

LOUVAIN SCHOOL OF MANAGEMENT

RESEARCH REPORT

2006

UNIVERSITÉ CATHOLIQUE DE LOUVAIN

IAG - Louvain School of Management
Université catholique de Louvain
Place des Doyens, 1
1348 Louvain-la-Neuve, Belgium
www.iag.ucl.ac.be

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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.

In the late 1990's the School decided to increase its international recognition. This has led to the redesign of our academic programs as well as of our internal organization. A major achievement has been reached in 2006, namely the EQUIS accreditation. We are very proud of it and hope to use it as a tool for further progress in the quality of our programs and research.

Research at the Louvain School of Management is centered on 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 centers 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 during 2006.

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.*

SENIOR RESEARCHERS

Agrell P,
Chevalier Ph.,
Fortz B,
Fourny M.,
Keymolen G.,
Loute E.,
Pochet Y.,
Semal P.

JUNIOR RESEARCHERS

Botton Q.,
Brusset X.,
Lorenz M.,
Macq J-F.,
Strack G.,
Tancrez J-S.,
Umit H.,
Van Den Schrieck J-C.

INVITED RESEARCHERS

Bogetoft P., Copenhagen Business School
Jörnsten K., Norwegian School of Economics and Business Administration
Vandaele N., KUL, Leuven
Norrman A., Lund University

2. Scientific Publications

2.1. Articles published in Scientific Journals

- Loute Etienne, Pastor Frank, Trillat Malorie, Pastor Joseph, *Stress-based upper-bound method and convex optimization: case of the Gurson material*, Comptes Rendus Mécanique (C.R.M.) 334, p. 213-219, 2006.
- Tancrez Jean-Sébastien, Semal Pierre, Chevalier Philippe, *Histogram based bounds and approximation for production lines*, European Journal of Operation Research, A paraître, 2006.
- Chevalier Philippe, Van Den Schrieck Jean-Christophe, *Optimizing the staffing and routing of small size hierarchical call-centers*, Production and Operations Management, A paraître, 2006.

2.2. Books

- Pochet Yves, Wolsey Laurence, *Production planning by mixed integer programming*, Springer Verlag, New York, 2006.
- Tyteca Daniel, Hermy M., Mahy G., Vanthournout E., Haumont F., *Feasibility of Ecological Networks: Ecological, Economic, Social and Legal Aspects*, 2006, Belgian Science Policy, Scientific Support Plan for a Sustainable Development Policy, <numeroVol /> .

2.2. Book chapters

- Semal Pierre, Tancrez Jean-Sébastien, *The bounding discrete phase-type method*, A.N.Langville and W.. Stewart, Boson Books, 2006, p. 257-269.
- Umit Hakan, *An Open Source Traffic Engineering Toolbox*, collectif, 2006.

3. Conferences

- Agrell Per Joakim, *Incentive Regulation in the German Electricity and Gas Sectors: efficiency and reliability to set the yardstick*, Bundesnetzagentur International Scientific Conference, Bonn, 25-26.4, 2006.
- Agrell Per Joakim, *Network Regulation in Using Hybrid Approach: Frontier Analysis and Engineering Network Models*, North American Productivity Workshop (NAPW2006), New York City, 28-30.6, 2006.
- Agrell Per Joakim, *Regulatory information, integration and competition in the European network industries*, 21st European Conference on Operations Research (EURO XXI), Reykjavik, p. 2-5.7, 2006.
- Agrell Per Joakim, Bogetoft P., *EU-DEEP New Directions in DER Regulation Research*, Workshop on Regulation of Multi-Utilities, BI School of Management, Oslo, 30.10, 2006.

- Agrell Per Joakim, *Normative Models in the Regulation of Electricity Distribution*, FSR Workshop on Improving and Extending Incentive Regulation, European University Institute, Florence, 24.11, 2006.
- Agrell Per Joakim, *The Tale of Three Animals in the Jungle of the New Norwegian Network Regulation*, EBL Nettkonferansen (EBL Network conference), Oslo, 6.12, 2006.
- Botton Quentin, collectif, *Planning drinking for airplanes*, Proceedings of the fifty-second European Study Group with Industry, 2006, CWI Syllabus 55, p. 53-72.
- Botton Quentin, Fortz Bernard, *Decomposition methods for the optimization of survivable telecommunications networks*, Belgian National Operations Research Conference, Gent, 19-20 january, 2006.
- Botton Quentin, Fortz Bernard, *Extended node-arc formulation for the hop-constrained network design problem*, EUROXXI, 21st European Conference on Operational Research, Reykjavik, July 2-5, 2006.
- Brusset Xavier, *Endogenous choice of procurement contracts*, International Conference on Information Systems, Logistics and Supply Chain, Lyon, 14/05, 2006.
- Brusset Xavier, Agrell Per Joakim, *Supply chain cannibalization and coordination in process definitions*, 21st European Conference on Operations Research (EURO XXI), Reykjavik, 2-5.7, 2006.
- Brusset Xavier, Agrell Per Joakim, Bogetoft P., *Transportation Procurement Support using Data Envelopment Analysis*, 14th International Working Conference on Production Economics, Innsbruck, p. 20-24.2, 2006.
- Chevalier Philippe, Vits Jeroen, *Inspection and Quality Improvement in Manufacturing Systems*, INFORMS Annual Meeting 2006, Pittsburg, USA, nov., 2006.
- Chevalier Philippe, Macq Jean-François, Van Den Schrieck Jean-Christophe, *Improving the Hayward Approximation for Overflow Models*, 21st European Conference on Operations Research (EURO XXI), Reykjavik, July, 2006.
- Chevalier Philippe, Van Den Schrieck Jean-Christophe, *Using Loss Models to Approximate Queueing Models for Call Centers*, POMS 2006: Seventeenth Annual Conference of the Production and Operations Management Society, Boston (USA), April, 2006.
- Chevalier Philippe, Van Den Schrieck Jean-Christophe, *Approximating Queueing Systems with Loss Models*, EURO Working Group on Stochastic Modelling, Amsterdam, April, 2006.
- Chevalier Philippe, Macq Jean-François, *Optimizing the Transmission Reliability for Multipath Routing in Communication Networks*, EURO Working Group on Stochastic Modelling, Amsterdam, April, 2006.
- Umit Hakan, *Intra-domain Weight Optimization Using Column Generation*, 10th International Workshop on Combinatorial Optimization, Aussois, France, 9-13 January, 2006.
- Umit Hakan, *IGP weight optimization using column generation*, 19th International Symposium on Mathematical Programming, Rio de Janeiro, Brazil, 30/07-4/08, 2006.
- Semal Pierre, Tancrez Jean-Sébastien, *Continuous production line analysis by bounding discretization*, 6^{ème} Conférence Francophone de Modélisation et Simulation. Modélisation, Optimisation et Simulation des Systèmes : Défis et Opportunités, Mons, B, 2006.

