insurance markets.

November

S. Sahay (University of Oslo, Norway), Global software outsourcing arrangements.

R. Beetsma (University of Amsterdam), Labor-market imperfections and decentralized fiscal policies in EMU.

M. Janssen (Free University Amsterdam), Diffusion of green consumption; simulating the co-evolution between firms and consumers.

J.S. Kim (University of Illinois, Urbana-Champaign), Modeling longitudinal choice data: a latent-change scaling approach.

C. Robinson (York University, Canada), Self-annuitization and ruin in retirement.

T.N. Srinivasan (Yale University), Growth, poverty reduction and inequality.

J. van der Vorst (University of Wageningen), Effective food supply chains: generating, modeling and evaluating supply chain scenarios.

F. Warzunki (University of Leuven, Belgium), The causes and consequences of managerial change in Ukraine and the complementarity of reforms.

M. Cornet (Netherlands Bureau for Economic Policy Research), Tackling the journal crisis.

December

T. Renström (Tilburg University/University of Birmingham), Political institutions and redistribution.

F. Kleibergen (University of Amsterdam), Testing in instrumental variables regression.

A. Schilder (Ministry of Finance, The Hague), Government failures and institutions in public policy evaluation; the case of Dutch technology policy.

A.R. Pose (London School of Economic and Political Science), Local production systems and regional economic performance in France, Germany, Italy and the UK.

R. Alessie (Free University Amsterdam), Household portfolios in the Netherlands.

R. Otten (University of Maastricht), Statistical tests for return based style analysis.

C.C. Tsai (University of Illinois), Maximum likelihood estimation of thurstonian paired comparison models.

L. Mirman (University of Virginia), Financial intermediation and entry deterrence.

P. Broer (Netherlands Bureau for Economic Policy Research), Production and market structure in the Athena model.