

LOUVAIN SCHOOL OF MANAGEMENT

RESEARCH REPORT

2004 - 2005

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Introduction

As a University-based School, research plays an essential role within the Louvain School of Management. We aim at continuously developing knowledge, analysis and resolution methods to study management and organizational questions and problems. As academics, the process and output of these activities are cornerstones of our strategy.

Research at the Louvain School of Management is centred around five areas that have been identified as strategic priorities for the School. Those are Supply Chain Management; Management and Information Technology; Change, Innovation and Strategy; Finance and finally Corporate Social Responsibility and Environment. Furthermore, the School is working closely with other research centres within and outside the University (in particular the Centre for Operations Research and Econometrics, the Social Relation Institute/Institut des Sciences du Travail and the Actuarial Sciences Institute), through the research activities of its Associate Professors.

This Research report presents the main activities and results of the School within each of these areas of expertise, in terms of scientific publications, conferences and other research activities.

Recent developments

As a result of the redefinition of its strategic positioning, the School has decided in 2004 to restructure its research activities around a limited number of Centres of Excellence, in order to increase the visibility of its research and improve its research productivity by reaching a critical mass of resources and capabilities within each area.

Three Centres of excellence have been created so far: Supply Chain Management (CESCM); Management and Information Technology (CEMIT) and Change, Innovation and Strategy (CRECIS). The creation of one or two additional Centres of excellence in the near future is planned, in Finance and in Corporate Social Responsibility and Environment.

The creation of those Centres of excellence has aroused a great interest from our corporate partners. In particular six new corporate research partnerships have been launched, with the Belgian National Bank (CRECIS); with Carsid, Citobi, Denali and Vadis (CEMIT); and with L'Oréal (CESCM). One new executive education programme has also been successfully launched by the CESCM.

On the other hand, the School has decided to develop and strengthen its Doctoral School program in order to build up its research capabilities and to leverage the new opportunities offered by the “Bologna “ reform. This new program will be available fully in English and will be developed in close cooperation with our sister institutions within the “Académie Louvain”, which regroup four academic institutions representing more than 1000 master and postgraduate students in management in Belgium.

Negotiations are also underway to establish privileged relationships with other internationally renowned institutions such as EDHEC and KULeuven. Similarly, the School is a core participant of the CEMS Research and Doctoral Education initiative, aimed at fostering closer cooperation among member institutions.

This new doctoral programme will provide students with an expanded selection of advanced courses and opportunity for significant international exposure.

Finally, the School developed in 2005 an uniform ranking of scientific journals in management, covering its main areas of interest and combining the ranking developed by leading business school and research institutions in Europe (see Appendix).

RESEARCH AT THE
CENTRE OF EXCELLENCE
IN SUPPLY CHAIN
MANAGEMENT

[CESCM]

Research at the Centre of Excellence in Supply Chain Management (CESCM)

1. Presentation

The Centre of Excellence in Supply Chain Management (CESCM) gathers a critical mass of faculty, researchers and experts in the field of supply chain management (SCM). The definition of SCM is interpreted broadly to cover all aspects of production, logistics and supplier relations. It combines operations management, management science and industrial organization in a systematic attempt to understand, model and support the multi-level organizational behaviour. The research is in particular oriented toward:

- (1) empirical analysis, the economic and systemic modelling of inter-organizational relations;*
- (2) the study and development of methodologies and techniques for the decision support systems at all hierarchical levels of the chain;*
- (3) the study, modelling and optimization of systems of decentralized or distributed coordination.*

PROFESSORS

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2. Scientific Publications

2.1. Articles published in Scientific Journals

AGRELL P.

- AGRELL P.J. and P. BOGETOFT (2004) *Economic and Environmental Efficiency of District Heating Plants*. Energy Policy, forthcoming.
- AGRELL P.J., P. BOGETOFT and J. TIND (2005) *Dynamic DEA and Yardstick Regulation in Scandinavian Electricity Distribution*. Journal of Productivity Analysis, 23, 173-201.
- AGRELL P.J., P. BOGETOFT, M. BROCK and J. TIND (2005) *Efficiency Evaluation with Convex Pairs*, Advanced Modeling and Optimization (AMO), 7(2): 211-237.

CERAV-ERBAS S.

- Cagkan Erbas, Selin Cerav-Erbas and Andy D. Pimentel, *Multiobjective Optimization and Evolutionary Algorithms for the Application Mapping Problem in Multiprocessor System-on-Chip Design*, EEE Transactions on Evolutionary Computation, 10(5): ppp-ppp, October 2006. To appear.

CHEVALIER Ph.

- CHEVALIER P. and VAN DEN SCHRIECK (2005) *Optimizing the staffing and routing of small size hierarchical call-centers* Production and Operations Management (forthcoming)

FORTZ B.

- Fortz B., Mahjoub A., Mc Cormick S., Pesneau P., *Two-edge connected subgraphs with bounded rings: Polyhedral results and Branch-and-Cut*, Mathematical Programming, 2005.

POCHET Y.

- Elloumi Sourour, Labbé Martine, Pochet Yves, *New formulation and resolution method for the p-center problem*, Informs Journal on Computing, 16, 1, 2004, p. 84-94.
- Pochet Yves, Van Vyve Mathieu, *A general heuristic for production planning problems*, Informs Journal on Computing, 16, 3, 2004, p. 316-327.

UMIT H.

- Leduc G., Abrahamsson H., Balon S., Bessler S., D'arienzo M., Delcourt O., Domingo-Pascual J., Cerav-Erbas S., Gojmerac I., Masip X., Pescaph A., Quoitin B., Romano S., Salvatori E., Skivée F., Tran H., Uhlig S., Umit H., *An Open Source Traffic Engineering Toolbox*, Computer Communications, 2005.

2.2. Book chapters

BRUSSET X.

- Brusset X., Temme N., *Impact of information and coordination on transport procurement in "Supply chain Management – Euyropean Perspectives"*. Editors: René de Koster et Werner Delfmann. Publisher: Copenhagen Business School Press.

3. Conferences

3.1. Conferences with proceedings

CHEVALIER PH.

- Chevalier Ph., Van Den Schrieck J.-C., *Optimizing the Staffing of Call Centers*, POMS Conference on Operations Management in Services, New-York, 2-3 décembre.2004
- Chevalier P., Macq J.-F., *Increasing Forward Error Correction Robustness by Optimizing Multipath Routing*, In : Proceedings of the second International Network Optimization Conference (INOC2005), Lisbon, Portugal, March 2005, Luis Gouveia, Cândida Mourão ed(s), 2005, p.747-752.

BRUSSET X.

- *Comparison between two-part tariff and Quantity Flexibility contracts for services in a supply chain*; Proceedings of the 19th ORBEL (Operational Research Society of Belgium) in Louvain-la-Neuve; January 27-28, 2005; pp 48-49.
- *Comparison between minimum purchase, quantity flexibility contracts and spot procurement in a supply chain*; Proceedings of the 8th Distributed Decision Making EURO Working Group in Innsbruck, Austria, April 1-2, 2005; <http://orgwww.bwl.univie.ac.at/ddm>.
- *Comparison between supply chain contracts*; Proceedings of the 10th ELA (European Logistics Association) Doctorate workshop in Monchy Saint Eloi, France, June 22-24, 2005; <http://www.few.vu.nl/~ela/>.
- *Comparing transport contracts in a multi-period setting*; Proceedings of the 10th EURO Working Group on Transportation in Poznan, Poland, September 13-16, 2005; <http://euro2005.cs.put.poznan.pl/eproc.html>. N° ISBN: 8371432395. Editors: Andrezj Jaskiewicz, Mariusz Kaczmarek, Jacek Zak and Marek Kubiak; Publishe: Poznan University of Technology, 2005; pp153-159.

3.2. Other conferences

FORTZ B.

- B Fortz, S. Cerav, H. Umit, *Totem: A Toolbox for Traffic Engineering Methods*, IFORS 2005, July 11-15, Hawaii

CERAV-ERBAS S.

- Bernard Fortz, Selin Cerav, Hakan Umit, *Totem: A Toolbox for Traffic Engineering Methods*, IFORS 2005, July 11-15, Hawaii.
- Hakan Umit, Bernard Fortz, Selin Cerav-Erbas, *An Embedded IGP Weight Optimization Tool in an Internet Traffic Engineering Toolbox*, 12th Han-sur-Lesse Conference on Mathematical Programming, 3-4 March 2005, Han-sur-Lesse.
- Hakan Umit, Bernard Fortz, Selin Cerav-Erbas, *Totem: A Toolbox for Traffic Engineering Methods*, Optimization Frameworks on Industrial Applications, October 19-21/2005, Paris

4. Other publications

4.1. Working papers

BRUSSET X.

Xavier Brusset, Nico M. Temme,

Optimizing an objective function under a bivariate probability model

ABSTRACT

The motivation of this paper is to obtain an analytical closed form of a quadratic objective function arising from a stochastic decision process with bivariate exponential probability distribution functions that may be dependent. This method is applicable when results need to be offered in an analytical closed form without double integrals. However, the study only applies to cases where the correlation coefficient between the two variables is positive or null. A stochastic, stationary objective function, involving a single decision variable in a quadratic form is studied. We use a primitive of a bivariate exponential distribution as first expressed by Downton (1970) and revisited in Iliopoulos (2003). With this primitive, optimization of objective functions in Operations Research, supply chain management or any other setting involving two random variables, or calculations which involve evaluating conditional expectations of two joint random variables are direct. We believe the results can be extended to other cases where exponential bivariates are encountered in economic objective function evaluations. Computation algorithms are offered which substantially reduce computation time when solving numerical examples.

(132/05)

CERAV-ERBAS S.

- Selin Cerav-Erbas, Olivier Delcourt, Bernard Fortz, Bruno Quoitin, *The Interaction of IGP Weight Optimization with BGP*, 2005.
- Cagkan Erbas, Selin Cerav-Erbas and Andy D. Pimentel, *Static Priority Scheduling of Event-Triggered Real-Time Embedded Systems*, sent to a special issue of Formal Methods in System Design, Springer.

CHEVALIER PH.

- CHEVALIER P., VAN DEN SCHRIECK J.-C., *Optimizing the staffing and routing of small size hierarchical call-centers*, 2005, IAG Working Papers,

(148/05)

FORTZ B.

Bernard Fortz Quentin Botton,

Decomposition Methods for the Optimization of Survivable Telecommunications Networks

ABSTRACT

Nowadays, survivability in telecommunication networks is a crucial problem in networks optimization. Given a set of requirements, which correspond to single or multi commodity

flows, the survivable network design problem (SNDP) consists in determining a minimum cost network topology and capacity assignment such that all traffic demands are satisfied, especially in the case of link or node failure. In the literature, it is generally proposed that a reserve network is added to the main one in order to provide an additional capacity used only in the case of failure. Because capacity in telecommunications is a key resource, keeping excess capacity is expensive for telecommunication companies, but the inability to transfer data, even for a limited time, could be seen as unacceptable to the user, and consequently have an indirect impact on the profitability of the company. In this research, we are primarily interested in proposing a Linear Programming model, taking into account, on the one hand, specificity of failure occurrences, and on the other hand, an optimal traffic re-allocation or rerouting (global vs local) strategies. We also investigate the relevance and the performance of applying decomposition techniques (like the Benders Decomposition) to this kind of problems.

(135/05)

4.2. Research report

CERAV-ERBAS S.

- Rob H. Bisseling, Jaroslaw Byrka, Selin Cerav-Erbas, Nebojsa Gvozdenovic, Mathias Lorenz, Rudi Pendavingh, Colin Reeves, Matthias Roeger, and Arie Verhoeven, *Partitioning a Call Graph*, Proceedings Study Group Mathematics with Industry 2005, Amsterdam.
- Cerav-Erbas S., *Traffic Engineering in MPLS Networks with Multiple Objectives: Modeling and Optimization*, PhD thesis, Aachen University of Technology (RWTH Aachen), November 2004, <http://www.bth.rwth-aachen.de/ediss/ediss.html>.

4.3. The doctoral program

Doctoral dissertations

- “Optimization of multimedia flows over data networks : the core location problem and the peakedness characterization”, Jean-François Macq, UCL, 2005. Promoteurs: Benoît Macq et Laurence Wolsey.

5. International research activities

5.1. Workshops And Conferences

AGRELL P.

- Organization of EWEPa IX
CESCM/IAG (professors Per Agrell, Etienne Loute) in cooperation GAPEM, supported by University Lille 3 and CNRS/LABORES, is organizing the Ninth European Workshop on Efficiency and Productivity Analysis (EWEPa IX), June 29-July 1, 2005. The biannual European conference is the major event for the efficiency analysis community in 2005, anticipating some 250 participants, around 130 presentations, a one-day doctoral workshop.
- LIS Belgo-Dutch Workshops on Logistics and SCM
Since the spring of 2004 CESCM together with Erasmus Rotterdam and Univ. Antwerpen organized a regular workshop of the so-called “the LIS Belgo-Dutch Logistics and Supply Chain Management group”. This workshop is meeting every semester rotating between the different schools.

FORTZ B.

- Member of the program committee of the following conferences:
IFORS 2005 (Honolulu, Hawai, July 2005)
INOC 2005 (Lisbon, Portugal, March 2005)
FRANCORO IV (Fribourg, Switzerland, August 2004)
- Organization of ORBEL 2005
Professor Bernard Fortz (CESCM) and François Glineur (CORE) are organizing the annual Belgian Operations research conference in January 27-28, 2005, ORBEL 2005. The conference is a pivotal event for the Belgian Operations research society SOGESCI-B.V.W.B, gathering around 100 participants, three plenary sessions and some 70 contributed and invited talks.

UNIT H.

- “A Column Generation Approach for IGP Weight Setting Problem”, CoNEXT’05 Student Workshop, October 24-27, 2005, Toulouse (ACM 1-59593-035-3/05/0010)

5.2. Academic Visits

CERAV-ERBAS S.

Visits to other institutions

- International Network Optimization Conference, University of Lizbon, March 2005, Lizbon.
- Study Group Mathematics with Industry 2005, Vrije Universiteit, Amsterdam.

6. Research collaborations

6.1. Research contracts

THE TOTEM PROJECT

The objective of the TOTEM project (TOolbox for Traffic Engineering Methods) is to develop a toolbox of algorithms for traffic engineering purposes. These algorithms aim to help network operators in the decision processes associated with the design and the operation of internet networks. We will unify the algorithms which we already proposed these last years and we will develop new techniques of traffic engineering applicable in a single network as well as between distinct networks. These techniques will take into account the distribution of the traffic, the fault-tolerance requirement and the support of the quality of service. We will develop generic algorithms for the optimization of networks of big size which will apply, on one hand, to IP networks, and on the other hand, to networks operated with (G)MPLS. Some of these algorithms will require extensions to the routing (OSPF-TE, ISIS-TE, BGP) or signalling (RSVP-TE) protocols which we will submit to IETF. Our toolbox will be available in open source and will be designed such that its elements can easily be integrated in various platforms such as Linux PCs, routers, and open source network simulators like NS and/or J-Sim. The TOTEM project is funded by the Direction Générale des Technologies, de la Recherche et de l'Energie of the Walloon government. It started in November 2003 and will last for three years. The partners are:

- Université Catholique de Louvain, Dept. Computing Science and Engineering
- Université Catholique de Louvain, Unité de Logistique et de Modélisation (IAG - POMS)
- Université de Liège, Research Unit in Networking

HAREM INFORMATION, INVESTMENTS AND GLIDING COORDINATION ROLES

The HAREM project in collaboration with the University of Lund and Royal Agricultural University of Denmark is based on theoretical modeling work in close interaction with industrial partners (among them Ericsson Telecom division). In particular, the focus is directed towards the dynamic allocation of coordination roles (such as inventory, quality and process control) in supply chains with asymmetric information and high potential conflicts with respect to residual claims and risk management. HAREM has both provided positive results to enhance the understanding of coordination problems as well as normative models to inform decision makers on viable and incentive compatible models for long-term collaboration. The project has also a more ambitious vision to contribute to the formation of knowledge on trust and reputation mechanisms in supply chains, using analogies from models related to upstream traceability in commodity chains.

EU-DEEP (REGULATION OF DISTRIBUTED ENERGY GENERATION)

The EU-DEEP project aims at developing business models for the deployment of DER (Distributed Energy Resources) in the European Market. The project under the 6th framework, involving 39 partners, among energy operators, industrial manufacturers, research centers, academics, professionals and national agencies, provides an interdisciplinary approach mixing engineering and economics both in theoretical and applied contexts. UCL (CORE/IAG) is involved in the subproject on sustainable and dynamic regulation models

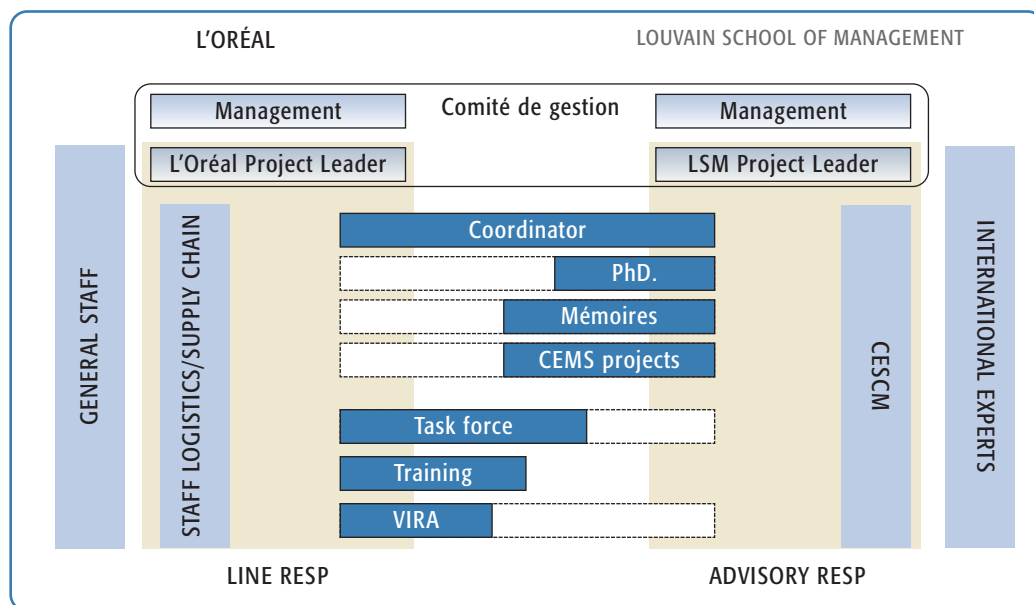
for DER, including analyses of technical and economic organization of the activity, related to coordination, information and market efficiency concerns.

6.1. Research partnership

L'ORÉAL

L'Oréal Belgium has signed a partnership in Supply Chain Management with IAG/CESCM, involving the financing of a doctoral student/local coordinator, joint projects and workshops, drawing on the broad expertise and international network of CESCM. The partnership, illustrated in Figure 1 below, is monitored by a steering group consisting of two members from each L'Oréal and IAG (currently the President of IAG and the Coordinator of CESCM). The partnership has the objective to jointly develop the logistics and supply chain management skills and practices of L'Oréal, through training, analysis, project work at multiple levels and increased awareness of the functional scope within the supply chain.

Figure 1 L'Oréal - CESCM Partnership model.



Roman Kasperzec has been appointed as coordinator in the project and allocates currently 40% of his time at L'Oréal, 40% in research and 20% for program activities, student coordination at L'Oréal and teaching. IAG Project leader and thesis advisor is professor Per Agrell at CESCM.

IMERYS

The IMERYS Group, the European leader in building materials with 280 industrial sites and close to 14,000 employees in 36 countries, has concluded a partnership in supply chain management to finance a doctoral project in transportation economics and logistics. The appointed student Xavier Brusset performs currently a large empirical project within the group, exploring the contractual relationships between carriers and shippers in the chain. The research is guided by professors Per Agrell (advisor), Paul Belleflamme and Yves Pochet, all CESCM.