- Simeonova Iliyana, Warichet François, Bastin Georges, Dochain Denis, Pochet Yves, *Feedback stabilization of the operation of an hybrid chemical plant*, 2nd IFAC Conference on Analysis and Design of Hybrid Systems ADHS 06, Alghero, Sardinia, Italy, June 7-9, 2006, p. 191-198.
- Simeonova Iliyana, Warichet François, Bastin Georges, Dochain Denis, Pochet Yves, *Feedback stabilization of an optimally scheduled operation of an hybrid chemical plant*, Joint CTS-HYCON Workshop on Nonlinear and Hybrid Systems, Paris, France, July 10-12, 2006, p. 689-699.
- Tancrez Jean-Sébastien, Semal Pierre, *Continuous Production Line Modelling by Bounding Discretization*, 3rd CEMS SCM Seminar, Riezlern, Austria, January 25-29, 2006, 2006.
- Tancrez Jean-Sébastien, Semal Pierre, *The Bounding Discrete Phase-type Method*, MAM 2006: Markov Anniversary Meeting, Charleston, SC, USA, June 12-14, 2006, Amy N. Langville, William J. Stewart, Bosen Books, Raleigh, NC, USA, 2006, p. 257-270.
- Tancrez Jean-Sébastien, Semal Pierre, *Production Line Analysis by Bounding Discretization*, MOSIM'06 : 6^{ème} Conférence Francophone de MODélisation et SIMulation, Rabat, Marocco, April 3-5, 2006, M. Gourgand, F. Riane, Lavoisier, 2006, p. 1555-1565.

4. Other publications

- Botton Quentin, *Benders decomposition for survivable telecommunications networks*, IAG-CONNECT IAG-ALUMNI MAGAZINE, p. 11-12, 2006.
- Bogetoft P., Agrell Per Joakim, *Network investments, network regulation and DSO-DER interaction*, Fondazione Eni Enrico Mattei (FEEM), 2006, p. 24. Working Papers EU-DEEP, Vol.1.
- Agrell Per Joakim, Bogetoft P., *Economic Regulation of DER: the Norm Model Approach*, Fondazione Eni Enrico Mattei (FEEM), 2006, p. 63. Working Papers EU-DEEP, Vol.1.

5. International research activities

5.1. Workshops and Conferences

AGRELL PER

- LIS Belgian-Dutch Research Seminar on Logistics Management. Erasmus University Rotterdam, September 29

BOTTON QUENTIN

- Organizing Member of the conference INOC 2007 (International Network Optimization Conference), Spa, Belgium, April 22-25

5.2. Academic Visits

AGRELL PER

Regular Visits to Other Institutions

- Lund University, Dept of Logistics, Nov 2006
- Norweigan School of Economics and Business Administration, April 2006

CHEVALIER PHILIPPE

Visits to Other Institution

- Koç University, Istanbul, nov2006

TANCREZ JEAN-SÉBASTIEN

Visits to Other Institution

- University College Dublin, UCD School of Computer Science and Informatics, Information Hiding Laboratory, Jan->Jun06

UMIT HAKAN

Visits to Other Institution

- Bernard Fortz, ULB, Département d'Informatique

6. Research collaborations

6.1. Research contracts

AGRELL PER

- *Structural Efficiency and Reallocation: Measurement and Mechanism Design*

CHEVALIER PHILIPPE

- *Risk Management system for the emergency services of Belgium*

Financial Support : Ministère de l'Intérieur

Short description :

This project aims at developing a decision support system for the Ministry of the Interior to optimize the design of the emergency response system. It is designed to effectively and optimally manage fire-stations locations and allocations. The originality of this project consists in including a risk modelling approach developed at a national scale. This multiscale GIS-system includes a thorough representation of the physical, human and economic spatial realities, a risk modelling approach, an adequate optimal location and allocation model taking into account the queuing as well as a staffing problems. The final result is an operational interactive tool for defining locations, allocations, staffing, response times, cost/efficiency trade-off, etc. conceived in an assessment as well as a prospective context: it has indeed numerous functionalities including rapid modification of the modelling conditions to allow for immediate scenario analysis, multi-scale analysis, as well as prospective analysis.

6.2. Doctorats (participations dans les jurys)

AGRELL PER

- *Signe Anthon, Incentive Mechanisms to Enhance Environmental Benefits, Dept of Natural Resources Economics, Copenhagen,*

Nov 17, 2006, Copenhagen University

CHEVALIER PHILIPPE

- *Nico Goossens, "Blocking Systems with Zero Buffer : a kanban-like approach", Universiteit Antwerpen*
- *Simon Auke Pot, "Planning and Routing Algorithms for Multi-Skill Contact Centers", Vrije Universiteit Amsterdam*
- *Oualid Jouini, "Stochastic Modeling in Call Centers Operations Management", Ecole Centrale de Paris*

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.

On one hand, CEMIT studies how IT and communication technology developments influence the way organizations conduct their business today. It focuses on the organizational foundations of management information systems, their strategic role and the organizational and management changes driving e-commerce, e-business and the emerging digital firm.

On the other hand, CEMIT research deals with issues from human-machine interactions to strategic business-IT alignment and knowledge management through databases design and management, data cleansing, data mining, decision-support systems, requirements analysis and specifications, e-business, ERP II and Web applications, object and agent-oriented technologies, or development methodologies of information and knowledge systems.

CEMIT implies today more than 35 professors and researchers. These last years, ten PhD theses have been conducted.

The Centre is under re-organization and extension to involve also Information Management and Technology research entities from the other LSM partners.

SENIOR RESEARCHERS

Prof. Manuel Kolp
Prof. Olivier de Broqueville
Prof. Marco Saerens
Prof. Jean Vanderdonckt
Prof. Alain Pirotte
Prof. Stéphane Faulkner
Prof. Thierry Vandenberghe
Prof. Philippe Wilmes

RESEARCHERS

Youssef Achbany
 Laurent Bouillon
 Benoît Collignon
 Adrien Coyette
 Murielle Florins
 François Fouss
 Hoang Thi Thuy Hang
 Caroline Herssens
 Anne-Cécile Jeandrain
 Tai Duy Nguyen
 Yves Wautelet
 Luh Yen
 Benoît Collignon
 Monica Gemo
 Juan Manuel Gonzalez Calleros
 Donatien Grolaux
 Josefina Guerrero García
 Benjamin Michotte
 Adrian Stanciulescu
 Thi Ai Vi Tran
 Daniela Trevisan
 Christian Van Brussel
 Suzanne Kieffer
 Francisco Javier Martínez Ruiz
 Hildeberto Mendonca
 Kênia Sousa
 Marco Winckler
 Ivan Jureta
 Stéphane Dehousse

RESEARCH PARTNERSHIPS

CEMIT collaborates with other universities such as the Université libre de Bruxelles, the university of Toronto, the university of Trento, the university of Grenoble I, the Xerox Research Center Europe, the university of Ancona or Stanford University. ISYS also conducts educational and scientific missions in Asia, Africa, North and South America and Eastern Europe. It is also involved in various research projects at the regional, national and European level.

Other collaborations include the University of Loughborough, U.K., University of Toulouse I, France, INRIA Rocquencourt, France, Universidade Fortaleza, Brazil, University of Sciences and Technologies of Lille I, France, University of Technology of Compiègne, France, University of Valenciennes and Haut-Hainaut Cambresis, France, University of Pernambuco Brazil, RWTH Aachen, Germany, City University, U.K., Research center IRST, Italy.

CEMIT also maintains collaborations in the context of specific training or advises, development and research projects with industries and enterprises (e.g. the Retirement Administration, the SSTC, Belgacom, Carsid (Duferco/Unisor), SOPRES, Motorola, Dexia, CITOBİ, Denali, the Post, Sonaca, Cediti, Ansys/Fluent, TechnofuturTIC...).

Some specific examples of such partnerships:

CORPORATE AGREEMENTS

CEMIT has established a higher education and research agreement (<http://www.isys.ucl.ac.be/sap>) with SAP, one of the market leaders for ERP II and E-Business technologies to benefit from their solutions, architectures and infrastructures for conducting doctoral research and teaching at the IAG Louvain School of Management.

CEMIT is also partially supported by ING through the Chair in e-Management that aims at developing activities around its three main missions: teaching addressed to students from first degree and postgraduate students as well as to executives; research with multidisciplinary purpose (for example, undertaking of doctoral researches, organization of focus groups), service to the community (help on upon request from companies, public institutions, etc.).

NETWORKING

CEMIT takes part in the Agentcities.NET (<http://www.agentcities.org/EUNET/>) partnership that is a Take Up Action, TRIAL/TESTBED support activity, helping create an open dynamic service environment based on Agent technology and make it accessible to potential users. The project acts as a support to European / worldwide research and industry groups wishing to participate in the development of an open, worldwide interoperable agent network (Agentcities). The project's objectives are to enable technology transfer by bringing together key players from related industries (from eCommerce firms to Internet tool makers, systems Integration firms and hosting firms - potential users of the technology) with researchers and developers working on the testbed infrastructure and services.

EXECUTIVE EDUCATION

CEMIT has developed a long-term collaboration with the ICT competences centre TechnofuturTIC (<http://www.technofuturtic.be>) supported by the European Commission, Agoria, Belgium's largest employers' organization and trade association and the Walloon Region to develop and conduct different executive education ICT programs for the enterprise and industry. Such programs deal with software project management, information systems modeling and design, data analysis or enterprise systems implementations.

2. Scientific Publications

2.1. Articles published in Scientific Journals

- L. Penserini, M. Kolp and L. Spalazzi. “*Social Oriented Engineering of Intelligent Software*” In International Journal of Web Intelligence and Agent Systems (WIAS), 11(3): 14-36, IOS Press, 2006
- M. Kolp, P. Giorgini and J. Mylopoulos. “*Multi-Agents Architectures as Organizational Structures*”. In Journal of Autonomous Agents and Multi-Agent, Kluwer Academic Publishing, 13(1): 3-25, 2006.
- I. Jureta, M. Kolp, S. Faulkner. “*Multi-Agent Patterns for Deploying Online Auctions*”. In International Journal of Intelligent Information Technologies, 2(3): IGI Publishing, 21-39, 2006.
- Achbany Y., Fouss F., Yen L., Pirotte A. & Saerens M, “*Optimal Tuning of Continual Online Exploration in Reinforcement Learning*”. In Artificial Neural Networks (ICANN), 16:790–800, LNCS Vol. 4131, Springer-Verlag, Berlin, 2006, pp.
- I. Jureta, S. Faulkner and M. Kolp. *Formalizing Agent-Oriented Enterprise Models*. In Agent Oriented Information Systems (AOIS), 8:184-199, LNCS 3529 Springer, 2006.
- Muñoz Arteaga Jaime, Martinez Ruiz Francisco Javier, Vanderdonckt Jean, Ochoa Zezatti C.A, *Categorization of Rich Internet Applications based on Similitude Criteria*, Hifen Review 30, Fascicule 58, p. 161-166, 2006.
- Winckler Marco, *Cascading Dialog Modeling*, 2006, International Journal on Web Engineering, A paraître.

2.2. Books

- M. Kolp, P. Bresciani, B. Hendersen-Sellers, M. Winikoff (Eds.), *Agent Oriented Information Systems VIII* Lecture Notes in Computer Science, Springer, 2006, 291 p., ISBN: 978-3-540-48291-8, Germany

3. Conferences

3.1. Conferences with proceedings

- Kolp Manuel, Dehousse Stéphane, Liu L., Faulkner Stéphane, Mouratidis H., *Modeling Delegation through an i*-based Approach*, 6th IEEE International Joint Conference on Web Intelligence and Intelligent Agent Technology, Hong Kong, 2006.
- Kolp Manuel, Faulkner Stéphane, *An Architectural Description Language for BDI Multi-Agent Systems*, 9th Agent Oriented Information Systems Conference, Hakodate, Japan, 2006.
- Kolp Manuel, Dehousse Stéphane, Faulkner Stéphane, Mouratidis H., Giorgini P., *Reasoning about Willingness in Networks of Agents*, International Workshop on Software Engineering for Large-scale Multi-Agent Systems, Shangai, China, 2006.