RESEARCH AT THE
CENTRE OF EXCELLENCE
IN MANAGEMENT
AND INFORMATION
TECHNOLOGY

[CEMIT]

Research at the Centre of Excellence in Management and Information Technology (CEMIT)

1. Presentation

The Centre of Excellence in Management and Information technology (CEMIT) is devoted to the systematic study, conception and analysis of strategies, methodologies, processes and systems related to electronic management. As the centre covers both the information system sciences and competencies related to strategic change and process management, it applies a comprehensive approach to ICT management systems. The interdisciplinary work in the centre has an analytical and critical character, offering important and complementary insights to the predominantly constructivist approaches.

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2. Scientific Publications

2.1. Articles published in Scientific Journals

KOLP M.

- Jureta, M. Kolp and S. Faulkner *Multi-Agent Patterns For Deploying Online Auctions*. To appear in International Journal of Intelligent Information Technologies (IJIIT), Idea Group, end 2005
- L. Penserini, M. Kolp and L. Spalazzi. *Social Oriented Engineering of Intelligent Software* To appear in International Journal of Web Intelligence and Agent Systems (WIAS), IOS Press, end 2005
- M. Kolp, T. Tung Do, S. Faulkner and D.T. Nguyen. *Social-Centric Development of Multi-Agent Architectures*. To appear in Journal of Organizational Computing and Electronic Commerce, Erlbaum Associates Inc., end 2005.
- M. Kolp, P. Giorgini and J. Mylopoulos. *Multi-Agents Architectures as Organizational Structures*. To appear in Journal of Autonomous Agents and Multi-Agent, Kluwer Academic Publishing, 2006.
- M. Kolp, A. Coyette and S. Faulkner. *Specifying Agent Oriented E-Commerce Software as Organizational Structure*. In Journal of System Science and System Engineering, 13(4) pp. 450-468, 2005.

SAERENS M.

- Fouss F. & Saerens M. (2004), *Yet another method for combining experts opinions: A maximum entropy model*. Proceedings of the 5th International Workshop on Multiple Classifier Systems (MCS 2004); Lecture Notes in Computer Science, Vol. 3077, Springer-Verlag, pp 82-91.
- Saerens M., Fouss F., Yen L. & Dupont P. (2004), *The principal components analysis of a graph, and its relationships to spectral clustering*. Proceedings of the 15th European Conference on Machine Learning (ECML 2004), Lecture Notes in Artificial Intelligence, Vol. 3201, Springer-Verlag, pp. 371-383.

VANDERDONCKT J.

- Vanderdonckt, J., Beirekdar, A., *Automated Web Evaluation by Guideline Review*, Journal of Web Engineering, Vol. 4, No. 2, 2005, pp. 102-117.
- Bouillon, L., Vanderdonckt, J., Souchon, N., *Rétro-ingénierie du modèle de présentation pour les pages Web*, Revue d'Interaction Homme-Machine, Vol. 5, No. 2, 2005, pp. 31-58.
- Amouh, T., Gemo, M., Macq, B., Vanderdonckt, J., El Gariani, A.W., Reynaert, M., Stamatakis, L., Thys, F., *Versatile Clinical Information System Design for Emergency Departments*, IEEE Transactions on Information Technology in Biomedicine, Vol. 9, No. 2, June 2005, pp. 1-10.
- Trevisan, D., Vanderdonckt, J., Macq, B., *Conceptualising Mixed Spaces of Interaction for Designing Continuous Interaction*, Virtual Reality, Vol. 8, No. 2, 2005, pp. 83-95. Accessible at <http://www.springerlink.com/app/home/contribution.asp?wasp=c070e875da3f4a0287007b17795bcd6&referrer=parent&backto=searcharticlesresults,1,1;searcharticlesresults,1,1;>

2.2. Books

KOLP M.

- *Perspectives in Conceptual Modeling*, Lecture Notes in Computer Science, Vol. 3770, Springer, 2005, 476 p., ISBN: 3-540-29395-7, Germany, Akoka, J.; Mayr, H.C.; Liddle, S.W.; Song, I.-Y.; Bertolotto, M.; Comyn-Wattiau, I.; v.d. Heuvel, W.-J.; Kolp, M.; Trujillo, J.; Kop, C. (Eds.),

VANDERDONCKT J.

- Jacob, R., Limbourg, Q., Vanderdonckt, J. (Eds.), *Computer-Aided Design of User Interfaces IV*, Proc. of 5th Int. Conf. of Computer-Aided Design of User Interfaces CADUI'2004 (Funchal, 13-16 January 2004), Information Systems Series, Kluwer Academics, Dordrecht, 2005. ISBN for the hardback is 1-4020-3145-9. ISBN for the e-book is 1-4020-3304-4.
- Vanderdonckt, J., Law, E. L.-C., Hvannberg, E.T. (Eds.) (2005). Proceedings of International COST294 Workshop on User Interface Quality Models (UIQM'05) in conjunction with INTERACT'05, 12th -13th September 2005, Rome, Italy.

2.3. Book chapters

HOANG T.

- M. Kolp, T. Tung Do, S. Faulkner and T.T. Hang Hoang *Organizational Modeling Patterns*. In S. K. Chung (Ed.) *Advances in Software Engineering and Knowledge Engineering Vol. III*, World Scientific, 2005.
- M. Kolp, T. Tung Do, S. Faulkner and T.T. Hang Hoang *Introspecting Agent-Oriented Design Patterns*. In S. K. Chung (Ed.) *Advances in Software Engineering and Knowledge Engineering Vol. III*, World Scientific, 2005.
- M. Kolp, T. Tung Do, S. Faulkner and T.T. Hang Hoang. *Architectural Styles and Patterns for Multi-Agent Systems*. In L. Jain (Ed.) *Design of Intelligent Multi-Agent Systems, Human-Centredness, Architectures, Learning and Adaptation*, pp. 103 -133, October 2004.

KOLP M.

- M. Kolp, T. Tung Do, S. Faulkner and T.T. Hang Hoang. *Architectural Styles and Patterns for Multi-Agent Systems*. In L. Jain (Ed.) *Design of Intelligent Multi-Agent Systems — Human-Centredness, Architectures, Learning and Adaptation*, pp. 103 -133, October 2004.
- M. Kolp, T. Do, S. Faulkner. *A Social Driven Design of E-Business System*. In R. Choren, A. Garcia, C. Lucena and A. Romanovsky (Eds.) *Software Engineering for Multi-Agent Systems III: Research Issues and Practical Applications*, Springer, 2005.
- M. Kolp, T. Tung Do, S. Faulkner and T.T. Hang Hoang *Organizational Modeling Patterns*. In S. K. Chung (Ed.) *Advances in Software Engineering and Knowledge Engineering Vol. III*, World Scientific, 2005.

- P. Giorgini, M. Kolp, J. Mylopoulos and J. Castro. *Tropos: A Requirements-Driven Methodology for Agent-Oriented Software* In B. Henderson-Sellers and P. Giorgini (Eds) *Agent-Oriented Methodologies*, Idea Group, 2005
- M. Kolp, T. Tung Do, S. Faulkner and T.T. Hang Hoang *Introspecting Agent-Oriented Design Patterns*. In S. K. Chung (Ed.) *Advances in Software Engineering and Knowledge Engineering Vol. III*, World Scientific, 2005.

VANDERDONCKT J.

- Mariage, C., Vanderdonckt, J., Pribeanu, C., State of the Art of Web Usability Guidelines, Chapter 41, in Proctor, R.W., Vu, K.-Ph.L. (Eds.), *The Handbook of Human Factors in Web Design*, Lawrence Erlbaum Associates, Mahwah, 2005, pp. 688-700.
- Limbourg, Q., Vanderdonckt, J., UsiXML: A User Interface Description Language Supporting Multiple Levels of Independence, in Matera, M., Comai, S. (Eds.), *Engineering Advanced Web Applications*, Rinton Press, Paramus, 2004, pp. 325-338.

3. Conferences

3.1. Conferences with proceedings

FOUSS F.

- Fouss F., Pirotte A. & Saelens M. (2004), *A Novel Way of Computing Dissimilarities between Nodes of a Graph, with Application to Collaborative Filtering*. 15th European Conference on Machine Learning (ECML 2004); Proceedings of the Workshop on Statistical Approaches for Web Mining (SAWM), pp 26-37.
- Saelens M., Fouss F., Yen L. & Dupont P. (2004), *The principal components analysis of a graph, and its relationships to spectral clustering*. Proceedings of the 15th European Conference on Machine Learning (ECML 2004), Lecture Notes in Artificial Intelligence, Vol. 3201, Springer-Verlag, Berlin, 2004, pp 371-383.
- Yen L., Vanvyve D., Wouters F., Fouss F., Verleysen M. & Saelens M. (2005), *Clustering using a random-walk based distance measure*. Proceedings of the 13th Symposium on Artificial Neural Networks (ESANN 2005), pp 317-324

SAERENS M.

- Fouss F., Renders J.-M. & Saelens M. (2004), *Some relationships between Kleinberg's hubs and authorities, correspondence analysis and Markov chains*. Proceedings of the 7th International Conference on the Statistical Analysis of Textual Data (JADT), pp. 445-455.
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3.2. Other Conferences

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- Trevisan, D., Vanderdonckt, J., Macq, B., *Computer Vision Guidance in Medical Applications*, Proc. of 18th Brazilian Symposium on Computer Graphics and Image Processing SIBGRAPI'2005 (Natal, 9-12 Oct.2005), IEEE Computer Society Press, Los Alamitos, 2005.

4. Other publications

4.1. Working Papers

ACHBANY Y.

A Multi-Agent Recommendation System Based on the Sharing of Knowledge Owned by Communities

Youssef Achbany*, Tai Nguyen*, Stéphane Faulkner, Manuel Kolp*, Yves Wautelet*

ABSTRACT.

To find information of quality from multiple heterogeneous sources is increasingly difficult. This problem finds its origin in the fast growth of the number of information available. The various formats used to store the data can also be problematic for the recommendation process. Nevertheless, for a community of people with similar interests, quality of results can be improved exploiting also the experience of the community. This experience can be shared and strengthened by all members of the same community to respond to their expectations by furnishing the best information on a specific topic. We propose an agent-based recommendation system for supporting communities of people in their searching task.

(148/05)

COYETTE A.

An Intelligent Tool for Sketching USIXML User Interfaces

Adrien Coyette, Stéphane Faulkner, Manuel Kolp, Quentin Limbourg, Jean Vanderdonckt,

ABSTRACT

During these last years, many researchers have proposed new alternatives for early interface design based on hand-sketch. But these new alternatives seem to be dedicated to obsolescence as they only offer the possibility to generate user interfaces for a single platform in a unique language. Indeed, in a context where the number of computing-platforms and system environments is exploding, new alternatives should be considered. This paper presents an innovating alternative with SketchiXML, a multi-agent application able to handle several kinds of hand-drawn sources as input, and to provide the corresponding specification in USIXML (USer Interface eXtensible Markup Language), a platform-independent user interface description language.

(114/04)

Computer Assisted Sketching for the Early Stages of User Interface Design

Adrien Coyette and Jean Vanderdonckt,

ABSTRACT

Sketching activities are widely adopted during early design phases of user interface development to convey informal specifications of the interface presentation and dialog. Designers or even end users can sketch some or all of the future interface they want. With the ever increasing availability of different computing platforms, a need arises to continuously sup-

port sketching across these platforms with their various programming languages, interface development environments and operating systems. To address needs along these dimensions, which pose new challenges to user interface sketching tools, SketchiXML is a multi-platform multi-agent interactive application that enable designers and end users to sketch user interfaces with different levels of details and support for different contexts of use. The results of the sketching are then analyzed to produce interface specifications independently of any context, including user and platform. These specifications are exploited to progressively produce one or several interfaces, for one or many users, platforms, and environments

(136/05)

FOUSS F.

Web Recommendation System Based On A Markov-Chain Model

Francois Fouss, Stephane Faulkner, Manuel Kolp, Alain Pirotte, Marco Saerens

ABSTRACT

This work presents some general procedures for computing dissimilarities between nodes of a weighted, undirected, graph. It is based on a Markov-chain model of random walk through the graph. This method is applied on the architecture of a Multi Agent System (MAS), in which each agent can be considered as a node and each interaction between two agents as a link. The model assigns transition probabilities to the links between agents, so that a random walker can jump from agent to agent. A quantity, called the average first-passage time, computes the average number of steps needed by a random walker for reaching agent $??$ for the first time, when starting from agent $_$. A closely related quantity, called the average commute time, provides a distance measure between any pair of agents. Yet another quantity of interest, closely related to the average commute time, is the pseudoinverse of the Laplacian matrix of the graph, which represents a similarity measure between the nodes of the graph. These quantities, representing dissimilarities (similarities) between any two agents, have the nice property of decreasing (increasing) when the number of paths connecting two agents increases and when the “length” of any path decreases. The model is applied on a collaborative filtering task where suggestions are made about which movies people should watch based upon what they watched in the past. For the experiments, we build a MAS architecture and we instantiated the agents belief-set from a real movie database. Experimental results show that the Laplacian pseudo inverse based similarity outperforms all the other methods.

(123/04)

The Principal Components Analysis Of A Graph, And Its Relationships To Spectral Clustering

Marco Saerens, Francois Fouss, Luh Yen & Pierre Dupont

ABSTRACT

This work presents a novel procedure for computing (1) distances between nodes of a weighted, undirected, graph, called the Euclidean Commute Time Distance (ECTD), and (2) a subspace projection of the nodes of the graph that preserves as much variance as possible, in terms of the ECTD – a principal components analysis of the graph. It is based on a Markov-

chain model of random walk through the graph. The model assigns transition probabilities to the links between nodes, so that a random walker can jump from node to node. A quantity, called the average commute time, computes the average time taken by a random walker for reaching node j for the first time when starting from node i , and coming back to node i . The square root of this quantity, the ECTD, is a distance measure between any two nodes, and has the nice property of decreasing when the number of paths connecting two nodes increases and when the “length” of any path decreases. The ECTD can be computed from the pseudoinverse of the Laplacian matrix of the graph, which is a kernel. We finally define the Principal Components Analysis (PCA) of a graph as the subspace projection that preserves as much variance as possible, in terms of the ECTD. This graph PCA has some interesting links with spectral graph theory, in particular spectral clustering.

(124/04)

Hits Is Pca

Marco Saerens & Francois Fouss,

ABSTRACT

In this short paper, we show that Kleinberg’s hubs and authorities model (HITS) is simply Principal Components Analysis (PCA – maybe the most widely used multivariate statistical analysis method), albeit without centering, applied to the adjacency matrix of the graph of web pages. In addition to providing a new interpretation for HITS, this result suggests to rely on existing work, already published in the multivariate statistical analysis literature (extensions of PCA), in order to design new web pages ranking procedures.

(125/04)

KOLP M.

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ABSTRACT

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(114/04)

Web Recommendation System Based On A Markov-Chain Model

Francois Fouss, Stephane Faulkner, Manuel Kolp, Alain Pirote, Marco Saerens

ABSTRACT

This work presents some general procedures for computing dissimilarities between nodes of a weighted, undirected, graph. It is based on a Markov-chain model of random walk through the graph. This method is applied on the architecture of a Multi Agent System (MAS), in which each agent can be considered as a node and each interaction between two agents as a link. The model assigns transition probabilities to the links between agents, so that a random walker can jump from agent to agent. A quantity, called the average first-passage time, computes the average number of steps needed by a random walker for reaching agent k for the first time, when starting from agent i . A closely related quantity, called the average commute time, provides a distance measure between any pair of agents. Yet another quantity of interest, closely related to the average commute time, is the pseudoinverse of the Laplacian matrix of the graph, which represents a similarity measure between the nodes of the graph. These quantities, representing dissimilarities (similarities) between any two agents, have the nice property of decreasing (increasing) when the number of paths connecting two agents increases and when the “length” of any path decreases. The model is applied on a collaborative filtering task where suggestions are made about which movies people should watch based upon what they watched in the past. For the experiments, we build a MAS architecture and we instantiated the agents belief-set from a real movie database. Experimental results show that the Laplacian pseudo inverse based similarity outperforms all the other methods.

(123/04)

A Goal-Oriented Framework For Business Modeling

Ivan Jureta*, Manuel Kolp*, Stéphane Faulkner+, Yves Wautelet*

ABSTRACT

This paper proposes a modeling framework that provides rigorous concepts for conducting early organizational requirements analysis. The aim is to allow business analysts to produce an organizational model that precisely captures the knowledge of an organization and of its business processes. To this end, the framework offers a conceptual meta-model that identifies constructs that enable capturing the intrinsic characteristics of an organization setting for a corporate information system-to-be. The approach allows the analyst to have a holistic perspective integrating human and organizational aspects to gain better understanding of business system inner and outer modelling issues. The framework takes roots in both management theory and requirements analysis. It helps bridging the gap between enterprise and requirements models proposing an integrated vision, comprehensive and expressive to both managers and software (requirements) analysts.

(126/04)

On-line Bidding PatternsIvan Jureta¹, Manuel Kolp¹, Stéphane Faulkner² and T. Tung Do¹**ABSTRACT**

Today high volume of goods and services is being traded using online auction systems. The growth in size and complexity of architectures to support online auctions requires the use of distributed and cooperative software techniques. In this context, the agent software de-

velopment paradigm seems appropriate both for their modelling, development and implementation. This paper proposes an agent-oriented patterns analysis of best practices for online auction. The patterns are intended to help both IT managers and software engineers during the requirement specification of an on-line auction system while integrating benefits of agent software engineering.

(130/05)

An agent-oriented architecture for peer-to-peer information integration system

Tai Nguyen, Manuel Kolp

ABSTRACT

Peer-to-peer (P2P) computing facilitates the sharing of computer resources and services by direct exchange between systems. Nowadays, information integration is forced to build up open systems able to cope with distributed, heterogeneous, and dynamic information issues. P2P can potentially provide a more open integration that involves all participants on the network. Multi-Agent Systems (MAS) architectures are gaining popularity for building open, distributed, and evolving software required by such systems. They tend to be open and dynamic in the sense they exist in a changing organizational and operational environment where new components can be added, modified or removed at any time like the heterogeneous sources in a P2P network. This paper presents an agent-oriented P2P architecture, based on the Gnutella protocol, designed for information integration. Our system applies a multi-criteria search engine to increase efficiency of the P2P search as well as the integration of information.

(147/05)

NGUYEN D.

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(147/05)

PIROTTE A.

Web Recommendation System Based On A Markov-Chain Model

Francois Fouss, Stephane Faulkner, Manuel Kolp, Alain Pirotte, Marco Saerens

ABSTRACT

This work presents some general procedures for computing dissimilarities between nodes of a weighted, undirected, graph. It is based on a Markov-chain model of random walk through the graph. This method is applied on the architecture of a Multi Agent System (MAS), in which each agent can be considered as a node and each interaction between two agents as a link. The model assigns transition probabilities to the links between agents, so that a random walker can jump from agent to agent. A quantity, called the average first-passage time, computes the average number of steps needed by a random walker for reaching agent j for the first time, when starting from agent i . A closely related quantity, called the average commute time, provides a distance measure between any pair of agents. Yet another quantity of interest, closely related to the average commute time, is the pseudoinverse of the Laplacian matrix of the graph, which represents a similarity measure between the nodes of the graph. These quantities, representing dissimilarities (similarities) between any two agents, have the nice property of decreasing (increasing) when the number of paths connecting two agents increases and when the “length” of any path decreases. The model is applied on a collaborative filtering task where suggestions are made about which movies people should watch based upon what they watched in the past. For the experiments, we build a MAS architecture and we instantiated the agents belief-set from a real movie database. Experimental results show that the Laplacian pseudo inverse based similarity outperforms all the other methods.