- Yen Luh, Sacerens Marco, Pirotte Alain, *An experimental investigation of graph kernels on a collaborative recommendation task*, 2006 IEEE International Conference on Data Mining, 2006.
- Yen Luh, Achbany Youssef, Fouss François, Sacerens Marco, Pirotte Alain, *Optimal Tuning of Continual Online Exploration in Reinforcement Learning*, 16th International Conference on Artificial Neural Networks (ICANN 06), Berlin, 2006.
- Sousa Kenia Soares, Mendonça Hildeberto, Furtado Elizabeth, *Applying a Multi-Criteria Approach for the Selection of Usability Patterns in the Development of DTV Applications*, Simpósio sobre fatores humanos em sistemas computacionais, Natal, Brasil, 2006.
- Martinez Ruiz Francisco Javier, Muñoz Arteaga Jaime, Vanderdonckt Jean, Gonzalez Calleros Juan Manuel, *A First Draft of a Model-driven Method for Designing Graphical User Interfaces of Rich Internet Applications*, Proceedings of 4th Latin American Web Congress LA-Web'2006, Puebla Cholula, 25-27 October 2006, 2006, p. 32-38.
- Martinez Ruiz Francisco Javier, Muñoz Arteaga Jaime, Vanderdonckt Jean, *Transformation of XAML schema for RIA using XSLT & UsiXML*, Proc. of XIX Congreso Nacional y V Congreso Internacional de Informática y Computación de la ANIEI, Avances en Tecnologías de la Información CNCIIC'2006. Tuxtla Gutiérrez, 25-27 October 2006.
- Vanderdonckt Jean, Coyette Adrien, *Vers un prototypage des interfaces graphiques incluant vraiment l'utilisateur final*, Proc. of 10^{ème} Colloque Int. sur l'Ergonomie et l'Informatique Avancée ERGO-IA'2006, Biarritz, 11-13 October 2006, 2006, p. 31-42.
- Abrahão Silvia, Insfran Emilio, Vanderdonckt Jean, *Usabilidad en Entornos MDA: Propuesta Y Estudio Experimental*, Proc. of XV Jornadas de Ingeniería del Software y Bases de Datos JISBD'2006, Sitges, 3-6 October 2006, 2006, p. 23-33.
- De Boeck Johan, Gonzalez Calleros Juan Manuel, Coninx Karin, Vanderdonckt Jean, *Open Issues for the development of 3D Multimodal Applications from an MDE perspective*, Proc. of 2nd Int. Workshop on Model Driven Development of Advanced User Interfaces MDDAUT'2006, Geneva, 2 October 2006, CEUR Workshop proceedings, 2006, 214, p. 11-14.
- Coyette Adrien, Vanderdonckt Jean, Limbourg Quentin, *SketchiXML: An Informal Design Tool for User Interface Early Prototyping*, Proc. of RISE'2006 Workshop on Rapid User Interface Prototyping Infrastructures Applied to Control Systems RUIPIACS'2006, Geneva, 13 September 2006, 2006.
- Lepreux Sophie, Vanderdonckt Jean, Michotte Benjamin, *Visual Design of User Interfaces by (De)composition*, Proc. of 13th Int. Workshop on Design, Specification, and Verification of Interactive Systems DSV-IS'2006, Dublin, 26-28 July 2006, Lecture Notes in Computer Science, 2006, 4323, p. 157-170.
- Stanciulescu Adrian, Vanderdonckt Jean, *Design Options for Multimodal Web Applications*, Proc. of 6th Int. Conf. on Computer-Aided Design of User Interfaces CADUI'2006, Bucharest, 6-8 June 2006, Computer-Aided Design of User Interfaces, 2006, 5, p. 41-56.
- Florins Murielle, Montero Francisco, Vanderdonckt Jean, Michotte Benjamin, *Splitting Rules for Graceful Degradation of User Interfaces*, Proc. of 8th Int. Working Conference on Advanced Visual Interfaces AVI'2006, Venezia, 23-26 May 2006, 2006, p. 59-66.
- Trevisan Daniela, Nedel Luciana, Macq Benoît, Vanderdonckt Jean, *Detecting Interaction Variables in a Mixed Reality System for Maxillofacial-guided Surgery*, Proc. of 8th SBC

- Symposium on Virtual Reality SVR'2006, Belém do Pará, 2-5 May 2006, 2006, 1, p. 39-50.
- Florins Murielle, Montero Francisco, Vanderdonckt Jean, Michotte Benjamin, *Splitting Rules for Graceful Degradation of User Interfaces*, Proc. of 10th ACM Int. Conf. on Intelligent User Interfaces IUI'2006, Sydney, 29 January-1 February 2006, 2006, p. 264-266.
 - Molina José Pascal, Vanderdonckt Jean, Gonzalez Pascual, *Direct Manipulation of User Interfaces for Migration*, Proc. of 10th ACM Int. Conf. on Intelligent User Interfaces IUI'2006, Sydney, 29 January-1 February 2006, 2006, p. 140-147.
 - Demeure Alexandre, Calvary Gaëlle, Coutaz Joëlle, Vanderdonckt Jean, *The Comets Inspector: Towards Run Time Plasticity Control based on a Semantic Network*, PreProc. of 5th Int. Workshop on Task Models and Diagrams for User Interface Design TAMODIA'2006, Hasselt, 23-24 October 2006, 2006, p. 199-206.
 - Fouss F., Yen L., Pirotte A. & Saerens M. (2006), *An experimental investigation of graph kernels on a collaborative recommendation task*. Proceedings of the 2006 IEEE International Conference on Data Mining (ICDM 2006), pp. 863-868

4. Other publications

- Kolp Manuel, Wautelet Yves, Schinckus Christophe, *A Lakatosian Approach to Agent Software Engineering*, 2006, Cahiers du CEREC.

5. International research activities

5.1. Workshops and Conferences

KOLP MANUEL

- M. Kolp, B. Hendersen-Sellers, H. Mouratidis, A. Ghoze AOIS 2006 - 9th International Bi-Conference on Agent Oriented Information Systems, Hakodate, Japan & Luxembourg, Mai & Juin, 2006

SAERENS MARCO

- Various workshops or lectures organized by the Computational Intelligence and Learning doctoral school, Belgium (CIL, www.uclouvain.be/doctoralschool-cil)

VANDERDONCKT JEAN

- 6th Int. Conf. of Computer-Aided Design of User Interfaces CADUI'2006, 6-8 June 2006
- Int. Workshop on Web Information Systems Modeling WSDM'2006
- 2nd Int. Workshop on Model Driven Development of Advanced User Interfaces MDAAUI'2006

- 3rd International Workshop on Metamodels, Schemas, Grammars, and Ontologies for Reverse Engineering ATEM'2006

WINKLER MARCO

- 6th International Workshop on Software-Oriented Technologies, Como, Italy, July 16th 2007
- 6th International Workshop on TAsk-MOdelS and DIAGrams, Toulouse, France, 7-9 November 2007

5.2. Academic Visits

KOLP MANUEL

Visits to Other Institution

- Université libre de Bruxelles, Faculté des Sciences Sociales, Economiques et Politiques
- University of Trento, Italy

SAERENS MARCO

Visits to Other Institution

- XEROX Research Center, Europe
- IRIDIA Laboratory, Université Libre de Bruxelles

VANDERDONCKT JEAN

Visits to Other Institution

- BBC Research, Upton, United Kingdom
- Univ. of Karlsruhe, Prof. A. Weibel
- EPFL, Lausanne, Switzerland, Prof. J.-Ph. Thiran
- University of Hasselt, Prof. K. Coninx
- Polytecnic University of Valencia (Spain), Dept. of Information Systems, Prof. O. Pastor
- Université Joseph Fourier (Grenoble, France), Institut de Mathématiques Appliquées de Grenoble (IMAG), Dépt. CLIPS, Prof. J. Coutaz
- National Center for Research & Development in Informatics (Bucharest, Romania), Dr. C. Pribeanu

Visitors

- Prof. L. Nigay, Université Joseph Fourier (Grenoble, France)
- Dr. Gaëlle Calvary, Université Joseph Fourier (Grenoble, France)
- Prof. Ph. Gray, University of Glasgow (Glasgow, Scotland)
- Dr. C. Pribeanu, ICI (Bucharest, Romania)
- Prof. C. Kolski, Université de Valenciennes (Valenciennes, France)

6. Research Collaborations

6.1. Research Contracts

KOLP MANUEL

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

Financial Support : FSR-UCL, CGRI-AUF

IAG Principal Investigator : Manuel Kolp

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.