• Keywords: Collaborative Filtering, Markov Chains, Multi Agent System

(123/04)

SAERENS M.*Web Recommendation System Based On A Markov-Chain Model*

Francois Fouss, Stephane Faulkner, Manuel Kolp, Alain Pirotte, Marco Saerens

ABSTRACT

This work presents some general procedures for computing dissimilarities between nodes of a weighted, undirected, graph. It is based on a Markov-chain model of random walk through the graph. This method is applied on the architecture of a Multi Agent System (MAS), in which each agent can be considered as a node and each interaction between two agents as a link. The model assigns transition probabilities to the links between agents, so that a random walker can jump from agent to agent. A quantity, called the average first-passage time, computes the average number of steps needed by a random walker for reaching agent k for the first time, when starting from agent i . A closely related quantity, called the average commute time, provides a distance measure between any pair of agents. Yet another quantity of interest, closely related to the average commute time, is the pseudoinverse of the Laplacian matrix of the graph, which represents a similarity measure between the nodes of the graph. These quantities, representing dissimilarities (similarities) between any two agents, have the nice property of decreasing (increasing) when the number of paths connecting two agents increases and when the “length” of any path decreases. The model is applied on a collaborative filtering task where suggestions are made about which movies people should watch based upon what they watched in the past. For the experiments, we build a MAS architecture and we instantiated the agents belief-set from a real movie database. Experimental results show that the Laplacian pseudo inverse based similarity outperforms all the other methods.

(123/04)

The Principal Components Analysis Of A Graph, And Its Relationships To Spectral Clustering

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ABSTRACT

This work presents a novel procedure for computing (1) distances between nodes of a weighted, undirected, graph, called the Euclidean Commute Time Distance (ECTD), and (2) a subspace projection of the nodes of the graph that preserves as much variance as possible, in terms of the ECTD – a principal components analysis of the graph. It is based on a Markov-chain model of random walk through the graph. The model assigns transition probabilities to the links between nodes, so that a random walker can jump from node to node. A quantity, called the average commute time, computes the average time taken by a random walker for reaching node j for the first time when starting from node i , and coming back to node i . The square root of this quantity, the ECTD, is a distance measure between any two nodes, and has the nice property of decreasing when the number of paths connecting two nodes increases and when the “length” of any path decreases. The ECTD can be computed from the pseudoinverse of the Laplacian matrix of the graph, which is a kernel. We finally define the Principal Components Analysis (PCA) of a graph as the subspace projection that preserves as much variance as possible, in terms of the ECTD. This graph PCA has some interesting links with spectral graph theory, in particular spectral clustering.

(124/04)

Hits Is PCA

Marco Saerens & Francois Fouss,

ABSTRACT

In this short paper, we show that Kleinberg’s hubs and authorities model (HITS) is simply Principal Components Analysis (PCA – maybe the most widely used multivariate statistical analysis method), albeit without centering, applied to the adjacency matrix of the graph of web pages. In addition to providing a new interpretation for HITS, this result suggests to rely on existing work, already published in the multivariate statistical analysis literature (extensions of PCA), in order to design new web pages ranking procedures.

(125/04)

VANDERDONCKT J.

An Intelligent Tool for Sketching USIXML User Interfaces

Adrien Coyette, Stéphane Faulkner, Manuel Kolp, Quentin Limbourg, Jean Vanderdonckt,

ABSTRACT

During these last years, many researchers have proposed new alternatives for early interface design based on hand-sketch. But these new alternatives seem to be dedicated to obsolescence as they only offer the possibility to generate user interfaces for a single platform in a unique language. Indeed, in a context where the number of computing-platforms and system environments is exploding, new alternatives should be considered. This paper presents an innovating alternative with SketchiXML, a multi-agent application able to handle several kinds of hand-drawn sources as input, and to provide the corresponding specification in

USIXML (User Interface eXtensible Markup Language), a platform-independent user interface description language.

- ACM Classification Keywords:

D.2.1 [Software Engineering]: Requirements/Specifications – elicitation methods (e.g., rapid prototyping, interviews, JAD). D.2.2 [Software Engineering]: Design Tools and Techniques – user interfaces. H.5.2 [Information Interfaces and Presentation]: User Interfaces – Multi-agents, Prototyping, Graphical User Interfaces (GUI). I.3.6 [Computer Graphics]: Methodology and Techniques – interaction techniques.

- General terms: Design, Languages, Human Factors.

- Author Keywords:

Development processes, multi-platform, multi-path development, user interface description language, multi-agent architecture, BDI, SKwyRL, interface sketching, user interface engineering.

(114/04)

Towards Virtualization of User Interfaces based on UsiXML

José Pascual Molina Massó^{1,2}, Jean Vanderdonckt², Francisco Montero Simarro^{1,2}, Pascual González

ABSTRACT

A model-based approach is presented for structuring a development process of virtual user interfaces based on UsiXML, a XML-compliant User Interface Description Language. UsiXML provides a Concrete User Interface description that remains independent from any toolkit, whether graphical or virtual. To support the rendering of this description in a virtual world, two toolkits have been developed: for VRML97 and X3D. The user interface description can be edited within an appropriate graphical editor, in 2D for instance, and leads to 2D or 3D rendering or an automated generation of a 2D graphical user interface in Java or a 3D virtual user interface in VRML97 or X3D, for both presentation and behaviour parts. When any element involved in the Concrete User Interface changes, the corresponding virtual user interface changes accordingly, thus reducing development time and complexity. In this way, a virtual user interface can be produced with the advantage of raising the level of abstraction with respect to any language. This paper focuses on the 3D user interfaces.

CR Categories: D.2.2 [Software Engineering]: Design Tools and Techniques – User interfaces. I.3.6 [Computer Graphics]: Methodology and Techniques – Interaction techniques. I.3.7 [Computer Graphics]: Three-Dimensional Graphics and Realism – Interaction techniques. H.5.1 [Information Interfaces and Presentation]: Multimedia Information Systems – Artificial, augmented, and virtual realities. H.5.2 [Information Interfaces and Presentation]: User Interfaces – Graphical user interfaces, input devices and strategies, interaction styles, user-centered design Keywords: abstract user interface, concrete user interface, domain model, graphical user interface, task model, user interface, User Interface Description Language, UsiXML, virtual user interface, virtualization, XML.

(129/05)

Computer Assisted Sketching for the Early Stages of User Interface Design

Adrien Coyette and Jean Vanderdoncktc,

ABSTRACT.

Sketching activities are widely adopted during early design phases of user interface development to convey informal specifications of the interface presentation and dialog. Designers or even end users can sketch some or all of the future interface they want. With the ever increasing availability of different computing platforms, a need arises to continuously support sketching across these platforms with their various programming languages, interface development environments and operating systems. To address needs along these dimensions, which pose new challenges to user interface sketching tools, SketchiXML is a multi-platform multi-agent interactive application that enable designers and end users to sketch user interfaces with different levels of details and support for different contexts of use. The results of the sketching are then analyzed to produce interface specifications independently of any context, including user and platform. These specifications are exploited to progressively produce one or several interfaces, for one or many users, platforms, and environments.

(136/05)

Teh Amouh, Monica Gemo, Benoît Macq, Senior Member, IEEE, Jean Vanderdoncktc, Member, IEEE,

Abdul Wahed El Gariani, Marc Reynaert, Lambert Stamatakis, Frédéric Thys

Versatile Clinical Information System Design for Emergency Departments

(141/05)

YEN L.

The Principal Components Analysis Of A Graph, And Its Relationships To Spectral Clustering

Marco Saerens, Francois Fouss, Luh Yen & Pierre Dupont

ABSTRACT

This work presents a novel procedure for computing (1) distances between nodes of a weighted, undirected, graph, called the Euclidean Commute Time Distance (ECTD), and (2) a subspace projection of the nodes of the graph that preserves as much variance as possible, in terms of the ECTD – a principal components analysis of the graph. It is based on a Markov-chain model of random walk through the graph. The model assigns transition probabilities to the links between nodes, so that a random walker can jump from node to node. A quantity, called the average commute time, computes the average time taken by a random walker for reaching node j for the first time when starting from node i , and coming back to node i . The square root of this quantity, the ECTD, is a distance measure between any two nodes, and has the nice property of decreasing when the number of paths connecting two nodes increases and when the “length” of any path decreases. The ECTD can be computed from the pseudoinverse of the Laplacian matrix of the graph, which is a kernel. We finally define the Principal Components Analysis (PCA) of a graph as the subspace projection that preserves as much variance as possible, in terms of the ECTD. This graph PCA has some interesting links with spectral graph theory, in particular spectral clustering.

(124/04)

4.2. The Doctoral Program

KOLP M.

Doctoral Dissertations

- Quentin Limbourg, *Multi-Path Development of User Interfaces*, IAG School of Management, University of Louvain, November, 2004
- Tung Do: *A Social Patterns Framework for Designing Multi-agent Architectures for End-Users* – july 2005

On-going research projects

- Youssef Achbany : *Development of a Multi Agent Knowledge Sharing Platform for E-Business*
- Adrien Coyette: *SketchiXML: a Design Process for Sketching User Interfaces*
- Tai Nguyen : *An Organizational Multi-Agent Architecture for Heterogeneous Information Sources Integration*
- Yves Wautelet : *Multi-Agent Iterative Developement for Managing Enterprise Information Systems*
- Hoang Thi Thuy Hang: *Development of a NFR Framework for Multi-Agent Architectures*

HOANG T.

Présentation “Avant-Projet”	11 juin 2004.
Sujet de la recherche :	<i>Development of a non-functional Framework for Multi-Agent Architectures</i>
Promoteur :	Manuel Kolp et Alain Pirotte.

5. International research activities

5.1. Workshops and Conferences

KOLP M.

- AOIS 2005, 8th International Bi-Conference Workshop on Agent Oriented Information Systems, July & November, 2005, Utrecht, The Netherlands & Klagenfurt, Austria
- VLDB 2004, 30th International Conference on Very Large Databases, 1-5 Septembre 2004, Toronto, Canada.

SAERENS M.

- FNRS contact group on *Machine learning* (one-day workshop).

VANDERDONCKT J.

- Vanderdonckt, J., Law, E. L-C., Hvannberg, E.T., International COST294 Workshop on User Interface Quality Models (UIQM'05) in conjunction with INTERACT'05, 12th - 13th September 2005, Rome, Italy.

5.2. Academic Visits (CEMIT)

KOLP M.

Visits to Other Institution

- Wellington Institute of Technology, New Zealand, September 2004
- Tshingua University, Beijing, China, December 2004
- Florida International University, Miami, USA, May 2005

Regular Visits to Other Institutions

- University of Trento, Department of Computer Science, Italy

VANDERDONCKT J.

Visits to Other Institutions

- SAP Munich
- University of Prague, Hongrie

Regular Visits to Other Institutions

- Université Joseph Fourier (Grenoble I), France
- Polytechnic University of Valencia, Espagne
- National Center for Research & Development in Informatics (ICI), Bucarest, Roumanie
- CNR, ISTI, Pise, Italie
- Thalès Research, Paris, France

6. Research Collaborations

6.1. Research Contracts (CEMIT)

KOLP M.

SKwyRL: Socio-Intentional ArChitecture for Knowledge Systems and Requirements ELicitation

Financial Support : FSR-UCL, CGRI-AUF

IAG Principal Investigator : Manuel Kolp

1 researcher Full Time for 4 years

Short description :

The project aims at identifying and developing a collection of specific social and intentional architecture patterns for designing agent-based systems. It proposes to use human organizations as a metaphor to suggest a set of generic patterns for agent systems, with a preference for organizational design theories over social emergence theories. Patterns from organization theory describe the internal structure of organizations while theories for strategic alliances model the external collaboration of independent organizations that pursue agreed goals. Design parameters such as task assignment, standardization, supervision, management control, and strategy definition will be used to handle situational and contingency factors. The research will formalize these social and intentional patterns, and characterize precisely how a particular model can be seen as an instance of a pattern. The patterns will be compared with software architecture patterns such as pipes-and-filters, event-based, layered, control loop, and related to lower-level (software) components, ports, connectors, interfaces, libraries and configurations. The project will also propose desirable qualities of social structures such as adaptivity, ease of coordination, predictability, and fault tolerance, and define methods for evaluating a given social structure with respect to a set of qualities.

Object-oriented modeling and development of production databases for steel manufacturing

Financial Support: Carsid SA, Walloon Region

IAG Principal Investigators : Manuel Kolp

1 researcher Full Time for 4 years

Short description :

The project models part of the production databases of the “Coke-Fonte-Energie” Operation Center of CARSID and their applications in order to progressively re-engineer them. Such databases are particular in the sense they manage synchronous data: thousands of variables are received every minute from numerous sensors all around the manufactories. The project also proposes the development of a master database that could be parameterized for the different CARSID manufactories.

Development of an information retrieval and data integration tool for e-business applications

Financial Support : FIRST Entreprise contract (Région Wallonne) in partnership with CITOBIS.A.

IAG Principal Investigators : Manuel Kolp

Short description :

The project consists in analyzing and developing a multi-agent platform based on social design patterns (broker, mediator, wrapper, monitor, matchmaker, ...) to propose information retrieval and data integration services for e-business applications. The platform follows an organizational architecture to integrate the patterns. The implementation is realized in a generic way allowing software components reuse, specifically within the JACK agent programming environment. The proposed approach follows BDI (Belief-Desire-Intention) cognitive specifications and FIPA (Foundation for Intelligent Physical Agents) recommendations.

A Multi-Agent Recommendation System Based for Sharing of Knowledge

Financial Support: FIRST Entreprise contract (Région Wallonne), Denali S.A.

Principal Investigators : Manuel Kolp, Marco Saerens

Short description :

This project proposes an agent-based recommendation system for supporting communities of people in their searching task. To find information of quality from multiple heterogeneous sources is increasingly difficult. This problem finds its origin in the fast growth of the number of information available. The various formats used to store the data can also be problematic for the recommendation process. Nevertheless, for a community of people with similar interests, quality of results can be improved exploiting also the experience of the community. This experience can be shared and strengthened by all members of the same community to respond to their expectations by furnishing the best information on a specific topic.

SAERENS M.

ON-GOING RESEARCH PROJECTS

Network Analysis, Clustering and Relationship mining (NACRE)

Financial Support : Région de Bruxelles-capitale (2005-2006)

Principal Investigator : Marco Saerens

Participating company : VADIS Consulting S.A.

Funding : about 250 000 Euro

Researchers : 1 person for two years

Short description :

This project is funded by the “Region de Bruxelles-Capitale” and has been introduced in partnership with “VADIS Consulting”, a data mining company closely related to “Wegener”. It allowed to hire one researcher for two years.

This applied research project aims to develop some novel statistical analysis and visualization methods for large, weighted, graphs. In particular, we are interested in the analysis of telecommunication networks, viewing the network of mobile phone calls as a weighted graph. The objective is to identify dense clusters of users (communities), which are highly connected, or “central persons” in the network. Identifying dense clusters or central users is important for several reasons; for instance in order to be able to forecast “churn”.

“Collaborative recommendation” project

Financial Support :	FIRST Enterprise contract – Région Wallonne(2004-2005)
Principal Investigator :	Marco Saerens
Participating company :	CITOBİ S.A.
Funding :	about 150 000 Euro
Researchers :	1 person for two years

Short description :

This project is funded by the “Region wallonne” and has been introduced in partnership with “CITOBİ”, an internet marketing automation and CRM company. It allowed to hire one researcher for two years.

This applied research project aims to develop some new collaborative recommendation methods, based mainly on new notions of distances on a graph. Collaborative recommendation models are mainly used to recommend items to users, based on their previous purchases (as in amazon.com). These novel concepts of distances are based on models of random walk on a graph (Markov models) and on the concept of “stochastic complementation”, that account for all the possible paths between two nodes (and not only the shortest one as for the geodesic distance). These dissimilarities are then used in order to compute the proximity between elements of different tables of a relational database. An industrial application, with the collaboration of CITOBİ, is under development.

A Multi-Agent Recommendation System Based for Sharing of Knowledge

Financial Support:	FIRST Enterprise contract – Région Wallonne(2005-2006)
Principal Investigators :	Manuel Kolp, Marco Saerens
Funding :	about 250 000 Euro
Participating company :	DENALI S.A.
Researchers :	1 person for two years

Short description :

This applied research project proposes an agent-based recommendation system for supporting communities of people in their searching task. To find information of quality from multiple heterogeneous sources is increasingly difficult. This problem finds its origin in the fast growth of the number of information available. The various formats used to store the data can also be problematic for the recommendation process. Nevertheless, for a community of people with similar interests, quality of results can be improved exploiting also the experience of the community. This experience can be shared and strengthened by all members of the same community to respond to their expectations by furnishing the best information on a specific topic.

Analysis of Network of Criminals

Financial Support:	Belgian Federal Police (2004-2005)
Principal Investigators :	Marie-Paule Kestemont, Marco Saerens
Funding :	about 20 000 Euro

Participating company : Belgian Federal Police

Researchers : 0

Short description :

This applied research project aims to analyse networks of criminals based on recently developed “social network” techniques. In particular, we are interested in the analysis of criminal data, viewing the network as a weighted graph. : two criminals are linked if they committed a “crime” (understood in a broad sense) together. The objective is to identify dense clusters of criminals (communities), which are highly connected, or “central persons” in the network. Detecting dense clusters or central users is important for several reasons; for instance it allows to identify communities operating together.

VANDERDONCKT J.

Name of the contract : Harmonia, Inc.

Financial Support : contrat direct

IAG Principal Investigator : Jean Vanderdonckt

Research Assistants : Quentin Limbourg, Adrien Coyette

Résumé du sujet :

Ce contrat a pour objectif de donner une consultance relative à la définition et l'utilisation d'un langage de spécification d'interfaces homme-machine pour des contextes d'utilisation différents.

Name of the contract : CARE Tech.

Financial Support : bourse de post-doctorat

IAG Principal Investigator : Jean Vanderdonckt

Research Assistants : Quentin Limbourg (bénéficiaire)

Résumé du sujet :

Ce contrat a pour objectif de définir un modèle de présentation concret, abstrait, en vue de leur incorporation dans la suite logicielle Oliva Nova© Model Execution.

ON-GOING RESEARCH PROJECTS

- 01/01/2005 – : External partner of the FWO research project “Ambient Intelligence” by EDM-LUC (Limburgs Universitair Centrum).
- 01/10/2004 – 30/9/2006 : MULPLEX research project (Automated generation of plastic multi-channel inter-faces for on-line courses and exercises based on a learner model), “First Objectif 1” research programme (Walloon Region, Convention n°EP1A320501 R054F/415737)
- 01/01/2005 – : European COST Action MAUSE “Towards The Maturation of IT Usability Evaluation” (European Commission, COST Action n°294)
- 01/11/2003 – 30/10/2006 : REQUEST research project (Rapid prototyping of e-commerce applications), “WIST” Wallonie Information Science & Technology research program (Walloon Region, Convention n°315592)
- 01/11/2003 – 30/10/2006 : DESTINE research project (Design & Evaluation Studio For

Intent-Based Ergonomic Web Sites), “WIST” Wallonie Information Science & Technology research program (Walloon Region, Convention n°315577)

- 01/12/2003 – 31/11/2006: The SIMILAR network of excellence (The European research taskforce creating human-machine interfaces SIMILAR to human-human communication), Sixth Framework Program (European Commission, FP6-IST1-2003-507609) – www.similar.cc, www.openinterface.org
- 01/9/2003 – 31/8/2004 : “Plasticité des Systèmes Interactifs” Research Action (CNRS-France, G. Calvary & M. Riveill)

RESEARCH AT THE
CENTRE OF RESEARCH
IN CHANGE INNOVATION
AND STRATEGY

[CRECIS]

Research at the Centre of Research in Change, Innovation and Strategy (CRECIS)

1. Presentation

The intensification of competition, the opening of markets and the accelerated rate of innovation have radically changed the environment of European companies, whatever their size or activity. Their strategic decisions and their implementation within the company must be constantly revised; if not, they will become rapidly obsolete.

This is the context in which the Centre of Research in Change, Innovation and Strategy (CRECIS) is developing the expertise of the School. The research and executive education activities of the centre are focused on the capacity of European firm-level strategy to deal with strategic and organizational dynamics issues, generate innovation and manage change.