- *Agent-oriented modeling and development of production systems for steel manufacturing*

Financial Support : Carsid SA, Walloon Region

IAG Principal Investigator : Manuel Kolp

Short description :

The project models part of the production systems of the « Coke-Fonte-Energie » Operation Center of CARSID and their applications in order to progressively re-engineer them. Such systems 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 software project management process that could be parameterized for the different CARSID manufactories.

- *A Multi-Agent Recommendation System Based for Sharing of Knowledge: Région Wallonne, Denali S. A.*

Financial Support : FIRST Entreprise contract (Région Wallonne)

IAG Principal Investigator : 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 MARCO

- *Network Analysis, Clustering and Relationship mining (NACRE)*

Financial Support : Région de Bruxelles-capitale (2005-2007)

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/Sopres". Its aim is to develop 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".

- *A Multi-Agent Recommendation System Based for Sharing of Knowledge*

Financial Support : FIRST Enterprise contract - Région Wallonne(2005-2006)

Short description :

This project is funded by the "Region wallonne" and has been introduced in partnership with "CITObi", an internet marketing automation and CRM company. Its aim is to develop 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 CITObi, is under development.

- *Automatic Structure Induction from Flat Texts (STRATEGO)*

Financial Support : Région Wallonne (2007-2010) - WIST2 project

Short description :

This project is funded by the "Region Wallonne" and has been introduced in partnership with IRIS S.A., Denali S.A. and MENTIS SPRL. Its aim is to develop novel machine learning and data mining methods for the automatic structure induction from flat, scanned, texts and their XML DTDs. In particular, we are interested in jointly structuring and classifying the scanned manuscripts.

VANDERDONCKT JEAN

- *Harmonia, Inc. (USA)*

Financial Support : contrat direct

Short description :

This project is aimed at defining a User Interface Description Language (UIDL) for multi-platform user interfaces of information systems. This language should be supported by validated software tools and is currently being submitted to OASIS as a standard proposal.

- *CARE Tech., Denia (Spain)*

Financial Support : bourse de post-doctorat

Short description :

This project is aimed at defining a user interface model (both abstract and concrete) for the Oliva Nova© Model Execution suite commercialized by CARE Tech.

- *Ambient intelligence*

Financial Support : FWO

Short description :

This project is aimed at sharing experiences in using models for context of use as they should be in ambient intelligence. This project is coordinated by EDM-LUC (Univ. of Hasselt)..

- *MULPLEX research project (Automated generation of plastic multi-channel inter-faces for on-line courses and exercises based on a learner model)*

Financial Support : Walloon Region, Convention n°EP1A320501 R054F/415737

Short description :

This project is aimed at designing, defining, and developing techniques for multi-platform eLearning systems, in particular for Personal Digital Assistants (PDAs).

- *European COST Action MAUSE "Towards The Maturation of IT Usability Evaluation"*

Financial Support : European Commission, COST Action n°294

Short description :

This project is aimed at investigating Usability Evaluation Methods (UEMs) for information systems and to provide a common framework for using UEMs depending on the information system type.

- *REQUEST research project (Rapid prototyping of e-commerce applications), "WIST" Wallonie Information Science & Technology research program*

Financial Support : Walloon Region, Convention n°315592

Short description :

This project is aimed at developing a model-based approach for designing eCommerce applications from sketches of its user interface.

- *DESTINE research project (Design & Evaluation Studio For Intent-Based Ergonomic Web Sites), "WIST" Wallonie Information Science & Technology research program*

Financial Support : Walloon Region, Convention n°315577

Short description :

This project is aimed at developing a software for automated web usability evaluation based on usability guidelines stored in a Guideline Definition Language (GDL).

- *The SIMILAR network of excellence (The European research taskforce creating human-machine interfaces SIMILAR to human-human communication)*

Financial Support : European Commission, FP6-IST1-2003-507609

Short description :

This project is aimed at developing a software for automated web usability evaluation based on usability guidelines stored in a Guideline Definition Language (GDL)

- *Plasticité des Systèmes Interactifs*

Financial Support : CNRS France

Short description :

This project is aimed at investigating adaptation of user interfaces to the context of use

- *Evaluation du site de la Sécurité Sociale*

Financial Support : Smals-MvB

Short description :

This project is aimed at evaluating the usability of the Belgian Social Security web site according to heuristic evaluation based on usability guidelines

- *Evaluation du site Walmart*

Financial Support : Walloon Region

Short description :

This project is aimed at evaluating the usability of a web site for managing material acquired in research projects in Walloon Region.

6.2. Doctoral program

6.2.1. Doctoral Dissertations

JEAN VANDERDONCKT

Muriel Florins, *Graceful degradation of User Interfaces*, IAG Louvain School of Management, UCL, 2006

Laurent Bouillon, *Reverse engineering of user interfaces*, IAG Louvain School of Management, UCL, 2006.

6.2.1. On-Going PhD Research Projects

JEAN VANDERDONCKT

- Adrien Coyette: *An Informal Design Tool for User Interface Early Design* (2007)
- Juan Manuel Gonzalez Calleros: *Model-based development of three dimensional user interfaces* (2008)
- Adrian Stanciulescu: *A Design Space for Developing Multimodal User Interfaces of Information Systems* (2008)
- Josefina Guerrero: *Conceptual Modeling of User Interfaces to Workflow Information Systems* (2008)

MANUEL KOLP

- Adrien Coyette: *An Informal Design Tool for User Interface Early Design* (2007)
- Tai Nguyen: *A methodology for Business Services Development and Composition* (2007)
- Yves Wautelet : *Multi-Agent Iterative Development for Managing Enterprise Information Systems* (2007)
- Youssef Achbany: *Optimal Tuning of Continual Online Exploration in Reinforcement Learning used in a Dynamic Task Allocation within an Open Service-Oriented MAS Architecture* (2008)
- Hang Hoang : *Development of a Non Functional Requirements Framework for Multi-Agent Systems* (2009)
- Caroline Herssens: *Integrating Quality of Services into Agent-Oriented Web Services* (2011)
- Tran Thi Ai Vi: *Reverse Engineering User Interface from Complex Queries* (2011)