Insights from the research may have high impact if detected organizational strategies can be translated into long-lasting competitive advantages.

PARTICIPANTS

Belleflamme P.,	Janssen F.,
Cœurderoy R.,	Leonard E.,
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Dulac T.
Duplat V.,
Lardinois J.,
Lejeune Ch.,
Neysen N.,
Taskin L.

2. Scientific publications

2.1. Articles published in Scientific Journals

BELLEFLAMME P.

- BELLEFLAMME P., BLOCH F., *Market sharing agreements and collusive networks*, International Economic Review, 45, (2), 2004, p. 387-411.
- BLOCH F., BELLEFLAMME P., *Learning and Experimentation about Product Differentiation: A Synthesis*, International Journal of Industrial Organization.
- BELLEFLAMME P., *Versioning in the information economy: Theory and applications*, CESifo Economic Studies, 51, 2005, p. 329-358.

CŒURDEROY R.

- CŒURDEROY R., *Internationalisation des entreprises en démarrage et systèmes juridiques: une analyse institutionnelle des choix de localisation*. Management International, 9, p.51-64.
- *Management stratégique et structure financière des entreprises : la question clef de l'innovation dans la décision d'ouverture en bourse du capital*. Gestion2000, 21(4), p.75-86.
- CŒURDEROY R., *Combining Institutional and Contractual Mechanisms to Control Transactional Hazards Related to Transfers of Technology : an Empirical Analysis of Supervision Provisions in Technology Licensing Agreements*, International Journal of the Economics of Business, 11(3), p.425-446 (with E. Brousseau)

DE MOERLOOSE CH.

- DE MOERLOOSE Ch., ANTIOCO M., LINDGREEN A. PALMER R. (2005) *Information kiosks: the case of Belgian retail sector*. Retail and Distribution Management. 33(6-7). Pp. 472-490.

GAILLY B.

- GAILLY B., *Les concours de plan d'affaires comme prédicteurs de réussite entrepreneuriale*, Gestion 2000, 22, (S), 2004, p. 25-37.

JANSSEN F.

- JANSSEN, F. (2005) *La conceptualisation de la croissance : L'emploi et le chiffre d'affaire sont-ils des représentations interchangeables d'un même phénomène ?* Gestion 2000, à paraître.

LEONARD E.

- LEONARD, E. (2005) *Governance and concerted regulation of employment in Europe*, European Journal of Industrial Relations, vol. 11 n° 3, pp. 307-326.
- LEONARD, E., REMAN, P. (2004) *'Jobs, jobs, jobs', Ambivalence of concerted change for employment in Europe*, Transfer, vol. 10, N° 4, pp. 552-568.
- LEONARD, E. (2004) *Négociations sur l'emploi en Europe, compromis et enjeux*, Relations Industrielles/Industrial Relations, vol. 59, n°3, pp. 545-568.

SCHUILING

- Schuiling and Kapferer (2004), *Real differences between local and international brands*, Journal of International Marketing, Vol 12, N° 4. Reçu le prix du meilleur article paru dans cette revue en 2004 “2004 S. Tamer Cavusgil Award” et décerné par l’Association Américaine du Marketing
- Lambin and Schuiling (2004), *How to compete in the new global environment*, Symphonia-Emerging Issues in Management, ISTEI- Istituto di Economia d’Impresa, Università degli Studi di Milano-Bicocca.
- Schuiling and Moss (2004), *How different is Branding in the pharmaceutical industry versus Fast Moving Consumer Goods?*, Journal of Brand Management, Special issue in Business to Business Branding, Volume 11, Number 5.
- Moss and Schuiling (2004), *A brand logic for pharma – A possible strategy based on FMCG experience*, International Journal of Medical Marketing, Volume 4, Number 1.

TASKIN L.

- DEVOS V., TASKIN L., *Gestion par les compétences et nouvelles formes d’organisation du temps et de l’espace*, Revue Française de Gestion, 31, (156), 2005, p. 93-104.
- TASKIN L., DEVOS V., *Paradoxes from the individualization of human resource management: The case of telework*, Journal of Business Ethics, 62, 2005, p. 13-24.
- TASKIN L., SCHOTS M., *Flexibilité du temps de travail et relation d’emploi*, Economies et Sociétés, XXXIX, (8), 2005, p. 1471-1501

VAS A.

- VAS A., *La vitesse de propagation du changement au sein des grandes organisations*, Revue Française de Gestion, 31, (155), 2005, p. 135-151.
- VAS A., *Les processus de changement organisationnel à l’épreuve des faits : Une approche multiparadigmatique*, Management International, 9, (2), 2005, p. 21-36.
- VAS A., INGHAM M., *Organizational change : Open your eyes and use a wide angle lens*, European Business Forum, 16, 2004, p. 60-64.
- VAS A., *Revisiter la résistance au changement aux différents niveaux hiérarchiques : une étude exploratoire*, Gestion 2000, 22, (5), 2005, p. 131-154.
- VAS A., *Introduction au dossier spécial : le changement stratégique dans tous ses états*, Gestion 2000, 22, (5), 2005, p. 19-26.
- VAS A., INGHAM M., *Réorganisation optez pour le grand angle*, Expansion Management Review, 113, 2004, p. 25-32.

2.2. Books

DE MOERLOOSE CH.

- LAMBIN J.J., CHUMPITAZ R., DE MOERLOOSE Ch. (2005) *Marketing stratégique et opérationnel* (6^e édition). Paris, Dunod

DE RONGÉ Y.

- Y. De Rongé et K. Cerrada, *Contrôle de gestion*, Pearson Education, Paris, 2005, 262 p.

DELOBBE N.

- Delobbe, N, Herrbach, O., Mignonac, K, Lacaze, D. (2005). *Comportement organisationnel – vol.1 : contrat psychologique, émotions au travail et socialisation organisationnelle*. Bruxelles : De Boeck.

JANSSEN F.

- CRIJNS H., DECLERCQ D., JANSSEN, F. PIRNAY, F. et SURLEMONT, B., (2004) : *Entrepreneuriat : Etude de cas*, Intersentia, Anvers – Oxford
- CRIJNS H., DECLERCQ D., JANSSEN, F. PIRNAY, F. et SURLEMONT, B., (2004) : *Ondernemen casebook*, Intersentia, Anvers – Oxford

TASKIN L.

- TASKIN L., VENDRAMIN P., *Le télétravail, une vague silencieuse. Les enjeux socio-économiques d'une nouvelle flexibilité.*, Louvain-la-Neuve, PUL, 2004, 114 p, Collection en e-Management, 1, ISBN : 2-930344-62-8.

2.3. Book chapters

BELLEFLAMME P.

- BELLEFLAMME P., *Versioning information goods*, In : Industrial Organization and the Digital Economy, G. Illing and M. Peitz ed(s), Cambridge, MIT Press, 2005.

CŒURDEROY R.

- *Legal Environments and First International Market Entries: Evidence on the Inter-nationalisation of New Technology based Firms in Three European Countries*, in Spithoven A. and Teirlinck P. (editors), Beyond Borders: Internationalisation of R&D, Chapter 6, Elsevier (with Gordon Murray).

DELOBBE N.

- Dulac, T. & Delobbe, N. (2005). *Relations entre les modes de gestion du capital humain, la relation d'emploi et les attitudes et comportements au travail*. In: de Nanteuil-Miribel M. de Nanteuil-Miribel & A. El Akremi. *La société flexible*, pp. 179-203. Editions Erès

DION D.

- LEONARD, E. et DION D. (2005) *Quelle régulation de la flexibilité, entre global et local ?*, in de Nanteuil-Miribel M. et El Akremi A. (eds), *La société flexible. Travail, emploi, organisation en débat*, Ramonville Saint-Agne: ERES, p. 337-358

JANSSEN F.

- JANSSEN, F. et EECHOUT, V. (2005) *L'interdisciplinarité dans les programmes de formation à l'entrepreneuriat*, in Schmitt, C. JANSSEN, F. et EECHOUT, V. (2005) *Université et Entrepreneuriat, Une relation en quête de sens*, L'harmattan, Paris, 219-249

LEONARD E.

- LEONARD, E., SPINEUX, A. (2005) *Travail intérimaire: les nouveaux compromis du marché du travail*, in DENYS, J. (ed.) *Plus est en vous, Un demi-siècle de travail intérimaire en Belgique*, Tiel: Randstad et Editions Lannoo (pp. 207-219). Egalement disponible en néerlandais.
- DION, D., LEONARD, E. (2005) *Quelle régulation de la flexibilité, entre global et local?* in EL AKREMI, A., NANTEUIL-MIRIBEL (DE), M. (éds.) *La Société flexible*, Paris: ERES (pp. 337-358).
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SPINEUX A.

- LÉONARD E., SPINEUX A., *Travail intérimaire: Les nouveaux compromis du marché du travail*, In : *Plus est en vous, Un demi siècle de travail intérimaire en Belgique*, Denys, J. ed(s), Tiel, Randstad, Tiel, Lannoo, 2005, p. 207-219

TASKIN L.

- DE NANTEUIL-MIRIBEL M., SCHOTS M., TASKIN L., *Flexibilité et décision: quelles rationalités?*, In : *Flexibilités et performances*, Beaujolin-Bellet R. ed(s), Paris, La Découverte, 2004, ISBN : 2-7071-4323-5, Recherches, p. 91-110.
- TASKIN L., SCHOTS M., *Au-delà des compromis négociés, un rapport au travail remodelé*, In : *La société flexible*, de Nanteuil-Miribel, M. et El Akremi, A. ed(s), Paris, ERES, 2005, p. 321-340.
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VAS A.

- VAS A., INGHAM M., *IBA : une PME à vocation globale*, in Crijns, H., De Clercq, D., Janssen, F., Pirnay, F. et Surlemont, B. (Eds.), *“Entrepreneuriat, Etudes de cas”*, Intersentia, Anvers, 2004

3. Conferences

3.1. Conferences with proceedings

BIGA DIAMBEIDOU M.

- D. François, M. Biga Diambeidou, B. Gailly, V. Wertz, M. Verleysen (2004), *Observer des Trajectoires de 'Start-up' sur des Cartes de Kohonen*, ACSEG 2004, Connectionist Approaches in Economics and Management Sciences, Lille (France), 18-19 November 2004 (in French), pp. 302-307.
- B. Gailly, D. Francois, M. Biga Diambeidou, M. Verleysen, V. Wertz, *The growth trajectories of start-up firms: an exploratory study*, ESU entrepreneurship conference, Twente (The Netherlands), 19-21 September 2004, pp. 1-16.

BRIDOUX F.

- Bridoux F., *Beyond resource imitability: resource imitation and competitive environment*. Strategic Management Society, 25th Annual International Conference, Orlando, USA, October 2005.
- Bridoux F., Taskin L., *Telework : Challenge to Knowledge Creation and Transfer in a Knowledge- and Technology-based Century* Annual Meeting of the Academy of Management, BPS division, Honolulu, Hawaii, August 2005.
- Bridoux F., *A resource-based approach to performance and competition : An overview of the connections between resources and competition*. Strategic Management Socciety, 24th Annual Internation Conference, Puerto Rico, USA, October 2004.

DELOBBE N.

- Dulac T., Delobbe N., Saffery O. (2005) *The impact of selection and socialization experiences on newcomer's evaluation of their psychological contract*. Congress of the European Association of Work and Organizational Psychology, Istanbul, May 2005
- Delobbe N., Dulac T. (2005). *Contribution respective des pratiques de sélection/recrutement et des tactiques de socialisation l'adaptation de jeunes recrues*. Congrès de l'Association Française de Gestion des Ressources Humaines. Paris, Septembre 2005

DION D.

- DION D. (2004) *Between local and global: flexibility in MNCs as local adjustment under constraints*, Paper presented at the international conference "Multinationals and the International Diffusion of Organizational Forms and Practices: Convergence and Diversity within Global Economy", IESE Business School, Barcelona, Spain, 15-17 July 2004

GAILLY B.

- GAILLY B., TAYLOR J., *Revisiting the Venture Capital Decision process: Beyond Evaluation Criteria*, Babson Kaufmann Entrepreneurship Research Conference, Glasgow, UK, June 2-5, 2004.
- GAILLY B., FAYOLLE A., *Using the theory of planned behaviour to assess entrepreneurship teachnig programs: A first experimentation*, In : Internationalizing Entrepreneurship

Education and Training Conference Proceeding, Naples, July 4-7, 2004, ISBN : 88-495-0922-7, Luca Iandoli; Mario Raffa ed(s), Edizioni Scientifiche Italiane, 2004

- BIGA DIAMBEIDOU M., FRANCOIS D., GAILLY B., VERLEYSSEN M., WERTZ V., *A Typology of Growth Trajectories of Start-Up Firms*, ERIM expert workshop: Perspectives on the Longitudinal Analysis of New Firm Growth, Erasmus University Rotterdam, The Netherlands, 18-19 May.
- GAILLY B., FAYOLLE A., *Capturing Variations in Attitudes and Intentions: A Longitudinal Study to Assess the Pedagogical Effectiveness of Entrepreneurship Teaching Programmes*, Washington, 15 - 18 June 2005, 2005.

JANSSEN F.

- St-Pierre, J., F. Janssen, P.-A. Julien et C. Therien (2005), *Les facteurs de croissance des PME manufacturières sur les marchés locaux et internationaux*, in AUF, 9èmes Journées scientifiques de l'Agence Universitaire de la Francophonie, Cluj Napoca (Romania), juin
- Janssen, F. et V. Eeckhout (2005), *L'interdisciplinarité dans les programmes universitaires de formation à l'entrepreneuriat*, in 3rd International Finance Conference (IFC): Investments, information technologies, value and control, Hammamet, Tunisia, Mars
- St-Pierre, J., F. Janssen, P.-A. Julien et C. Therien (2005), *Influence du marché et de la clientèle desservis sur les facteurs de croissance des P.M.E. manufacturières*, in CCSBE, Entrepreneurship and economic development: innovation, opportunity and capacity, Proceedings of the 21st CCSBE (Canadian Council for Small Business and Entrepreneurship) Conference, Regina, Saskatchewan, Novembre
- Janssen, F. (2004), *La conceptualisation de la croissance : l'emploi et le chiffre d'affaires sont-ils des critères interchangeables*, in AIREPME., Réalités de la T.P.E. au XXIème siècle, Actes du 7ème congrès international francophone en entrepreneuriat et P.M.E., Université de Montpellier 3, Octobre
- de Briey, V. et F. Janssen (2004), *Les structures d'appui à la création de TPE par des allocataires sociaux : projet de recherche*, in AIREPME., Réalités de la T.P.E. au XXIème siècle, Actes du 7ème congrès international francophone en entrepreneuriat et P.M.E., Université de Montpellier 3, Octobre

LEJEUNE C.

- LEJEUNE C., A. VAS, *Lessons from corporate to academic world : exploring reluctance to change at the university*, presented at EGOS (European Group for Organizational Studies) conference, 1-3 July 2004, Ljubljana, Slovenia

LEONARD E.

- LEONARD, E. (2004) "Everybody at work", *ambivalences in concerted change for employment in Europe*, Paper presented at the 7th European Congress of the International Industrial Relations Association (IIRA), "The future of work in Europe, Market and economic and social cohesion", Estoril, 7-11 septembre 2004.
- LEONARD, E. (2004) *Governance and concerted regulation of employment in Europe*, Paper presented at the conference *Governance issues in shifting industrial and employment relations*, Industrial Relations in Europe Conference (IREC), Utrecht University, the Netherlands, 26-28 August 2004

TASKIN L.

- TASKIN L., BRIDOUX F., *Telework: Challenge to knowledge creation and transfer in a knowledge- and technology-based century*, In : Academy of Management 2005, Honolulu, 5-10/8/2005, 2005.
- TASKIN L., SCHOTS M., *Temporal flexibility and the employment flexibility*, In : 4th International Conference on Critical Management Studies Proceedings, Cambridge, UK, 4-6/7/2005, Willmott, Hugh ed(s), 2005.

VAS A.

- VAS, A., CŒURDEROY R., *Explaining factors affecting the speed of organizational innovation diffusion : a survival model*, Academy of Management, Honolulu, Hawaii, Août 2005.
- VAS, A., *Explorer la vitesse de propagation du changement au sein des grandes organisations*, Conférence Internationale de l'AIMS, Juin 2005.
- VAS, A., BYOSIERE P., *Understanding diffusion of Innovation through the Interaction of Social Networks and Organizational Knowledge*, Hawaai International Conference on International Business, Honolulu, Hawaai, Juin 2004.
- VAS, A., LEJEUNE, C., *Lessons from corporate to academic world : exploring "reluctance to change" in the Bologna process at the university*, 20^{ème} Conférence Internationale de European Group of Organizational Studies (EGOS), Ljubljana, Slovénie, Juillet 2004.
- VAS, A., CŒURDEROY, R., *Dynamique Organisationnelle et diffusion du changement : analyse par modèle de survie de l'introduction d'un système de gestion intégré du travail*, XIV^{ème} Conférence Internationale de l'Association Internationale de Management Stratégique (AIMS), Le Havre, France, Juin 2004

3.2. Other conferences

BELLEFLAMME P.

- Belleflamme P., Picard P., (2004) *Versioning in the information economy: Theory and applications*; Understanding the digital economy, CESifo, Munich.
- Belleflamme P., Picard P., (2004) *Piracy and competition*; CESifo Area Conference on Applied Microeconomics.
- Belleflamme P., Picard P., (2005) *Piracy and competition*; LEA Spring School in Aix en Provence.

CŒURDEROY R.

- *Location choices by hi-tech start-ups*, Innovating Europe, 4th European Forum for Innovative Enterprises, Stuttgart, December 2004.

DELOBBE N.

- Delobbe, N. (2005) *L'entrée dans l'organisation, rôle des facteurs individuels et organisationnels*. Journée d'étude "Accéder un emploi... et le conserver. Effets de quelques variables statutaires et contextuelles sur le processus d'insertion". Université de Bordeaux II. Mars 2005.

JANSSEN F.

- Janssen, F. (2005), *Les déterminants de la croissance des entreprises en Europe et aux USA*, Ministère de l'Economie, des Finances et de l'Industrie, Regards croisés sur l'entreprise, Favoriser la pérennité des entreprises: de la création à la transmission, Paris, Mai
- Janssen, F. (2005), *Les techniques et les structures et d'accompagnement de la création d'entreprise*, 3rd International Finance Conference: Investments, information technologies, value and control, Hammamet, Tunisia, Mars
- Janssen, F. (2004), *Fostering entrepreneurship through education*, Cluster Task Force Entrepreneurship and Education, Louvain-la-Neuve, Novembre
- Janssen, F. (2004), *Entreprendre pour créer sa vie*, CREAVAL, Forum de la création et du financement de l'entreprise, Louvain-la-Neuve, Novembre

TASKIN L.

- Taskin, L., 2005, *Managerial aspects of telework*, Seminar on Telework in Europe, Bruges, Belgium, February 17-18.

VAS A.

- *Les facteurs de propagation du changement au sein des grandes organisations*, "Health Systems Research" de l'unité de Sciences Hospitalières de l'UCL, Louvain en Woluwe, 2004.
- Colloque "Société flexible – Société de services. Quelle Europe sociale pour demain ?", Louvain-la-Neuve, septembre 2005.

4. Other publications

4.1. Working Papers

BRIDOUX F.

- BRIDOUX F., TASKIN L., *Telework: Challenge to knowledge creation and transfer in a knowledge- and technology-based century*, 2005, Working papers IAG, (145/05)
- *A resource-based Approach to Performance and Competition: An Overview of the Connections between Resources and Competition*, Working papers IAG (110/04)

DELOBBE N.

Contribution respective des pratiques de recrutement/sélection et des tactiques de socialisation organisationnelle à l'adaptation des jeunes recrues.

Delobbe N, Tanguy Dulac T.