MARCO SAERENS

- François Fouss: *Measures of similarity on graphs: investigation and application to collaborative recommendation* (2007)
- Youssef Achbany: *Optimal Tuning of Continual Online Exploration in Reinforcement Learning used in a Dynamic Task Allocation within an Open Service-Oriented MAS Architecture* (2008)
- Luh Yen: *Community detection based on kernels on a graph* (2008)

RESEARCH AT THE
CENTRE FOR RESEARCH
IN ENTREPRENEURIAL
CHANGE AND INNOVATE
STRATEIES

[CRECIS]

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

1. Presentation

European organizations are facing a continuously changing environment. The development of new technologies and the globalization process tremendously increase competition. The acceleration of innovation rates tend to push old legitimacies down the stairs and force companies to stay on the cutting edge of knowledge.

Organizations in turbulent environments are permanently challenging their strategic capabilities and their management skills. Small or large, high or low tech, all of them incorporate innovation and change in their core business practices.

The mission of the CRECIS is to explore these innovative strategies and to draw up strategic implications for the future of European organizations. The members of the CRECIS have built up a unique set of expertise and can help managers develop entrepreneurial capabilities based upon innovativeness and change. We particularly study organizational dynamics in the following fields:

- 1. The strategic management of technological and organizational innovation;*
- 2. The development of entrepreneurial behaviors and processes;*
- 3. The management of change and organizational creativity.*

The CRECIS is an applied research center. Activities are oriented towards a balanced mix of academic research and dialogue with the business community. The CRECIS is also a multidisciplinary research center, mobilizing a large scope of management disciplines for a common concern: improving organizational dynamics.”

SENIOR RESEARCHERS

Coeurderoy R.,
Delobbe N.,
De Rongé Y.,
Gailly B.
Janssen F.,
Leonard E.,
Vas A.,

JUNIOR RESEARCHERS

Bacq S.,
Bakengela P.,
Biga M.,

Bridoux F,
Cornelis M.,
de Harlez Y.,
Delmarquette A.,
Dion D.,
Dulac T.
Duplat V.,
Giacomin O.,
Lassalle de Salin M.,
Lejeune Ch.,
Lwango A.,
Neysen N.,
Paré R.,
Schmit C.,
Taskin L.

ASSOCIATE RESEARCHERS

Belleflamme P.,
Castiaux A.,
de Béthune A.,
de Moerloose Ch.,
Jacques JM,
Luethge D.,
Schuiling I.,
Spineux A.,
Wilmes Ph.

2. Scientific publications

2.1. Articles published in Scientific Journals

- Belleflamme Paul, *Piracy and competition* (www.ses.man.ac.uk/picard/). Forthcoming (2007) in Journal of Economics and Management Strategy.
- Belleflamme Paul, *Patents and incentives to innovate: Some theoretical and empirical economic evidence*. Ethical Perspectives: Journal of the European Ethics Network 13, n° 2 (2006): 267-288.
- D.M. Biga, D. François, B. Gailly, F. Janssen, M. Verleysen and V. Wertz, *Les trajectoires de croissance des jeunes entreprises*, Revue Gestion 2000, forthcoming.
- F. Janssen (2005), *La conceptualisation de la croissance: L'emploi et le chiffre d'affaires sont-ils des représentations interchangeable d'un même phénomène?*, Revue Gestion 2000, 6, 267- 291.
- K. Cerrada and F. Janssen (2006), *De l'applicabilité, des spécificités et de l'utilité d'un code de gouvernance d'entreprise pour les PME et les TPE: le cas de la Belgique*, Revue Internationale PME, , 19, 3-4, 164-193
- F. Janssen (2006), *Do managers' characteristics influence the workforce growth of SMEs?*, Journal of Small Business and Entrepreneurship, 19, 3, 293-315
- Gailly Benoît, Fayolle Alain, et al, *Effect and counter-effect on Entrepreneurship Education and Social Context on Student's intentions*, 2006, p. 509-523, Vol. 24.
- Gailly Benoît, Fayolle Alain, et al, *Assessing the impact of entrepreneurship education programmes: a new methodology*, 2006, p. 701-720, Vol. 30(9).
- R. Coeurderoy, R. Durand : Reprint, Age, Order of Entry, *Strategic Orientation and Organizational performance*. Journal of Business Venturing, 16(5), p.471-474; in Andersson P., New Firm Start-ups, Edward Elgar Publishing, forthcoming.
- Vas Alain, Byosiére Philippe, *Beyond the Zero Sum Game of Diffusion of Innovation : The Interaction of Social Networks and Organizational Knowledge*, International Journal of Technology Management, A paraître, 2006.
- Taskin Laurent, *Télétravail: Les enjeux de la déspecialisation pour le Management Humain*, Interventions économiques 34, p. 73-94, 2006.
- Taskin Laurent, *Réguler le télétravail de l'intérieur*, Over.Werk 1-2, p. 137-141, 2006.
- Taskin Laurent, *Le télétravail en manque de régulations*, Regards Economiques 37, p. 1-14, 2006.
- Delobbe Nathalie, *Facteurs de motivation et de transfert d'apprentissage en formation: une étude séquentielle dans le contexte d'une formation au leadership*, Psychologie du Travail et des Organisations, A paraître, 2006.

2.2. Books

- Giacomini Olivier, Guyot Jean-Luc, Janssen Frank, Lohest Olivier, *Logique d'action des primo-créeurs d'entreprise en Région Wallonne : identité et dynamique push-pull*, 2006.
- Lohest Olivier, Guyot Jean-Luc, Janssen Frank, *Facteurs influençant la croissance de l'emploi des PME wallonnes*, 2006.

- Vas Alain, Byosiére Philippe, Luethge D.J., Salmador Sanchez M.P., *Contextual Issues in the Diffusion of Innovation: The interaction of Social Networks and Organizational Knowledge*, 2006, Vol.15.
- Vas Alain, *Les attributs du changement comme facteurs de résistance : une approche diachronique*, 2006, Vol.14.
- Vas Alain, Coeurderoy Régis, *Explaining factors affecting the speed of change adoption : a survival analysis*, 2006, Vol.8.
- Vas Alain, Lejeune Christophe, Implementing the Bologna reform at the university: a diachronic approach of professors' reactions to change, 2006, CRECIS working paper, Vol.06, Diffusé.
- Taskin Laurent, *Déspatialisation et modes de contrôle: Entre régulations et conventions. Le cas du télétravail dans le secteur public.*, 2006, Working Papers IAG-CRECIS, Vol.13/06.
- Taskin Laurent, Walrave Michel, Robert Frédéric, Platel Dieter, *Télétravail, De l'idée à la réalité*, Agoria, Bruxelles, 2006, p. 58.
- Lambin Jean-Jacques, Chumpitaz Ruben, Schuiling Isabelle, *Market Driven Management, second edition*, Palgrave-MacMillan, 2006.