ABSTRACT

Cette communication étudie en quoi les pratiques de recrutement et de sélection, d'une part, et les dispositifs d'accueil et d'orientation, d'autres part, contribuent à l'adaptation des nouvelles recrues à leur environnement organisationnel. Plus précisément, nous examinons si les canaux informels de recrutement, la précision et la clarté de l'information communiquée aux candidats lors de la procédure de sélection ainsi que l'accès à des sources internes d'informations favorisent cette adaptation parce qu'ils activent un processus d' "anticipation réaliste d'emploi" (Wanous, 1992). En outre, les stratégies de socialisation organisationnelle, telles que modélisées par Van Maanen (1976), sont elles aussi supposées influencer la construction du lien à l'organisation, par les possibilités d'interactions sociales et de recherche active d'information qu'elles offrent aux nouveaux-venus.

Ces hypothèses ont été testées et pour la plupart vérifiées, au moyen d'enquêtes transversales menées sur deux échantillons distincts de jeunes recrues. Le premier échantillon (n=77) est composé de jeunes diplômés d'une école de gestion et appréhende la construction du lien à l'organisation à travers trois variables intermédiaires du processus de socialisation (la clarté du rôle, l'intégration sociale et la connaissance des valeurs organisationnelles) et trois variables résultantes (l'implication organisationnelle, la satisfaction au travail et l'intention de quitter l'entreprise). La seconde étude, menée auprès de 113 recrues issues de 7 entreprises contrastées quant à leurs pratiques de recrutement et de socialisation, appréhende la construction du lien à l'organisation à l'aide du concept de contrat psychologique. Ces résultats contribuent à une meilleure connaissance du rôle joué par les pratiques de GRH dans le processus de socialisation organisationnelle. Leurs implications managériales sont nombreuses et parfois à contre-courant des pratiques de GRH actuelles qui continuent souvent à considérer la relation avec l'employé comme une relation de dépendance plutôt que comme une relation de partenariat. (137/05)

DE RONGE Y.

- Working paper présenté à la Conférence de l'EIASM *Workshop on Performance Measurement and Management Control*, Nice, September 22-23, 2005

- S. Pondeville et Y. De Rongé, The impact of environmental strategy, stakeholders' pressures and external environment on the implementation of environmental management control systems

DION D.

- DION D. (2004) Between local and global: flexibility in MNCs as local adjustment under constraints, Working Paper, IAG, août 2004.
(112/04)

DULAC T.

Tanguy Dulac

- De la formation à l'évaluation du contrat psychologique : Revue de la littérature et perspectives de recherche
(138/05)

DUPLAT V.

- DUPLAT V., 2005, The role of Private and Specialized Institutions in the protection of the Intellectual Property Rights : complement or substitute, ESNIE (European School on New Institutional Economics (Ecole Doctorale), Cargèse, France.

GAILLY B.

*Liquidity constraints, Investment and Ownership
(A Belgian high tech SMEs Panel Data Analysis)*

ABSTRACT

The main objective of this paper is to confront theoretical and empirical results about the determinants of investment decision of Belgian high tech SMEs. Limited research is available regarding this subject, such as the paper of Manigart (2002) on unquoted Belgian companies, and that of Van Cayseele (2002) on Belgian firms as a whole. We therefore believe that there is an interest in developing this subject, which has been extensively addressed in the United States, and to other developed countries by Fazzari, Hubbard and Petersen (1988), Rajan and Zingales (1997, 2000) and Goergen and Renneboog (2001).

In this study, we used an accelerator – sales model to express the relationship between investment and cash-flow. The investment is supposed, in this model, to be an increasing function of sales, but the model does not include the company's future growth opportunities. Thus, a positive correlation between investment and generated liquidity is supposed to highlight of the financing constraints. The results of our study show the existence, for the total sample, of a direct correlation between the generated cash-flows and the level of capital expenditures. The regressions also shows a larger and more significant coefficient in the case of young SMEs comparatively to the oldest ones, which indicates that these young SMEs are more affected by financing constraints.

(113/04)

Internet Banking and SME: an exploratory study

Benoît Gailly et Anne-Joelle Phillipart

(139/05)

JANSSEN F.

- *L'interchangeabilité des critères de conceptualisation de la croissance*: étude empirique, IAG working papers, Université catholique de Louvain, (118/04)
- *The impact of the environment on employment growth in SMEs*, IAG working papers, Université catholique de Louvain, (117/04)
- *Les structures d'appui à la création d'entreprises par des allocataires sociaux : cadres théoriques explicatifs*, IAG working papers, Université catholique de Louvain, (with V. de Brie) (119/04)
- *Influence du marché et de la clientèle desservis sur les facteurs de croissance des PME manufacturières*, IAG working papers, Université catholique de Louvain, (with J. St-Pierre, P.-A. Julien, and C. Therien) (146/05)

SCHUILING I.

Isabelle Schuiling and Jean-Jacques Lambin

Article For Symphonya-Emerging Issues In Management Do Global Brands Benefit From A Unique Worldwide Image ?

(116/04)

Jean-Jacques Lambin and Isabelle Schuiling

How To Compete In The New Global Environment?

Jean-Jacques Lambin and Isabelle Schuiling

(131/05)

TASKIN L.

- Bridoux, F. and Taskin, L., 2005, *Telework: Challenge to knowledge creation and transfer in a knowledge and technology-based century*, UCL, IAG., (145/05)

VAS A.

Revisiting resistance to change at the university: an interpretative approach, (avec C. Lejeune), IAG working paper, Louvain-La-Neuve, 2004.

ABSTRACT

Generally perceived as a negative phenomenon to overcome, resistance to change (RTC) has been discussed widely in the organization literature. However, opting for a manichean view of RTC seems to be simplistic. In this paper we focus on exploring professors' reactions to change induced by the Bologna reform at the university. Based on 38 in-depth interviews and using Pettigrew's framework (context – content – process), we observe that reactions to change are mostly ambivalent, containing both positive and negative representations. This leads us to introduce the concept of reluctance to change as a result of the ambivalent reactions. Going further in our exploration, we emphasize some main elements that explain the negative representations: a lack of shared vision, an uncertain political context and a perceived lack of resources. We also emphasize incompatibilities that nurture ambivalence: a

university culture characterized by stability, slowness, academic freedom, incremental and consensus-based change, is not adapted to the Bologna reform, which occurs with an overall sense of urgency, a rapid rhythm of adaptation, an imposed and complex process. This paper shows that university is not a simple and homogenous organization since it is composed of different subcultures. Based on these results, we suggest university managers develop a common sense-making and take reluctance to change into account as an indicator of future potential brakes in the Bologna process.

(115/04)

Explorer la vitesse de propagation du changement au sein des grandes organisations, IAG working paper, Louvain-La-Neuve, 2005.

ABSTRACT

La plupart des grandes entreprises évoluent actuellement dans des environnements en mutations rapides. Ce constat pousse les organisations à s'interroger sur les leviers susceptibles d'accélérer ou de freiner la vitesse de déploiement du changement en son sein. A la lumière d'une étude de cas menée au sein d'un opérateur de télécommunications européen, l'auteur présente sept facteurs susceptibles d'influencer la vitesse de propagation du changement au sein des grandes organisations : les interventions des porteurs du changement (dispositifs d'assistance et d'implication), du management (style de leadership), des organisations syndicales (filtres organisationnels), les attributs organisationnels (culture et climat organisationnel), les attributs du changement (congruence culturelle, qualité et utilité perçue), les attributs de groupe (cohésion ou concurrence sociale) et les attributs individuels (auto-efficacité et propension au changement). L'originalité de la démarche est de proposer une approche dynamique des facteurs de propagation, par une analyse approfondie des périodes de pré et post-adoption du changement. L'analyse diachronique du changement révèle des effets contradictoires des différents facteurs au cours du processus.

(134/05)

4.2. Research reports

CŒURDEROY R.

- Cœurderoy R., 2005 *Commentaire critique de "Profits with Principles*, Ira A. Jackson, Jane Nelson, éd.Currency Doubleday, 2004, 385 pages"; Manageris, numero 100.
- 2004 *Commentaire de Edwin Mansfield, Economie managériale. Théories et applications*, traduction de la 4e édition américaine par Bruno Jérôme, Coll. Ouvertures économiques - Balises, Bruxelles, De Boeck, 2002, 784 p., Reflets et perspectives de la vie économique, Editions De Boeck Université, Bruxelles.
- Cœurderoy R., Bessy C., Brousseau E., Chaserant C., 2005, *The Diversity of Technology Licensing Agreements and their Causes*, LESI News (Licensing Executives Society International), Vol 40 (6), December

DELOBBE N.

- Delobbe, N. (2005) *La relation d'emploi: au-delà d'un échange salarial, un contrat psychologique*. Dans: Personnel & Gestion, n°5, Mai 2005. Ed. Kluwer

GAILLY B.

- Janssen F., Gailly B., *Esprit d'entreprise, es-tu là?*, La Libre Belgique, 2004, p. 6.

JANSSEN F.

- Croquet, M., J. Defourny, J.-C. Ettinger, F. Janssen, L. Lievens, S. Mertens de Wilmars, B. Surlemont, M. Vankerkem, C. Van Wymeersch et D. Chantrain (2004), *Cours d'Introduction à l'Entrepreneuriat*, CD-ROM, Fondation FREE
- Janssen F., Gailly B., *Esprit d'entreprise, es-tu là?*, La Libre Belgique, 2004, p. 6.

VAS A.

- Vas, A., *La performance à l'épreuve du temps*, Libre Entreprise, pp.8-9, Juin 2004.

4.3. The Doctoral program

BELLEFLAMME P.

Doctoral Dissertations

- Thèse de Marc Robert, sous la direction de Christian Montet, Université Montpellier I (Octobre 2004)

BIGA M.

On-Going Research Projects

- Understanding the Growth Trajectories of Start-Up Firms

CŒURDEROY R.

On-Going Research Projects

- *The management of intellectual property rights* (V Duplat)
- *Entreprises familiales et avantages concurrentiels* (Albert Lwango)

DELOBBE N.

On-Going Research Projects

- Projet de recherche de Tanguy Dulac – thèse de doctorat financée par le CIM *Le développement du contrat psychologique durant la phase de socialisation organisationnelle des nouvelles recrues*”.

JANSSEN F.

On-Going Research Projects

- E. Fernandez, *Female entrepreneurship in Latin America*.

TASKIN L.

On-Going Research Projects

- Thèse Taskin, L., *Télétravail : Les enjeux de la déspecialisation pour la Gestion des Ressources Humaines. Vers de nouveaux modes de contrôle ?* (Teleworking: despatialisation as a stake for HRM. Towards new control modes?)
- Promoteur/supervisor : A.Spineux

VAS A.

On-Going Research Projects

- Quality assurance in European Business Schools - a competence-based approach, projet de recherche doctorale en cours de Christophe Lejeune (directeur de thèse : A. Vas).
- *Les facteurs de réussite de l'introduction d'itinéraires cliniques au sein des institutions hospitalières wallonnes : une étude exploratoire*. Recherche en cours, débutée en mars 2005, Pr. (Alain Vas et Aurélie Cnop).

5. International research activities

5.1. Workshops and conferences

CŒURDEROY R.

- Organisateur de : International Workshop *Analyzing strategic change in organizations: innovative methods for management*, Brussels, Friday 17/09/04 Details sur <http://www.poge.ucl.ac.be/crecis/archives/>

DION D.

- DION D. La flexibilité, entre global et local, présentation au Colloque *Société flexible, société de services. Quelle Europe sociale pour demain ?*, Louvain-la-Neuve, 12 septembre 2005

JANSSEN F.

- EC/US consortium for *Small and medium-sized enterprises and entrepreneurship education* annual meeting (Louvain-la-Neuve, Juin 2005)

VAS A.

- Organisateur du workshop international portant sur *Analyzing strategic change in organizations: innovative methods for management*, organisé par les professeurs Alain Vas et Régis Cœurderoy dans le cadre des activités Centre de recherche en Changement, Innovation, Stratégie (du CRECIS) et en partenariat avec le COMPASSS research group (COMParative methods for the Advancement of Systematic cross-case analysis and Small-N Studies) dirigé par le professeur B. Rihoux de l'UCL. Le workshop a réuni 80 professeurs et chercheurs issus d'universités européennes de renom (INSEAD, Erasmus University, UCL, Paris-Sorbonne, ULB, Tilburg University, Vlerick School of Management, HEC Paris, KUL,...).

5.2. Academic visits

BIGA M.

Visits to Other Institutions

- Erasmus University Rotterdam (The Netherlands), 18-19 May 2005
- IAE de Lille (France), 18-19 November 2004
- IESE Business School in Barcelona (Spain), 12 November 2004
- Erasmus-Rotterdam Management School (The Netherlands), October 15 2004
- University of Twente, Enschede (The Netherlands), September 19 2004

Visits to IAG

- Under Joint research project (UCL-EUR-Cambridge): Prof. Erik Stam (Erasmus Research Institute of Management (ERIM), Erasmus University Rotterdam): 9 December 2004/22 April 2005

DELOBBE N.

- Mars 2005: Visite au Laboratoire de recherche sur les ressources humaines et l'emploi (LIRRHE° – Université de Toulouse 1 – Toulouse)

GAILLY B.Regular Visits to Other Institutions

- EM Lyon 18- 20 Octobre 2004, 9-11 février 2005, 2-6 avril 2005

Visits to IAG

- Prof. B. Laurent, EM -Lyon.
- Prof. A. Fayolle, EM Lyon

JANSSEN F.Visits to Other Institutions

- Hanoi University of Agriculture (Vietnam, june 2005)
- Corvinus University of Budapest (Hongrie, sept. 2005)
- Groupe IHEC Carthage (Tunisie, mayi 2005)
- Stockholm School of Economics (Sweden, august 2004)

Visits to IAG

- Pr. J. Lorrain (Université du Québec à Trois-Rivières, Can)
- Pr. B. Toney (Appalachian State University, USA)
- Pr. M. McKnew (Clemson University, USA)
- Pr. J. Steagall (University of North Florida, USA)
- Pr. J. Llopis (Universidad de Alicante, EspSpain)
- Pr. D. zu Knyphausen-Aufsess (Bamberg University, AllGermany)
- Pr. A. Mahmoud (IHEC Carthage, Tunisie)

VAS A.Visits to IAG

- Pr. Henk Volberda, Erasmus School of Management dans le cadre de la formation continue en “change management”
- Pr. Christian Vandenberghe, HEC Montréal, dans le cadre de la formation continue en “change management”
- Pr. Aimé Heene, Université de Gand, dans le cadre de la formation continue en “corporate strategy”
- Pr. Marc Ingham, EDHEC Nice, dans le cadre de la formation continue en “corporate strategy”

6. Research collaborations

6.1. Research contracts

BIGA M.

Name of the contract :	Understanding the Growth Trajectories of Start-Up Firms
Financial Support :	National Bank of Belgium
IAG Principal Investigator :	Prof. Benoit Gailly
Research Assistant :	Mahamadou Biga Diambaidou
Résumé du sujet :	Start-up firms growth trajectory analysis.

CŒURDEROY R.

Name of the contract :	The internationalization of R&D
Financial Support :	Federal Science Policy
IAG Principal Investigator :	R. Cœurderoy
Research Assistant :	Valérie Duplat
Résumé du sujet :	Etude comparative des processus d'internationalisation des start ups de haute technologie en Belgique, Allemagne et Royaume-Uni.

GAILLY B.

Name of the contract:	Understanding the Growth Trajectories of Start-Up Firms
Financial Support:	National Bank of Belgium
IAG Principal Investigator:	Prof. Benoit Gailly
Research Assistant:	Mahamadou Biga Diambaidou
Résumé du sujet:	Start-up firms growth trajectory analysis

JANSSEN F.

Name of the contract :	Entrepreneurship in Vietnam
Financial Support :	Oxfam
IAG Principal Investigator :	F. Janssen
Research Assistant :	V. Duplat
Résumé du sujet :	Project in entrepreneurship education in the Ha Tay Province of Vietnam combined with a study on entrepreneurial development and strategies in that region

RESEARCH IN FINANCE

Research in Finance

1. Presentation

The research activities of the Finance Group are devoted to the study of the interrelation between firms, markets and regulation, the main focus being the economic and financial analysis of merger and acquisition (M&A) decisions. Currently conducted research topics are the following ones:

- *Economics of the European merger and acquisition regulation;*
- *CEO's Learning and Hubris in the M&A Decision Process;*
- *Regulated insider trading, market efficiency, and M&A predictability.*

Close links exist between the Finance group and the Institut des Sciences Actuarielles (the publication list of the Institut des Sciences Actuarielles appears in a separate report).

PROFESSORS

Aktas N.,
Couvreur J-P.,
de Bodt E.,
De Wolf M.,
Devolder P.,
Dubois L.,
Gregoire P.

SCIENTIFIC STAFF

Ben Omrane W.,
de Harlez Y.,
de Launoy.
Giacomin O.,
Nassaut S.,
Samaras V.,
Vercruysse O.,
Zhu Y.

2. Scientific publications

2.1. Articles published in Scientific Journals

AKTAS N.

- *The PIN anomaly around M&A announcements*, Nihat Aktas, Eric de Bodt, Fany Declerck and Hervé Van Oppens, Journal of Financial Markets, forthcoming.
- *Market Response to European Regulation of Business Combinations*, Nihat Aktas, Eric de Bodt and R. Roll, Journal of Financial and Quantitative Analysis, Vol. 39, No. 4, December 2004.

DE BODT E.

- *The Heterogeneity Effect of The European Commission Interventions In the Field Of Merger And Acquisition*, Nihat Aktas, Eric de Bodt and Michel Levasseur, European Journal of Finance, Vol. 10, No. 5, Octobre 2004, pp. 412-436.
- *Le décollage d'EADS: le point de vue des marchés financiers*, Nihat Aktas, Eric de Bodt et Laurent Liagre, Finance, Contrôle et Stratégie, à paraître.
- *Etat actionnaire et création de valeur : le cas des fusions-acquisitions*, Nihat Aktas, Eric de Bodt et Laurent Liagre, Banque et Marchés, No. 71, Juillet-Août 2004, pp. 5-18
- *La finance comportementale: un état des lieux*, Nihat Aktas, Reflets & Perspectives de la vie économique, Tome XLIII, No. 2, 2004.
- *The PIN anomaly around M&A announcements*, with A. Aktas, F. Declerck and H. Van Oppens, Journal of Financial Markets, forthcoming.
- *Market Response to European Regulation of Business Combinations*, with A. Aktas and R. Roll, Journal of Financial and Quantitative Analysis, Vol. 39, No. 4, December 2004.
- *Some known facts about financial data*, with J. Rynkiewicz and M. M. Cottrell, European Journal of Economic and Social Systems, special issue on Neural Networks, P. Gaubert ed., Hermes-Lavoisier, Vol. 17, No. 1-2, 2004, pp. 167-183.
- *Credit Rationing, Customer Relationship and the Number of Banks : An Empirical Analysis*, with Fr. Lobeze and J.C. Statnik, European Financial Management, Vol. 11:2, March 2005.

DEVOLDER P.

- Devolder, P. and Barbarin, J. (2005). *Risk measure and fair valuation of an investment guarantee in life insurance*. IME, to appear.
- Devolder, P. and Dominguez-Fabian, I. (2005). *Fair valuation of various participation schemes in life insurance*. Astin Bulletin, to appear.
- Devolder, P. (2004). *Les comptes notionnels : une solution pour notre régime de pension légale?* ACTU-L, 4.
- Devolder, P. and Barbarin, J. (2004). *Mesures de risque d'une garantie de rendement et loi sur les pensions complémentaires*. ACTU-L, 4.
- Devolder, P. and Dominguez-Fabian, I. (2004). *Deflators, actuarial discounting and fair value*. Finance, 25.

OMRANE BEN

- *Pouvoir prédictif et profitabilité des figures chartistes : application au marché des changes euro/dollar.* “Banque & Marchés” N°72 pp.17-31.

2.2. Books**DEVOLDER P.**

- Devolder, P. (2005). *Le financement des régimes de retraite.* Economica, Paris.

3. Conferences

3.1. Conferences with proceedings

AKTAS N.

- *Hubris, Learning, and M&A Decisions*, Northern Finance Association Conference (NFA), Simon Fraser University, Vancouver, September 2005.
- *European M&A Regulation is Protectionist*, European Finance Association Conference (EFA), Maastricht, August 2004.
- *Event study under noisy estimation period*, MFS – Mutlinational Finance Society Annual Conference (MFS), Istanbul Istanbul, July 2004.

BEN OMRANE W.

- *Using self organizing maps to adjust intra-day seasonality*, with Eric De Bodt. WSOM05, Paris-France
- *The foreign exchange quoting activity as an informative signal*, (en coll. avec A. Heinen), EFMA – European financial management association, Bâle-Suisse, Juillet, 2004.

DE BODT E.

- *Hubris, Learning, and M&A Decisions*, Northern Finance Association Meeting, Simon Fraser University, Vancouver, September 2005.
- *Using Self-Organizing Maps to Adjust for Intra-day Seasonality*, avec Walid Ben Omrane, WSOM, Paris 1, June 2005
- *The Self-Organizing Maps for Seasonality Adjustment : Application to the Euro/Dollar Foreign Exchange Volatility and Quoting Activity*”, avec Walid Ben Omrane, ACSEG Annual Meeting, Lille, November 2004.
- *European M&A Regulation is Protectionist*, with N. Aktas and R. Roll, European Finance Association (EFA), Maastricht, August 2004.

3.2. Other Conferences

AKTAS N.

- *European M&A regulation is protectionist*, Gent University, Second Corporate Finance day, September 27, 2004

4. Other publications

4.1. Working Papers

AKTAS N.

- *European M&A Regulation is Protectionist*, Nihat Aktas, Eric de Bodt and Richard Roll
- *Hubris, Learning, and M&A Decisions*, Nihat Aktas, Eric de Bodt and Richard Roll

BEN OMRANE W.

The Information Content of Individual FX Dealers' Quoting Activity

ABSTRACT

We investigate the information content of dealers' quoting activity as measured by the frequency of price revisions in the Euro/Dollar foreign exchange market. We use the multivariate double autoregressive conditional Poisson model designed for time series of count data. We find that dealers react differently to the same news announcements, some dealers increasing their activity, whilst others decrease it in response to the same news. We attribute this to the heterogeneous interpretation of the news content by individual traders and to the significant influence of some dealers on others. We also find very significant interaction between dealers' quoting activity, which suggests that dealers monitor the quoting activity of others to infer their private information and their interpretation of public news announcements. (120/04)

DE BODT E.

- *European M&A Regulation is Protectionist*, Nihat Aktas, Eric de Bodt and Richard Roll
- *Hubris, Learning, and M&A Decisions*, Nihat Aktas, Eric de Bodt and Richard Roll
- *Using Self-Organizing Maps to Adjust Intra-day Seasonality*, Walid Ben Omrane and Eric de Bodt

DE LAUNOY

Informed Trading around corporate event announcements: Stock versus Options

Tanguy de Launois¹ and Hervé Van Oppens²
(127/04)

DEVOLDER P.

- Devolder, P et Jérôme Barbarin J. et Pierre Devolder, *Risk Measure and Fair Valuation of an Investment Guarantee in Life Insurance*.
- Devolder, P. & Denuit, M. (2006) *Continuous time stochastic mortality and securitization of longevity risk*.
- Delwarde, A., Denuit, M., Devolder, P. & Maréchal, X. (2005) *Prix de rentes: de la réglementation aux "fair value"*.
- Biffis, E., Denuit, M. & Devolder, P. (2005) *Stochastic mortality under measure changes*.
- Devolder, P. & Goffin, V. (2005) *Unit credit cost and level premium methods revisited in a deterministic continuous time environment*.

- Devolder, P. & Dominguez-Fabian, I (2005) *Fair valuation of various participation schemes in life insurance.*
 - Devolder, P. & Hainaut, D. (2005) *The annuity puzzle revisited: a deterministic version with Lagrangian Methods.*
 - Denuit, M., Devolder, P. & Goderniaux, A.-C. (2004) *Securitization of longevity risk: Pricing survival bonds with Wang transform in the Lee-Carter framework.*
- (140/05)

VERCRUYSE O.

Impact of Overwhelming Joy on Consumer Demand: The Case of a Soccer World-Cup Victory

ABSTRACT

Consumer sentiment is a key determinant of the demand for any good or service. However, the identification of periods of pessimistic or optimistic mood remains challenging in practice. In this paper, we consider a natural experiment based on the Soccer World Cup. We identify the period following a Soccer World-Cup victory as a period of overwhelming joy for the winning country. Then, we test the impact of a World-Cup victory on the demand for Soccer in this country. Our empirical study is based on all matches of the French Soccer First League during the four seasons surrounding the 1998 World Cup. After controlling for the main determinants of attendance, we find that consumer demand has positively, significantly, and durably shifted following the 1998 World Cup. The World-Cup effect persists after we control for season-ticket holders. Finally, we find that the rise in demand is primarily due to infrastructure and victory effects, and not to hosting effects.

(122/04)

Investigation of the impact of the financial communication intensity on the conditional volatility of stock returns

Jean-Gabriel Cousina, Tanguy de Launois

ABSTRACT

The relation between information flow and asset prices behavior is one of the key issues of modern finance. Our study investigates more closely the link between frequency of Information arrivals and stock return volatility. It aims precisely to test empirically the mixture of distribution hypothesis and to check whether the stock returns distribution is driven by the frequencies of information arrivals on the Paris stock Exchange (Euronext). We analyse the impact of news on volatility at the firm-level. We opt for a model with two (Markov switching) regimes of volatility that we apply to all stocks pertaining to the CAC40 index from January 1999 to December 2003. We find a positive and significant but marginally decreasing impact of the daily frequency of information arrivals on the probability to be in a state of high volatility for each of the 40 companies considered. The subsequent model for panel data allows us to conclude that this impact crucially depends on the timing and the subject of the news release.

(128/05)

Les modèles de sélection adverse en finance de marché

Une analyse critique

ABSTRACT

Cette étude a pour but d'analyser d'un point de vue critique les modèles de sélection adverse utilisés en microstructure des marchés financiers. Tout d'abord d'un point de vue théorique, la critique développée remet en question aussi bien la philosophie générale que les hypothèses sous-jacentes aux modèles de décomposition de la fourchette de prix acheteur/vendeur. Ensuite, cette recherche fut également l'objet d'une étude empirique sur un échantillon français de fusions et acquisitions. A la vue des critiques énoncées et des résultats empiriques obtenus, l'utilisation des modèles de décomposition de la fourchette de prix comme mesure de l'asymétrie d'information doit être impérativement remis en question.

(133/05)

4.2. The Doctoral program**AKTAS N.**Doctoral Dissertations

- Louis Ndikumana, *Croissance externe de l'entreprise et performance boursière* ; Thèse présentée à l'Université catholique de Louvain le 20 mai 2005
- Laurent Liagre, *Etat actionnaire et création de valeur : une analyse par les fusions-acquisitions*, Thèse présentée à l'Université de Lille 2 le 9 décembre 2004

On-Going Research Projects

- *Evidences on the contribution of legal insider trading to market efficiency*, (joint with E. de Bodt and H. Van Oppens)
- *Hubris, Learning, and M&A decisions: Empirical Evidences*, (joint with E. de Bodt and R. Roll)
- *Insider trading activities and M&A predictability*, (joint with E. de Bodt and H. Van Oppens).

BEN OMRANE W.On-Going Research Projects

- News announcements vs. technical analysis: the importance of different informational sources for the formation of FX quotes. With Emanuela Trifan (Darmstadt University of Technology-Germany)
- Information and noise trading effects on volatility: evidence from the euro/dollar currency market.

RESEARCH IN
CORPORATE SOCIAL
RESPONSIBILITY AND
ENVIRONMENT

Research in Corporate Social Responsibility and Environment

1. Presentation

The Research Centre in Corporate Social Responsibility and Environment promotes fundamental research, applied research and teaching in Environmental Management, Sustainable Development, Corporate Social Responsibility (CSR), Organisational Analysis, Consumer Policy and Market Regulations. It combines management science, business ethics, ecology, sociology, philosophy and law, and contributes to major developments and reflections concerning the relationships between business and society.

The research is in particular oriented toward:

- (1) the development of the theoretical background behind CSR (stakeholder management, modes of governance, nature and importance of new values in business);*
- (2) the study of the different tools (reports, labels, norms, certifications...) used by companies to demonstrate the importance they attach to CSR, and the analysis of the applicability of those tools in different countries;*
- (3) the empirical analysis of the CSR integration in corporate strategy (Which communication strategy? Which economic and social benefits? What are the best practices?...).*

PROFESSORS

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2. Scientific publications

2.1. Articles published in Scientific Journals

BRECHET TH.

- Bréchet Th., Boulanger P-M., *Models for sustainable development policy-making: state of the art and perspectives for research*, Ecological Economics, 55(3), 337-350, 2005.
- Pérez-Barahona A., Zou B., *A comparative study of Energy Saving Technical Progress in a Vintage Capital Model*, Resource and Energy Economics, forthcoming, 2005.
- Bréchet Th., Boulanger P-M., *Le Mécanisme pour un Développement Propre tiendra-t-il ses promesses ?*, Reflets & Perspectives de la Vie Economique, forthcoming 2005.
- Bréchet Th., Boulanger P-M., *Le Mécanisme pour un Développement Propre, ou comment faire d'une pierre deux coups*, Regards Economiques, n°27 (www.regards.ires.ucl.ac.be), 2005.

DE NANTEUIL-MIRIBEL M.

- DE NANTEUIL-MIRIBEL M, NACHI M., *Flexibility & security : what forms of political regulation ?*, Transfer, vol. 10, Summer 2004, p. 300-318.
- DE NANTEUIL-MIRIBEL M, SCHOTS M., *Flexibilité négociée et relation d'emploi dans le secteur bancaire européen*, Travail et Emploi, n°99, juillet 2004, p. 41-53.

FRASELLE N.

- Fraselle N., Kestemont M.-P. *Le marketing éthique. Vecteur de responsabilité pour les entreprises et pour les consommateurs. Les codes de conduite et les labels ne sont-ils que des faire-valoir ?*, Revue Européenne de Droit de la Consommation, 4/2004, pp. 271-287.

PERILLEUX T.

- PERILLEUX T., *Idéologie managériale et résistance à l'aliénation*, Sociologia del Lavoro, III, (95), 2004, p. 85-97
- PERILLEUX T., *Le déni de l'évaluation, Travailler*. Revue Internationale de Psychopathologie et de Psychodynamique du Travail, (13), 2005, p. 113-134

SWAEN V.

- Bigné E., Chumpitaz R., Andreu L., and Swaen V. (2005), *Percepción de la responsabilidad social corporativa : un analisis cross-cultural*, Universia Business Review, N°5, pp. 14-27.
- Lindgreen A. and Swaen V. (2005), *Corporate Citizenship: Let Not Relationship Marketing Escape the Management Toolbox*, Corporate Reputation Review, Vol. 7, N°4, pp. 346-363.
- Maignan I. and Swaen V. (2004), *La responsabilité sociale d'une organisation : Intégration des perspectives marketing et manageriale*, Revue Française du Marketing, N°200, 5/5, pp. 51-66.

TYTECA D.

- Bernardos, S., Tyteca, D. & Amich, F. : *Cytotaxonomic study of some taxa of the subtribe Orchidoideae (Orchidoideae, Orchidaceae) from the Iberian Peninsula*. Israel Journal of Plant Sciences 52 : 161-170, 2004.

- Bernardos, S., Tyteca, D., Revuelta, J.L. & Amich, F. : *A new endemic species of Epipactis (Orchidaceae) from north-east Portugal*. Botanical Journal of the Linnean Society 145 : 239-249, 2004.
- Bernardos, S., Tyteca, D., Crespi, A. & Amich, F. : *Biostatistical studies of northeastern Portuguese populations of the Epipactis helleborine (L.) Crantz and E. tremolsii Pau species groups (Orchidaceae)*. Acta Botanica Gallica 151 : 33-43, 2004.

2.2. Books

DE NANTEUIL-MIRIBEL M.

- De Nanteuil-Miribel M., Léonard E., Schots M., Taskin L., *Les flexibilités en Europe: Pratiques, décisions et négociations.*, 2004, 273 p, Cahiers de l'Institut des Sciences du Travail, 22.
- Pourtois H., De Nanteuil-Miribel M., *L'Etat social actif: une réponse au défi de l'intégration par le travail?*, Louvain-la-Neuve, UCL, Chaire Hoover d'éthique économique et sociale, 2004, 31 p, Document de travail, 137.

SWAEN V.

- Swaen V. (2004), *Etude des perceptions et des réactions des consommateurs face aux activités citoyennes des entreprises : Application à deux catégories de produits*, Ph.D. thesis, Université catholique de Louvain, Facultés des Sciences Economiques, Sociales et Politiques, Institut d'Administration et de Gestion, Belgium.

2.3. Book chapters

BRECHET T.

- Bréchet Th., Lussis B., *The contribution of the Clean Development Mechanism in the Belgian climate policy*, in Eyckmans, J., S. Proost and B. Willems (eds.), *Economic Aspects of Climate Change Policy: A European and Belgian Perspective*, Chapter 7, Acco Publisher, 2005.
- Pérez-Barahona A., Zou B., *Energy Saving Technological Progress in a Vintage Capital Model*, *Economic Modeling of Climate Change and Energy Policies*, Chapter 11, Edward Elgar, 2005.

DE NANTEUIL-MIRIBEL M.

- De Nanteuil-Miribel M., Schots M., Taskin L., *Flexibilité et décision: quelles rationalités?*, In : *Flexibilités et performances*, Beaujolin-Bellet R. ed(s), Paris, La Découverte, 2004, ISBN : 2-7071-4323-5, Recherches, p. 91-110.
- De Nanteuil-Miribel M., Pourtois H., *L'Etat social actif: une réponse au défi de l'intégration par le travail?*, In : *L'Etat social actif. Vers un changement de paradigme?*, Vielle Pascale, Pochet Philippe, Cassiers Isabelle ed(s), Bruxelles, P.I.E.-Peter Lang, 2005, Travail et société, 44, p. 323-350

PERILLEUX T.

- Perilleux T., Marquet J., *Entre la commémoration et la critique sociale*, In : PERILLEUX T., *Etre à l'épreuve dans le travail*, In : La société flexible. Travail, emploi, organisation en débat, M. de Nanteuil-Miribel, A. El Akremi ed(s), Paris, Erès, 2005, p. 111-136.
- Perilleux T., *Le temps du labeur ou les tensions de la flexibilité comme oppression*, In: L'ère du temps, Bruxelles, Couleur Livres, Procès Dutroux. Penser l'émotion, V. Magos ed(s), Bruxelles, Temps d'arrêt, 2004, p. 171-178.
- Perilleux T., *Etre éprouvé par le travail. Sujet entrepreneur et résistance à l'aliénation*, In : Résistances au sujet - résistances du sujet, J. Giot, J. Kinable ed(s), Namur, Presses universitaires, 2004, p. 143-157.

2005

- Perilleux T., *Se rendre désirable. L'employabilité dans l'Etat social actif et l'idéologie managériale*, In : L'Etat social actif: vers un changement de paradigme?, P. Vielle, P. Pochet ed(s), Bruxelles, P.I.E.- Pieter Lang, 2005, p. 301-322.

3. Conferences

3.1. Conferences with proceedings

DE NANTEUIL-MIRIBEL M.

- de Nanteuil-Miribel M., *Travail et subjectivité Esquisse d'une politique de l'expérience*, in Giot J., Kinable J. (eds), *Résistance au sujet, résistance du sujet*, Synthèse du colloque de Cerisy-la-Salle, ERES, 2004

PERILLEUX T.

- Perilleux T., *Le temps pris dans les tensions de la flexibilité*, Première Biennale internationale du temps, Besançon (France), 2004
- Perilleux T., *L'inhumain au travail?*, Perversion et lien social, Luxembourg, Décembre 2004
- Perilleux T., *L'employabilité dans l'idéologie managériale*, L'employabilité, Grenoble, Janvier
- Perilleux T., *Penser les changements du travail et de la société dans l'espace européen*, Société flexible, Société de services, Louvain-la-Neuve, Septembre.
- Perilleux T., *Stress, sens du travail et flexibilité: le bien-être est-il flexible?*, Société flexible, Société de services, Louvain-la-Neuve, Septembre
- Perilleux T., *Controverses et clinique en situation de travail*, La clinique et ses effets sur la pensée. Colloque international du REF, Montpellier, Septembre

SWAEN V.

- Beckmann S., Bigné E., Andreu L., Chumpitaz R. and Swaen V. (2005), *An International Comparison of Corporate Social Responsibility Perceptions*, 12th Biennial World Marketing Congress, July 6-9, Muenster, Germany.
- Andreu L., Bigné E., Chumpitaz R., Mattila A. S. and Swaen V. (2005), *Effects of Perceived Retail Environment on the Shopping Experience? An Empirical Examination in Shopping Centres & Traditional Retailing*, 12th Biennial World Marketing Congress, July 6-9, Muenster, Germany.
- Swaen V. and Vanhamme J. (2004), *The use of corporate social responsibility arguments in communication campaigns : Does source credibility matter?*, Association for Consumer Research Conference, October 7-10, Portland, USA.
- Bigné E., Andreu L., Chumpitaz R. and Swaen V. (2004), *La percepción de la responsabilidad social corporativa en las decisiones de compra del consumidor: un enfoque cross-cultural*, XVI Encuentro de Profesores Universitarios de Marketing, September 22-24, Alicante, Spain.

3.2. Other Conferences

BRECHET T.

- *A micro-economic rational for no-regret abatement pollution options*, Bréchet Th., avec P-A. Juvet, Annual Congress of the European Association of Environmental Economists, Bremen, Germany, 23-25 juin 2005
- *Transferable property rights on pollution*, Lambrecht S., avec Th. Bréchet et F. Prieur, Annual Congress of the European Association of Environmental Economists, Bremen, Germany, 23-25 June 2005
- *Le Mécanisme pour un Développement Propre, ou comment faire d'une pierre deux coups*, Th. Bréchet, avec P-M Boulanger, Séminaire de Politique Economique, Département d'Economie, UCL, 18 février 2005.
- *Politiques climatiques et Mécanisme pour un Développement Propre*, Th. Bréchet, avec P-M Boulanger, Research Seminar, Département de Géographie, UCL, 15 mars 2005.
- *Comment évaluer la performance environnementale des entreprises ?*, Th. Bréchet, avec Ph. Michel, Research Seminar, Unité POGE, Institut d'Administration et de Gestion, UCL, 14 avril 2005.
- Sixth CEPR Conference on Applied Industrial Organization, Munich, Germany, May 2005, Agustin Perez-Barahona.
- *Environmental performance and equilibrium, a two-country comparison*, Th. Bréchet, avec Ph. Michel, Research Seminar in International Economics, Ecole des Hautes Etudes Internationales, Geneva, June 2005.
- *Resource Economics, Technology and Sustainable Development*, Annual Congress of the Swiss Society of Economics and Statistics. ETH Zürich, Switzerland, March 2005, Agustin Perez-Barahona.
- *Integrated assessment models and climate negotiations*, Th. Bréchet, Lecture for the Master in Environmental Economics, Université de Genève, Juin 2005.
- *Comment allouer les quotas d'émission?*, Communication to the Institut belge des Finances Publiques, Federal Ministry of Finances, September 2005, Thierry Bréchet.

FRASELLE N.

- *Mise en place d'une stratégie de communication de la qualité environnementale et sociale des produits fondée sur l'étiquetage*, UCL, 15 décembre 2004.
- *Le commerce équitable : de la responsabilité sociale de l'entreprise à la solidarité*, DES en Science et Gestion de l'Environnement, UCL, 16 décembre 2004.
- *L'accès aux service d'intérêt général : la droit des consommateurs à l'information*, Maroc, Errachidia, 6 janvier 2005.
- *Les entreprises au Luxembourg : un apport au développement dans les pays du Sud?*, Chambre de Commerce de Luxembourg, 1^{er} mars 2005.
- *L'Etat et le marché : éléments pour une effectivité des rapports entre éthique de l'entreprise et changements institutionnels*, Maroc, Fès, 15 avril 2005.