2.3. Book chapters

- Belleflamme Paul, *Versioning information goods*. In G. Illing and M. Peitz (eds.), <http://mitpress.mit.edu/catalog/item/default.asp?tttype=2&tid=10867>, Industrial Organization and the Digital Economy, MIT Press (2006)
- Delobbe Nathalie, *Comment gérer les carrières aujourd'hui ?*, In C. Lévy-Leboyer, C. Louche, J.P. Rolland (Eds) : RH Des apports à la psychologie du travail. T2 : Management des Organisations (p. 151-173) Paris Les Editions d'Organisation.
- F. Janssen (2006), *The impact of the environment on employment growth: an empirical study of Belgian SMEs*, in Balamoune-Lutz, M., Nowak, A. Z. and Steagall, J. (Ed.), Global Economy – How it works: different cases, different results, WWZ, Warsaw, 318-338
- Gailly, B. (2006). *Can you teach entrepreneurs to write their business plan? An empirical evaluation of business plan competitions*. International Entrepreneurship Education: Issues and Newness. A. Fayolle and H. Klandt. Cheltenham, Edward Elgar. 1: 133-154.
- Fayolle, A., B. Gailly, et al. (2007). *Towards A New Methodology to Assess Entrepreneurship Teaching Programmes*. Handbook of Research in Entrepreneurship Education. A. Fayolle. Cheltenham, Edward Elgar. 1.
- Janssen, F., V. Eeckhout, and Gailly B. (2007). *Interdisciplinary Approaches in Entrepreneurship Education Programmes*. Handbook of Research in Entrepreneurship Education. A. Fayolle. Cheltenham, Edward Elgar. 2: 148-165.
- Gailly Benoît, Janssen Frank, collectif, *Les trajectoires de croissance des jeunes entreprises*, 2006, A paraître.
- Léonard Evelyne, Rochet Delphine, Vandenbussche Isabelle, *The challenges of enlargement*, Dufresne, A., Degryse, C., Pochet, Ph. (eds), P.I.E. Peter Lang, 2006, p. 305-334, Work and Society.
- Taskin Laurent, *Country Report: Belgium*, European Commission, 2006, p. 44-50.

3. Conferences

- Giacomini Olivier, Guyot Jean-Luc, Vandewattyne Jean, Lohest Olivier, *Passage à l'auto-emploi et prise de risque : le cas des primo-créateurs d'entreprise en Wallonie*, XIII^e journées d'études sur les données longitudinales dans l'analyse du marché du travail, Aix-en-Provence, 01-02 juin, 2006.
- Biga Diambeidou Mahamadou, François Damien, Gailly Benoît, Verleysen Michel, Wertz Vincent, *Empirical Taxonomy of Start-Up Firms Growth Trajectories*, ESUCO 2006, European Summer University Conference on Entrepreneurship and Entrepreneurship Education Research, Hämeenlinna (Finland), 25-30 August 2006, 2006.
- Gailly Benoît, Fayolle Alain, et al, *The Role of Entrepreneurship Education and Training Programmes in the Evolution of Attitudes, Intention and Orientation*, European Summer University Conference on Entrepreneurship, Hämeenlinna, Finland, 2006.
- Dulac Tanguy, Coyle-Shapiro Jacqueline, Delobbe Nathalie, *The role of socialization tactics and information seeking in newcomers' psychological contracts*, Academy of Management, Atlanta - USA, August 6-11, 2006.
- Dulac Tanguy, Coyle-Shapiro Jacqueline, Henderson David, Wayne Sandy, *The development of psychological breach and violation: a social-exchange approach*, Academy of Management, Atlanta - USA, August 6-11, 2006.
- Dulac Tanguy, Coyle-Shapiro Jacqueline, *Leader-Member exchange and perceived Organizational Support during Organizational Socialization*, Society of Industrial and Organizational Psychology, Dallas - USA, May, 2006.
- Marc Christel, Delobbe Nathalie, *Diagnostic des facteurs de stress et d'épuisement en milieu hospitalier*, 14^{ème} Congrès de Psychologie du Travail et des Organisations, Hammamet - Tunisie, 7 - 10 juillet, 2006.
- Taskin Laurent, *Déspatialisation et re-régulation des modes de contrôle. Le cas du télétravail dans le secteur public*, 5th Coll. on the Metamorphosis of Organizations, Nancy, France, 23-24 November, 2006.
- Neysen Nicolas, *Coopération sur les plates-formes d'information en ligne : une forme d'e-collaboration ? Le cas de ruraltrip.com*, XI^{ème} Colloque International de l'Association Information et Management (AIM), Luxembourg, 7-9 juin 2006.
- Vas A., *Les attributs du changement comme facteur de résistance : une approche diachronique*, Conférence Internationale de l'Association Internationale de Management Stratégique, Annecy, France, Juin 2006.
- Valérie Duplat, *Structure and Management of the International Licensing Agreement*. EIBA Doctoral Tutorial, European International Business Academy, Fribourg, December 2006.
- O. Giacomini, J.L. Guyot, F. Janssen and O. Lohest (2006), *Logique d'action des primo-créateurs d'entreprise en Région wallonne : Identité et dynamiques push-pull*, in AIREPME, L'internationalisation des PME et ses conséquences sur les stratégies entrepreneuriales, Actes du 8^{ème} congrès international francophone en entrepreneuriat et P.M.E. (CIFEPME), Haute Ecole de Gestion Fribourg, October