- Animation d'une session de travail sur *Les responsabilités des autorités de régulation à l'égard des consommateurs* dans le cadre de la Première Conférence du Forum de la Régulation au Maroc, Fès, 9 décembre 2005.
- *Development of On-Line Consumer Education Tools for Adults*, CE-DGSANCO General Assembly for Consumer Organisations, 5 December 2005.
- European Communication School, Brussels, conferences on Consumer protection and European Law, February 2006.

TYTECA D.

- *Economic Aspects of Ecological Networks Towards Improved Ecosystem Functions* Eight Scientific Biennial Meeting of the International Society for Ecological Economics, *Challenging Boundaries: Economics, Ecology and Governance*, organised by the Université du Québec à Montréal and Concordia University, Palais des Congrès, Montréal (Canada), 11-14 July 2004.
- *Economic valuation of ecological networks : a case study*, Sixth International Conference of the European Society for Ecological Economics (ESEE 2005): "Science and Governance - The Ecological Economics Perspective", Lisbon, 14-17 June 2005.

4. Other publications

4.1. Working Papers

BRECHET T.

- Lambrecht S., *The effects of a demographic shock in an OLG economy with pay-as-you-go pensions and property rights on the environment : the case of selfish households*, Environmental Economics and Management Memorandum #30.
- Lambrecht S., *Maintaining environmental quality for overlapping generations: some reflections on the US Sky Trust Initiative*, Environmental Economics and Management Memorandum #29.
- Bréchet Th., Lussis B., *The contribution of the Clean Development Mechanism to national climate policies*, Environmental Economics and Management Memorandum #28.
- Bréchet Th., Lambrecht S. Prieur F. *Intergenerational transfers of pollution rights and growth*, Environmental Economics and Management Memorandum #27.
- Germain M., van Steenberghe V. Magnus A. *Optimal policy with tradable and bankable pollution permits*, Environmental Economics and Management Memorandum #25, Reprint from Journal of Public Economy Theory, 6(5), 737-757, 2004.
- Germain M., van Steenberghe V. Magnus A. *Should developing countries participate in the Clean Development Mechanism under the Kyoto protocol*, Environmental Economics and Management Memorandum #23.
- Thierry Bréchet, Stéphane Lambrecht, *Puzzling over sustainability: an equilibrium analysis*, Environmental Economics and Management Memorandum #17, 2004.
- Thierry Bréchet, Marc Germain, Vincent van Steenberghe, *The clean development mechanism under the Kyoto protocol and the 'low-hanging fruits' issue*, Environmental Economics and Management Memorandum #14, 2004.
- Thierry Bréchet, Philippe Michel, *Environmental performance and equilibrium*, Environmental Economics and Management Memorandum #13, 2004.

4.2. Research reports

BRECHET T.

- *Kyoto, Pandore et l'industrie*, L'Echo, 2004, July 8th.
- *Vols de nuit: créer des permis de polluer*, Le Soir, Carte Blanche, 2004, October 4th (with Pierre Picard).

SWAEN V.

- Swaen V. (2004), *Communication citoyenne*, Chronique de La Libre, September 4th, 2004.

TYTECA D.

- Barbieri, A., Bettendroffer, A. & Dehoux, F. (Promoteur Tyteca, D.): *Aspects économiques de la gestion des ressources en eau*, Projet Pirene - Programme Intégré De Recherche Environnement - Eau, Rapport Final, Février 2005.
- Born, C.-H., Demez, L., Di Giusto, A., Endels, P., Haumont, F., Hermey, M., Leduc, L., Lombart, X., Mahy, G., Tyteca, D. (Coordinateur), Vanthournout, E., Verheyen, K., Verheyen, W., Vermote, B. & Vincke, J. : Research Project Econet- *Feasibility Of Ecological Networks : Ecological, Economic, Social And Legal Aspects*. BELSPO project MA01, Final report, avril 2005.

5. International research activities

5.1. Workshops and conferences

BRECHET T.

- *Industrial Organization and the Environment*, CORE, 28 & 29 October 2004, organized by Thierry Bréchet.

5.2. Academic visits

BRECHET T.

Visits to Other Institutions

- Institut National de Recherche Agronomiques (INRA), Montpellier.
- CIRED et Haute Ecole en Sciences Sociales, Paris.
- Graduate Institute of International Studies, Geneva,
- HEC-Geneva, University of Geneva.
- GREQAMS, University Lilles III.

Regular Visits to Other Institutions

- GAIN, Université du Maine, Le Mans.
- EUREQua, University Paris 1 Panthéon-Sorbonne.

SWAEN V.

Regular Visits to Other Institutions

- Ieseg School Of Management, Lille, France (Ruben Chumpitaz, Full Professor)
- Rotterdam School Of Management, Rotterdam, The Netherlands (Joëlle Vanhamme, Assistant Professor)
- Ecole Supérieure Des Affaires, Université De Lille II, Lille, France
- Facultés Universitaires Notre-Dame De La Paix, Namur, Belgium (Alain Decrop, Professor).

6. Research collaborations

6.1. Research contracts

BRECHET T.

Name of the contract : CLIMNEG (Climate Negotiations)

Financial Support : Federal Belgian Science Policy

IAG Principal Investigator : Thierry Bréchet

Résumé du sujet

The CLIMNEG project consists of a research network in interdisciplinary researches on decision making for climate policies, with special attention paid on climate negotiations, integrated assessment and equity issues. This network is coordinated by CES – Katholieke Universiteit Leuven and gathers ASTR – Université catholique de Louvain and CORE - Université catholique de Louvain. The specific objectives of the CORE team are, on the one hand, to develop the overlapping generations tool in the analysis of international cooperation and inter-generational equity and, on the other hand, to analyze the issues raised by banking and borrowing strategies of tradable permits over the second Kyoto commitment period. The agenda of the whole project and working papers can be consulted at the website <http://www.climneg.be>.

Name of the contract : Technological progress and Sustainable Development

Financial Support : French Ministry of Research

IAG Principal Investigator : Thierry Bréchet

Résumé du sujet :

The objective of this project is to analyse the contribution of technological progress in obtaining an economically, environmentally and socially sustainable path of development. The methods will use the most recent advances in the economic theory of technological change in macrodynamics. The project also aims at reinforcing existing collaborations between CORE and the following French research institutes: EUREQua (U. of Paris I), THEMA (U. of Paris 10), GREQAM (U. of the Mediterranean), GAINS (U. of Maine) and INRA (U. de Montpellier).. The MIT (USA) and Tilburg University (NL) are also involved in the network.

TYTECA D.

- PIRENE - Integrated Research Programme Environment - Water, at the scale of the Walloon Region, funded by the Walloon Minister for Land-Use Planning, Urbanism and Environment, March 2001 – February 2005.

IAG Principal Investigator : Daniel Tyteca (Coordinator of the IAG research team on Economic Analysis of Water Uses)

Research Assistants :

Andrea Barbieri, Anne Bettendroffer, Fabrice Dehoux.

2. ECONET - Feasibility of Ecological Networks : Ecological, Economic, Social and Legal Aspects. BELSPO project N. MAO1, funded by the Belgian Science Policy, December 2002 – April 2005.

IAG Principal Investigator : Daniel Tyteca (Coordinator of the project)
 Research Assistant : Aurore Di Giusto

Researchers and teaching assistant (CSRE)

MAON F.

Integration of Corporate Social Responsibility principles by the company: effects on and influence of company's external and ubiquitous stakeholders.

This project consists in an analysis of the dynamics between the company and its external and ubiquitous stakeholders in the change process linked to the integration of corporate social responsibility (CSR) principles by the company. This research is constructed on empirical investigations and based on case studies in which qualitative and quantitative analysis of the stakeholders' perceptions and attitudes play a central role. The objective of this research is to establish a normative and comprehensive model aimed at supporting the integration of CSR principles in the strategy and in the organization of the contemporary company. And this in identifying and clearly defining the essential interactions between company and its stakeholders in the change process.

Researchers (CSRE)

FRASELLE N.

- Integration of Corporate Social Responsibility principles by the company: effects on and influence of company's external and ubiquitous stakeholders. Executive Officer of the EIMAPS Project : Inter-university Network on Physical activity management and sustainable development (Belgium, France, Poland Czech Republic), with the support of the EU-SOCRATES.
- E learning Module on Consumer Rights within the European Network DOLCETA/ Development of On-Line Consumer Education Tools for Adults in the 25 countries of the EU, with the support of the European Commission-DG SANCO, 2004-2006

Objectives :

To assist in raising the level of awareness and understanding of European consumer rights among adults in the Member States,

To develop interactive web-based tools for consumer education to be used by 'multipliers': teachers, trainers and adult educators in educational institutions, government bodies with consumer responsibilities, consumer associations,

To exploit the results and products of existing projects and activities at European and national levels wherever possible to make them available to the audience.

IAG Principal Investigator : Fraselle N.
 Researchers: Hélène Charles, Sébastien Robeet et Philippe Massart (IPM)

- Elaboration of a communication plan based on social and eco-labels in the sectors of sport, cars and clothes, with the support of the European Commission-DG SANCO, 2004-2005

Objectives :

For each of the three sectors, the project aims at building a strategy based on labelling and brand image. The foundations of a European consumer policy are examined in order to promote social and eco management systems in companies.

IAG Principal Investigator : Fraselle N.

Researchers: Patricia Delbaere et Hélène Charles

- Coordination of CONSOMAR “Promotion of consumer and competition policies in Morocco”. In the scope of an inter-university network, the project is supported by the CUD (University Cooperation for Development), 2003-2006.

IAG Principal Investigator : Fraselle N.

- Evaluation process of public policies for changing consumer and production patterns : project supported by the Belgian Federal Office for Science Policy, 2006.

IAG Principal Investigator : Fraselle N.

Researchers: Hélène Charles et Benoît Esmanne (POLS)

- Inter-university CLUSTER on “Sustainable consumption, what role for consumers?” project supported by the Belgian Federal Office for Science Policy, in cooperation with the universities of Brussels, Liege and Antwerp, 2004-2006.

IAG Principal Investigator : Fraselle N.

- Direct dialogue with consumers : labelling, fair contract terms and market transparency : contract with the Fondation Roi Baudouin, Mars-Octobre 2004.

IAG Principal Investigator : Fraselle N.

- Inventory of relevant policies activities and instruments for sustainable consumption and production, contract with the Belgian Ministry of Environment and UNEP/United Nations Environment Programme, 2004-2005.

IAG Principal Investigator : Fraselle N.

- Corporate social responsibility in Luxembourg : inventory of the impacts on the relations North-South, contract with Caritas Luxemburg, 2004-2005.

IAG Principal Investigator : Fraselle N.

RESEARCH FROM OTHER ASSOCIATED PROFESSORS

Research from other associated professors

1. Scientific publications

1. Articles published in Scientific Journals

BAUWENS L.

- Bauwens L., Laurent S., Rombouts J., *Multivariate GARCH models: a survey* Forthcoming in *Journal of Applied Econometrics* 21/1, 2006.
- Bauwens L., Laurent S., Rombouts J., *Econometric analysis of intra-daily activity on Tokyo Stock Exchange* Forthcoming in *Monetary and Economic Studies* 24/1, 2006.
- Bauwens L., Rime D., Sucarrat G., *Exchange rate volatility and the mixture of distribution hypothesis*, *Empirical Economics* 30/4, 889-911, 2005.
- Bauwens L., Bos C., van Oest R., van Dijk H.K., *Adaptive radial-based direction sampling: a class of flexible and robust Monte Carlo integration methods* *Journal of Econometrics* 123/2, 201-225, 2004.
- Bauwens L., Giot P., Grammig J., Veredas D., *A comparison of financial duration models via density forecasts*, *International Journal of Forecasting*, 20, 589-609, 2004.
- Bauwens L., Veredas D., *The stochastic conditional duration model: a latent factor model for the analysis of financial durations*, *Journal of Econometrics*, 119/2, 381-412, 2004.
- Bauwens L., Veredas D., Pohlmeier W., Editors' introduction, *High Frequency Financial Econometrics* special issue of *Empirical Economics* 30/4, 791-794, 2005.
- Bauwens L., Boswijk P., Urbain J-P., Editors' introduction: *Causality and Exogeneity in Econometrics* *Journal of Econometrics*, in press.
- Bauwens L., Lubrano M., van Dijk H., Editors' introduction: *Recent advances in Bayesian Econometrics* *Journal of Econometrics* 123/2, 197-199, 2004.

DEJEMEPPE M.

- Cockx, B., M. Dejemppe (2005), *Duration dependence in the exit rate out of unemployment in Belgium. Is it true or spurious?*, *The Journal of Applied Econometrics*, 20, 1-23.
- Dejemppe M. (2005), *A complete decomposition of unemployment dynamics using longitudinal grouped duration data*, *Oxford Bulletin of Economics and Statistics*, 67, 47-70.

DE LA CROIX D.

- de la Croix D., Artige L., Camacho C., *Wealth breeds decline: reversals of leadership and consumption habits*, *Journal of Economic Growth*, 9, 423-449, 2004.
- de la Croix D., Boucekine R., Licandro O., *Modelling vintage structures with DDEs: principles and applications*, *Mathematical Population Studies*, 11, 151-179, 2004.
- de la Croix D., Doepke M., *Private versus public education when differential fertility matters*, *Journal of Development Economics*, 73, 607-629, 2004.

- de la Croix D., Mahieu G., Rillaers A., *How should the allocation of resources adjust to the baby bust ?*, Journal of Public Economic Theory, 6, 607-636, 2004.

DENUIT M.

- Delwarde, A. and Denuit, M. (2005). *Sur les méthodes de conversion d'une rente en un capital*. Revue Générale des Assurances et des Responsabilités.
- Pitrebois, S., Denuit, M. and Walhin, J.-F. (2005). *Bonus-malus systems with varying deductibles*. ASTIN Bulletin 35, 261-274.
- Denuit, M. and Goderniaux, A.C. (2005). *Closing and projecting lifetables using log-linear models*. Bulletin of the Swiss Association of Actuaries, 29-49.
- Walhin, J.-F. and Denuit, M. (2005). *On the pricing of Top & Drop Excess of Loss covers*. Journal of Actuarial Practice 12, 137-156.
- Delwarde, A., Kachakhidze, D., Olie, L. and Denuit, M. (2005). *Modèles linaires et additifs généralisés, maximum de vraisemblance local et méthodes relationnelles en assurance sur la vie*. Bulletin Français d'Actuariat.
- Magis, C., Denuit, M. and Walhin, J.-F. (2005). *La TPRV française: dépassée?*. Bulletin Français d'Actuariat.
- Magis, C., Denuit, M. and Walhin, J.-F. (2005). *La mortalité, un phénomène en pleine mutation: quelle solution pour le marché des rentes?* Bulletin Français d'Actuariat.
- Pitrebois, S., Denuit, M. and Walhin, J.-F. (2005). *Multi-event bonus-malus scales*. Journal of Risk and Insurance.
- Czado, C., Delwarde, A. and Denuit, M. (2005). *Bayesian Poisson logbilinear mortality projections*. Mathematics & Economics 36, 260-284.
- Brouhns, N., Denuit, M. and Van Keilegom, I. (2005). *Bootstrapping the Poisson log-bilinear model for mortality projection*. Scandinavian Actuarial Journal 212-224.
- Denuit, M. and Lambert, Ph. (2005). *Constraints on concordance measures in bivariate discrete data*. Journal of Multivariate Analysis 93, 40-57.
- Denuit, M. and Scaillet, O. (2004). *Nonparametric tests for positive quadrant dependence*. Journal of Financial Econometrics 2, 422-450.
- Denuit, M. and Lang, S. (2004). *Nonlife ratemaking with Bayesian GAM's*. Insurance: Mathematics and Economics 35, 627-647.
- Cebrian, A., Denuit, M. and Scaillet, O. (2004). *Testing for concordance ordering*. ASTIN Bulletin 34, 151-173.
- Pitrebois, S., Denuit, M. and Walhin, J.-F. (2004). *Bonus-malus scales in segmented tariffs: Gilde and Sundt's work revisited*. Australian Actuarial Journal 10, 107-125.
- Magis, C., Denuit, M. and Walhin, J.-F. (2004). *Une proposition de tables prospectives pour le marché belge des rentes*. Belgian Actuarial Bulletin 4, 23-43.
- Purcaru, O., Guillen, M. and Denuit, M. (2004). *Linear credibility models based on time series for claim counts*. Belgian Actuarial Bulletin 4, 62-74.

DOCQUIER F.

- F. Docquier, Ph. Liégeois, *Economic Simulating large scale OLG model with Troll*, Computational Economics 23(1) (2004), 1-19.

- F. Docquier, *Income distribution, non-convexities and endogenous fertility*, *Economica* 71(282) (2004), 261-273.
- Ph. Cattoir, F. Docquier, *Debt-sharing and secession : a generational accounting approach*, *Regional Studies* 38-3 (2004), 293-303.
- M. Debuissson, F. Docquier, A. Noury and M. Nantcho, *Immigration and aging in the Belgian regions*, *Brussels Economic Review* (2004), Special issue on skilled migration, 47(1), 139-158.
- D. Cinar and F. Docquier, *Brain Drain and remittances: implications for the source country*, *Brussels Economic Review* (2004), Special issue on skilled migration, 47(1), 103-118.
- D. de la Croix, F. Docquier and Ph. Liégeois, *Income growth in the 21st century: Forecasts with an overlapping generations model*, *International Journal of Forecasting* (2005) forthcoming.
- F. Docquier, O. Lohest, A. Marfouk, *Union Européenne et migrations internationales : l'UE15 contribue-t-elle à l'exode des travailleurs qualifiés ?*, *Revue Economique* (2005) forthcoming.
- X. Chojnicki, F. Docquier, L. Ragot, *L'immigration "choisie" face aux défis économiques du vieillissement démographique*, *Revue Economique* (2005) forthcoming.

GIOT P.

- Giot P., *Unexpected capital gains and the stock market performance at the turn of the century*, *Journal of Investing*, 2006, forthcoming
- Giot P., *How large is liquidity risk in an automated auction market?*, with Joachim Grammig *Empirical Economics*, 2005, forthcoming
- Giot P., *Implied volatility indexes and daily Value-at-Risk models*, *Journal of Derivatives*, 2005, 12, 54-64
- Giot P., Bauwens L., Ben Omrane W., *News announcements, market activity and volatility in the Euro-Dollar foreign exchange market*, *Journal of International Money and Finance*, 2005, 24, 1108-1125
- Giot P., *Market risk models for intraday data*, *European Journal of Finance*, 2005, 11, 309-324
- Giot P., *Relationships between implied volatility indices and stock index returns*, *Journal of Portfolio Management*, 2005, 31, 92-100
- Giot P., Bauwens L., Grammig J., Veredas D., *A comparison of financial duration models via density forecasts*, *International Journal of Forecasting*, 2004, 20, 589-609
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HINDRIKS J.

- Hindriks J., Figuières Ch., Myles G., *Revenue Sharing versus Expenditure Sharing*, *International Tax and Public Finance*, 11, 155-74, 2004.
- Hindriks J., De Donder Ph., *Majority Support for Progressive Income Tax: the Importance of Corner Preferences*, *Public Choice*, 118, 437-49, 2004.

- Hindriks J., Belleflamme P., Yardstick *Competition and Political Agency Problems*, Social Choice and Welfare. 24, 155-69, 2005.
- Hindriks J., *La Concurrence entre Gouvernements : un Impératif de Bonne Gestion Publique*, Regards Economiques, no 29, Avril 2005.
- Hindriks J., *Le Malaise Economique Wallon*, Regards Economiques, no 31, Juin 2005.

THISSE J.-F.

- Thisse J.-F., Picard P.M., Toulemonde E., *Economic Geography and the Distribution of Profits*. Journal of Urban Economics, 56 (2004) 144-167.
- Thisse J.-F., Cavaillès J., Peeters D., Sekeris E., *The Periurban City. Why to live between the suburbs and the countryside?* Regional Science and Urban Economics, 34 (2004), 681-703.
- Thisse J.-F., Tabuchi, Zeng D.-Z., *On the Number and Size of Cities*, Journal of Economic Geography, forthcoming.

2.2. Books

DENUIT M.

- Delwarde, A. and Denuit, M. (2005) *Construction de Tables de Mortalité Périodiques et Prospectives*. Collection Audit-Actuariat-Assurance, Economica, Paris.
- Denuit, M., Dhaene, J., Goovaerts, M.J., and Kaas, R. (2005) *Actuarial Theory for Dependent Risk: Measures, Orders and Models*. Wiley, New York.
- Denuit, M. and Charpentier, A. (2004) *Mathématiques de l'Assurance Non-Vie. Tome I: Principes Fondamentaux de Théorie du Risque*. Collection Economie et Statistique Avancées, Economica, Paris.
- Denuit, M., and Charpentier, A. (2005) *Mathématiques de l'Assurance Non-Vie. Tome II: Tarification et Provisionnement*. Collection Economie et Statistique Avancées, Economica, Paris

THISSE

- *Handbook of Regional and Urban Economics*. Volume IV. Amsterdam, North-Holland, 2004 (co-edited with J.V. Henderson).
- *Villes et économie*. Paris, La Documentation Française (co-edited with F. Maurel, A. Perrot, J.-C. Prager and J.-P. Puig).

DOCQUIER F.

- M. Beine, F. Docquier, *Special Issue on skilled migration*, Brussels Economic Review, Vol 47, n.1 (2004), 184 pages.

VAN PARIJS Ph.

- Ackerman B., ALSTOTT A. & Van Parijs, Ph., *Redesigning Distribution. Basic Income and Stakeholder Grants as Cornerstones for an Egalitarian Capitalism* London : Verso Real Utopias, 2005, 320p.
- Vanderborght Yannick. & Van Parijs, Ph., *L'Allocation universelle*, Paris, La Découverte & Syros ("Repères" n°412), 2005, 122p. Edition allemande: Frankfurt, Campus, 2005. Edition espagnole: Barcelona, Paidós, à paraître. Edition brésilienne: Rio de Janeiro, Record, à paraître.

- Van Parijs, Ph. (éd.), *Cultural Diversity versus Economic Solidarity*, Bruxelles : De Boeck Université (Bibliothèque scientifique Francqui), 2004, 409p.
- Van Parijs, Ph., *Hacia una concepción de la justicia social global*, Medellín : Fundación Confiar, 2002, 148p.

2.3. Book chapters

BAUWENS L.

- Bauwens L., Rombouts J., Econometrics, in: J. Gentle, W. Härdle and Y. Mori (Eds.), *Handbook of Computational Statistics*. Springer Verlag, 2004.

DE LA CROIX D.

- de la Croix D., Azariadis C., *Financial Institutional Reform, Growth, and Equality, in Institutions, Development, and Economic Growth*, T. Eicher and C. Garcia Penalosa eds, MIT Press, 2006.
- de la Croix D., Entry “Economic Growth” in the Social Science Encyclopedia, Adam Kuper and Jessica Kuper eds, Routledge, 2005.

DENUIT M.

- Denuit, M. and Dhaene, J.(2004). *Dependent Risks*. In “Encyclopedia of Actuarial Science”. edited by J.L. Teugels and B. Sundt, Wiley, pp. 464-471.
- Denuit, M. and Müller, A.(2004). *Convexity*. In “Encyclopedia of Actuarial Science”. edited by J.L. Teugels and B. Sundt, Wiley, pp. 362-364.
- Denuit, M. and Müller, A.(2004). *Stochastic orderings*. In “Encyclopedia of Actuarial Science”. edited by J.L. Teugels and B. Sundt, Wiley, pp. 1606-1610.

DOCQUIER F.

- F. Docquier, H. Rapoport, *The Economics of migrants' remittances*, In J. Mercier-Ythier et S.C. Kolm (eds), *Handbook on the economics of reciprocity, giving and altruism*, Handbook series edited by Kenneth Arrow and Michael Intriligator, Elsevier-North Holland, (2005) forthcoming.
- F. Docquier, H. Rapoport, *Skilled migration: The perspective of developing countries*, In J. Baghwati and G. Hanson (eds), *Skilled migration: prospects, problems and policies*, (2005) forthcoming.
- F. Docquier, A. Marfouk, *International migration by educational attainment (1990-2000) - Release 1.1*, In C. Ozden and M. Schiff (eds). *International Migration, Remittances and Development*, McMillan and Pargrave: New York (2005).
- M. Beine, F. Docquier, H. Rapoport, *Brain drain and economic growth: theory and evidence*, in: C. Belfield, *Modern Classics in the Economic of Education*, Edward Elgar Publishing, Cheltenham. Forthcoming.

THISSE J.-F.

- Thisse J.-F., Ottaviano G., *Agglomeration and Economic Geography*, in J.V. Henderson and J.F. Thisse, eds., *Handbook of Regional and Urban Economics*. Volume IV. Amsterdam, North-Holland, 2004, 2564-2608.

2. Other Publications

DEHEZ P.

- Dehez P., Licandro O., *From uncertainty to macroeconomics: An interview of Jacques Drèze* Macroeconomics Dynamics, 2005

DE LA CROIX D.

- de la Croix D., Lepers J., *Financement des pensions et taux d'activité des travailleurs âgés : Une proposition alternative*, Regards Economiques, 32, 2005.

DE SAINT-GEORGES P.

- de Saint-Georges, P. (2004) *De la communication du risque au risque de la communication*, in Annales de l'association belge de radioprotection, vol.28, n° 4, 2003, pp 333-344.
- de Saint-Georges, P et Cultiaux J., (2004), *Métiers de la communication d'organisation et processus de légitimation*, in Cahiers du LASCO, n°1, Louvain-la-Neuve, UCL, Département de communication.

GIOT P.

- Giot P., *Stocks, bonds and the equity risk premium: some recent academic perspectives*, Revue bancaire et financière, 2005/3, 184-190

VAN PARIJS Ph.

- VAN PARIJS Philippe. *Wat mogen academici zeggen? En wat moeten ze zeggen?* Etische Perspectieven
- VAN PARIJS Philippe. *Le trilemme de la politique migratoire*, Politique (Bruxelles), hors série n°1, 2005, pp. 94-95. Texte préparé à l'occasion du 50e anniversaire du CIRE (Coordination et Initiatives pour Réfugiés et Etrangers)
- VAN PARIJS Philippe. *Una renda bàsica per a tothom. La Revista Online del Consell de Treball Econòmic i Social de Catalunya* (Barcelona) 18, 2005. Traduction catalane de *A Basic Income for All*, Boston Review 25 (5), 2000, 4-8.
- VAN PARIJS, Ph., *L'anglais lingua franca de l'Union européenne : impératif de solidarité, source d'injustice, facteur de déclin ?* Economie publique 15, 2004, pp. 13-32. Version modifiée de la leçon inaugurale de la Chaire Francqui 2004 de l'Institut d'Etudes européennes de l'Université libre de Bruxelles, antérieurement diffusée sur le site de Notre Europe (Paris).

Ranking of Scientific Journals

In order to better appreciate our research productivity, we established a ranking of the main journals of interest in the field of management in general and in the areas of activities of the School in particular. This ranking was established based on three criteria. The first criteria is the reputation of the journals as reflected by the ranking of the journal by other European schools and on the other hand upon the disciplinary recognition of the journal as attested by widely recognised indicators such as the science citation index.

Name	ranking
Academy of Management Journal	A
Academy of Management Review	A
Accounting Organizations and Society	A
Accounting Review	A
ACM Transactions on Database Systems	A
Administrative Science Quarterly	A
American Economic Review	A
American Journal of International Law	A
American Journal of Sociology	A
American Sociological Review	A
Annual Review of Psychology	A
Annual Review of Sociology	A
Applied Mathematical Finance	A
Artificial Intelligence	A
Astin Bulletin	A
British Journal of Industrial Relations	A
Brooking Papers on Economic Activity	A
Cambridge Journal of Economics	A
Cognitive Psychology	A
Computational Optimization and Applications	A
Contemporary Accounting research	A
Decision Sciences	A
Econometrica	A
Economic Journal	A
Economic Theory	A
Economica	A
Economics Letters	A
European Business Forum	A
European Economic Review	A
European Journal of Industrial Relations	A
European Journal of Operational Research	A
European Journal of Political Economy	A
Fuzzy Sets and Systems	A
Games & Economic Behaviour	A
Harvard Business Review	A
Harvard Law Review	A

Human Resource Management (GB)	A
Human Resource Management (WILEY USA)	A
IEEE	A
IEEE Communications Magazine	A
IEEE Journal on Selected Areas in Communications	A
IEEE Transactions on Computers	A
IEEE Transactions on Knowledge and Data Engineering	A
IEEE Transactions on Neural Networks	A
IEEE Transactions on Software Engineering	A
IIE Transactions	A
Industrial and Corporate Change	A
Industrial and Labor Relations Review	A
Information Processing & Management	A
Information Systems	A
Information Systems Research (Informs)	A
INFORMS Journal on Computing	A
Insurance : Mathematics and Economics	A
International Economic Review	A
International Journal of Autonomous Agents and Multi-Agent Systems	A
International Journal of Game Theory	A
International Journal of Human Resources Management (ROUTLEDGE)	A
International Journal of Industrial Organization	A
International Journal of Production Research	A
International Journal of Research in Marketing	A
Journal of Abnormal and Social Psychology	A
Journal of Accounting and Economics	A
Journal of Accounting and Public Policy	A
Journal of Accounting Literature	A
Journal of Accounting Research	A
Journal of Applied Behavioral Science	A
Journal of Applied Psychology	A
Journal of Banking and Finance	A
Journal of Business	A
Journal of Business and Economic Statistics	A
Journal of Business Venturing	A
Journal of Consumer Research	A
Journal of Cross-Cultural Psychology	A
Journal of Econometrics	A
Journal of Economic Dynamics and Control	A
Journal of Economic Literature	A
Journal of Economic Perspectives	A
Journal of Economic Theory	A
Journal of Finance	A
Journal of Financial and Quantitative Analysis	A
Journal of Financial Economics	A
Journal of Forecasting	A
Journal of Human Resources	A
Journal of Industrial Economics	A
Journal of International Business Studies	A
Journal of International Economics	A

Journal of International Money and Finance	A
Journal of Law and Economics	A
Journal of Law, Economics and Organization	A
Journal of Management	A
Journal of Management Information Systems	A
Journal of Management Studies	A
Journal of Marketing	A
Journal of Marketing Research	A
Journal of Monetary Economics	A
Journal of Occupational and Organizational Psychology	A
Journal of Operations Management	A
Journal of Organizational Behavior	A
Journal of Personality and Social Psychology	A
Journal of Political Economy	A
Journal of Public Economics	A
Journal of Retailing	A
Journal of Risk and Uncertainty	A
Journal of the Academy of Marketing Science	A
Journal of the American Statistical Association	A
Journal of the Operational Research Society	A
Journal of the Royal Statistical Society : Series A	A
Journal of the Royal Statistical Society : Series B	A
Journal of Vocational Behavior	A
M.I.S. Quarterly	A
Management Accounting Research	A
Management Science	A
Manufacturing and Services Operations Management	A
Marketing Letters	A
Marketing Science	A
Mathematical Finance	A
Mathematical Programming. Series A & B	A
Mathematics of Operations Research	A
Neural Networks	A
North American Actuarial Journal	A
Operations Research	A
Organization Science	A
Organization Studies	A
Organizational Behavior and Human Decision Processes	A
Personnel Psychology	A
Production and Operations Management Journal	A
Psychological Bulletin	A
Psychological Review	A
Psychometrika	A
Quarterly Journal of Economics	A
Rand Journal of Economics	A
Research in Organizational Behavior	A
Research Policy	A
Review of Accounting Studies	A
Review of Economic Studies	A
Review of Economics and Statistics	A

Review of Financial Studies	A
Revue Economique	A
Revue Trimestrielle de Droit Civil	A
Scandinavian Journal of Economics	A
SIAM Journal on Computing	A
Sloan Management Review	A
Strategic Management Journal	A
Transportation Science	A
Abacus	B
Academy of Management Executive	B
Accounting & Business Research	B
Accounting and Finance	B
Accounting Auditing & Accountability Journal	B
Accounting History	B
Accounting Horizons	B
ACM Computing Surveys	B
ACM Transactions on Informations Systems	B
Actualité Droit et Gestion	B
Actu-L	B
Advances in Consumer Research	B
Advances in Management Accounting	B
American Behavioral Scientist	B
American Journal of Psychology	B
American Psychologist	B
Annales d'Economie et de Statistique	B
Annals of Operations Research	B
Applied Psychology : An International Review	B
Banque et Marchés	B
Basic and Applied Social Psychology	B
Biometrics	B
British Accounting Review	B
British Journal of Management	B
British Journal of Social Psychology	B
British Journal of Sociology	B
Bulletin Français d'Actuariat	B
Bulletin Joly Bourse et Produits financiers	B
Business & Society	B
Business Strategy and the environment	B
California Management Review	B
Canadian Journal of Economics	B
Clunet	B
Common Market Law Review	B
Communications of the ACM	B
Communications of the AIS	B
Comptabilité Contrôle Audit	B
Computer Journal	B
Computers and OR	B
Creativity and Innovation Management	B

Critical Perspectives on Accounting	B
Data and Knowledge Engineering	B
Decision Support Systems	B
Droit Social	B
Economic Inquiry	B
Employee Relations	B
Entrepreneurship Theory and Practice (ET&P)*	B
European Accounting Review	B
European Financial Management	B
European Journal of Economic and Social Systems	B
European Journal of Finance	B
European Journal of Information Systems	B
European Journal of Management	B
European Journal of Marketing	B
European Journal of Work and Organizational Psychology	B
European Management Journal	B
Finance	B
Finance and Stochastics	B
Finance Contrôle Stratégie	B
Financial Accountability & Management	B
Financial Analysts Journal	B
Financial Management	B
Financial Markets and Portfolio Management	B
Fuzzy Economic Review	B
Geneva Papers on Risk and Insurance Theory	B
Gérer et Comprendre	B
Gestion : Revue Internationale de Gestion	B
Gestion 2000	B
Group & Organization Management	B
Group Decision and Negotiation	B
Human Relations	B
Human Ressource Management Journal	B
Human Systems Management	B
IBM Systems Journal	B
Industrial Marketing Management	B
Industrial Relations (Berkeley)	B
Industrial Relations Journal	B
Information and Management	B
Information and Software Technology	B
Interacting with Computers	B
Interfaces	B
International Business Review	B
International Journal of Accounting	B
International Journal of Advertising	B
International Journal of Flexible Manufacturing Systems	B
International Journal of Forecasting	B
International Journal of Logistics Management	B
International Journal of Management	B
International Journal of Manpower	B
International Journal of Market Research	B

International Journal of Operations & Production Management	B
International Journal of Organizational Computing and Electronic Commerce	B
International Journal of Production Economics	B
International Journal of Quality & Reliability Management	B
International Journal of Technology Management	B
International Review of Financial Analysis	B
International Studies of Management and Organization	B
International Transactions in Operational Research	B
Journal of Accounting and Business Research	B
Journal of Accounting, Auditing and Finance	B
Journal of Advertising	B
Journal of Advertising Research	B
Journal of Applied Business Research	B
Journal of Applied Probability	B
Journal of Applied Social Psychology	B
Journal of Applied Statistics	B
Journal of Banking Finance and Accounting	B
Journal of Behavioral Decision Making	B
Journal of Brand Management	B
Journal of Business Ethics	B
Journal of Business Finance and Accounting	B
Journal of Business Logistics	B
Journal of Business Research	B
Journal of Business Strategy	B
Journal of Comparative Economics	B
Journal of Consumer Psychology	B
Journal of Consumer Satisfaction	B
Journal of Corporate Finance	B
Journal of Cost Management	B
Journal of Derivatives	B
Journal of Economic Behaviour and Organization	B
Journal of Economic, Dynamics and Control	B
Journal of Economics and Business	B
Journal of Economics and Management Strategy	B
Journal of Empirical Finance	B
Journal of Engineering and Technological Management	B
Journal of European Industrial Training (GB)	B
Journal of Experimental Social Psychology	B
Journal of Financial Intermediation	B
Journal of Financial Markets	B
Journal of Financial Services Research	B
Journal of Future Markets	B
Journal of General Management	B
Journal of Interactive Marketing	B
Journal of Macroeconomics	B
Journal of Management Accounting Research	B
Journal of Management Inquiry	B
Journal of Managerial Psychology (GB)	B
Journal of Manufacturing and Operations Management	B
Journal of Marketing Management	B

Journal of Money, Credit and Banking	B
Journal of Multi-criteria Decision Analysis	B
Journal of Organizational and Occupational Psychology	B
Journal of Organizational Change Management	B
Journal of Personal Selling and Sales Management	B
Journal of Portfolio Management	B
Journal of Product and Brand Management	B
Journal of Product Innovation Management	B
Journal of Productivity Analysis	B
Journal of Purchasing and Supply Management	B
Journal of Real Estate Finance and Economics	B
Journal of Risk	B
Journal of Risk and Insurance	B
Journal of Services Marketing	B
Journal of Services Research	B
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Journal of the Royal Statistical Society : Series C	B
Journal of Times Series Analysis	B
Le Travail Humain	B
Leadership Quarterly	B
Long Range Planning	B
Management (M@n@gement)	B
Management Decision	B
Management International Review	B
Management Learning	B
Management Revue. The International Review of Management Studies	B
Mathematical Methods of Operations Research	B
Naval Research Logistics	B
Neurocomputing	B
Omega	B
Operational Research Letters	B
Organization	B
Organization Dynamics	B
Personnel Review	B
Production and Inventory Management	B
Production Planning & Control	B
Psychological Reports	B
Psychologie du Travail et des Organisation	B
Psychology and Marketing	B
Public Choice	B
Public Opinion Quarterly	B
R&D Management	B
Recherche et Applications en Marketing	B
Recueil Dalloz	B
Relations Industrielles - Industrial Relations	B
Research and Technology Management	B
Review of Derivatives Research	B
Review of Finance (formerly European Finance Review)	B

Review of International Economics	B
Review of Quantitative Finance and Accounting	B
Revue d'Economie Financière	B
Revue d'Economie Politique	B
Revue de Droit des Affaires Internationales	B
Revue de Gestion des Ressources Humaines	B
Revue de Statistique Appliquée	B
Revue des Sociétés	B
Revue Française de Gestion	B
Revue Française de Sociologie	B
Revue Internationale de Psychologie Sociale	B
Revue Québécoise de Psychologie	B
Revue Trimestrielle de Droit Commercial et Economique	B
Revue Trimestrielle de Droit Européen	B
Semaine Juridique	B
Social Choice and Welfare	B
Sociologie du Travail	B
Sociology	B
Southern Economic Journal	B
Stochastics	B
Technological Forecasting and Social Change	B
Transportation Journal	B
Transportation Research	B
Work Employment & Society	B
Accountancy	C
Belgian Actuarial Bulletin	C
Biometrical Journal	C
Bulletin des Actuaire Suisses	C
Bulletin d'information de l'IRE	C
CESIfo Economic Studies	C
Communications in Numerical Methods in Engineering	C
Competitive Intelligence Review	C
Corporate Reputation Review	C
Der Markt	C
Déviance et société	C
Economy Informatics	C
Expansion Management review	C
Finéco	C
German Actuarial Bulletin	C
Humanisme et Entreprise	C
I.D.J.	C
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International Journal of Health Care Technology and Management	C
International Journal of Medical Marketing	C
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Journal of Interactive Advertising	C
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Journal of System Science and System Engineering	C

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The European Investment Review	C
The Marketing Review	C
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Universia Business Review	C
Virtual Reality	C