- J.L. Guyot, F. Janssen and O. Lohest (2006), *Facteurs influençant la croissance de l'emploi des PME wallonnes*, in AIREPME, L'internationalisation des PME et ses conséquences sur les stratégies entrepreneuriales, Actes du 8ème congrès international francophone en entrepreneuriat et P.M.E. (CIFEPME), Haute Ecole de Gestion Fribourg, October
- F. Janssen (2006), *The conceptualization of growth: Are employment and turnover interchangeable criteria ?*, in International Council for Small Business and Entrepreneurship (ICSB), 51st International Council for Small Business World Conference Proceedings, Melbourne (Australia), June 2006
- Coeurderoy R.: *How to sustain leadership in a global market?*, Louropa Forum 2006 (CEMS seminar), 14 November.
- Neysen Nicolas and Belleflamme Paul. *coopetition in nformmediation*. 2nd Workshop on Coopetition Strategy, Milan, 14-15 September 2006.
- Paul Belleflamme :
 - 10 mars 2006. Séminaire invite au Centre for Intellectual Property Rights, Law Faculty - Catholic University Leuven, 10/03/2006
 - 8/9 juin 2006. Ecole de Printemps du LEA à Aix-en-Provence (discussion d'un article)
 - 22/23 juin 2006. Conference on the Economics of ICT, Telecom Paris (présentation de deux articles)
 - 16/17 septembre 2006. Jamboree de l'European Doctoral Programme (CORE) (présentation d'un article)
- Frank Janssen : *Attentes d'un éditeur face à un réviseur*, Consortium doctoral, 8ème congrès international francophone en entrepreneuriat et P.M.E. (CIFEPME), Haute Ecole de Gestion Fribourg, October 2006
- Frank Janssen : *L'intention entrepreneuriale chez les jeunes de l'enseignement supérieur*, FREE, Colloque international L'envie d'entreprendre chez les jeunes, Liège, March 2006
- Frank Janssen : *L'impact de la fonction d'utilité du propriétaire – dirigeant de PME sur la hiérarchie des sources de financement*, Institut d'Etudes du développement, UCL, Forum de Recherche en Microfinance, La microfinance à la croisée des chemins: regards sur les services financiers inclusifs, Louvain-la-Neuve, October 2005
- Frank Janssen : *SMEs, Information technologies and information systems*, Microsoft Partner Conference 2005-2006, Going Beyond, Ghent, October 2005

4. Other publications

- Neysen Nicolas, *Coopétition sur les plates-formes d'information en ligne : une forme d'e-collaboration ?* WP IAG 06-06.
- Belleflamme Paul, *Coopetition in Infomediation: The Ruraltrip.com Case* (with www.poge.ucl.ac.be/crecis/people/nneysen.htm N. Neysen) www.poge.ucl.ac.be/crecis/pdf/wp/2006-10_Belleflamme.pdf" CRECIS Working Paper 10.2006
- Belleflamme Paul, *Sustainable collusion on separate markets* (www.vcharite.univ-mrs.fr/PP/bloch/introduction.htm" F. Bloch) www.core.ucl.ac.be/services/psfiles/dp06/dp2006_59.pdf" CORE Discussion Paper 2006/59
- Belleflamme Paul, *Incentives to innovate in oligopolies* (with C. Vergari) www.core.ucl.ac.be/services/psfiles/dp06/dp2006_14.pdf" CORE Discussion Paper 2006/14
- Belleflamme Paul, *Patents and incentives to innovate: some theoretical and empirical economic evidence* www.poge.ucl.ac.be/crecis/pdf/wp/01-2006.pdf" CRECIS Working Paper 01.2006
- Janssen F., *The Conceptualization of Growth : Are Employment and Turnover Interchangeable Criteria*, CRECIS Working Paper 09/06
- Giacomini O., J.L. Guyot, F. Janssen and O. Lohest (2006), *Logique d'action des primo-créateurs d'entreprise en Région wallonne : Identité et dynamiques push-pull*, CRECIS working papers, 12/06, IAG-Louvain School of Management, Université catholique de Louvain
- Guyot J.L., F. Janssen and O. Lohest (2006), *Facteurs influençant la croissance de l'emploi des PME wallonnes*, CRECIS working papers, 11/06, IAG-Louvain School of Management, Université catholique de Louvain
- Cœurderoy Régis, *L'économie des Organisations (The Economics of Organizations)*. Handbook (Editions Vuibert, forthcoming)
- Cœurderoy Régis, *Institutional Environment and Capital Structures: Evidence on EU companies*, submitted to European Journal of Law and Economics (revision stage).
- Cœurderoy Régis, *Institutional Environments and the Location Decisions of Start-ups: Evidence from the First International Market Entries of New Technology-Based Firms* (avec G Murray), submitted to Journal of International Business Studies (revision stage).
- Cœurderoy Régis, *Dynamique organisationnelle et diffusion du changement* (with A Vas), submitted to Finance-Contrôle-Stratégie.
- Gailly Benoît, *Corporate Entrepreneurship: from ideas to businesses*, IBM Innovation Week 2006, Brussels, September 13, 2006.
- Gailly Benoît, *L'innovation, vecteur de développement régional*, Conférence annuelle AILv 2006, Louvain-la-Neuve, October 24, 2006.
- Giacomini Olivier, Guyot Jean-Luc, Janssen Frank, Lohest Olivier, *Logique d'action des primo-créateurs d'entreprise en Région Wallonne : identité et dynamique push-pull*, 2006.

- Lohest Olivier, Guyot Jean-Luc, Janssen Frank, *Facteurs influençant la croissance de l'emploi des PME wallonnes*, 2006.
- Taskin Laurent, *Déspatialisation et modes de contrôle: Entre régulations et conventions. Le cas du télétravail dans le secteur public.*, 2006, Working Papers IAG-CRECIS, Vol.13/06.
- Taskin Laurent, *Déspatialisation et modes de contrôle: Entre régulations et Conventions. Le cas du télétravail dans le secteur public.*, Séminaire CRECIS, Louvain-la-Neuve, 16 Nov., 2006.
- Taskin Laurent, *Spatial and Temporal flexibility: Towards a new employment relationship?*, IRRU Research Seminar, University of Warwick, 15 February, 2006.
- Taskin Laurent, *Le télétravail en manque de régulations*, Séminaire de politique économique, IRES, Université catholique de Louvain, 21 Avril, 2006.
- Taskin Laurent, *Les apports de la théorie de la régulation et de la théorie des conventions pour comprendre les changements en matière de contrôle dans les organisations*, CeRIO, Mons, 24 mai, 2006.
- Vas Alain, Byosiére Philippe, Luethge D.J., Salmador Sanchez M.P., *Contextual Issues in the Diffusion of Innovation: The interaction of Social Networks and Organizational Knowledge*, 2006, Vol.15.
- Vas Alain, *Les attributs du changement comme facteurs de résistance : une approche diachronique*, 2006, Vol.14.
- Vas Alain, Coeurderoy Régis, *Explaining factors affecting the speed of change adoption : a survival analysis*, 2006, Vol.8.
- Vas Alain, Lejeune Christophe, *Implementing the Bologna reform at the university: a diachronic approach of professors' reactions to change*, 2006, CRECIS working paper, Vol.06, Diffusé.
- Vas Alain, *Repenser le changement*, Libre Entreprise, pp.10-11, Octobre 2006.
- Vas Alain, *Le CFO de demain sera Change Manager ou ne sera pas*, Finance Management, N°3, pp.16-17, Décembre.
- Vas Alain, *La Gestion du changement: une boîte à outils et son mode d'emploi*; RH Tribune, N°102, pp.50-51, Novembre.

5. International research activities

5.1. Workshops and conferences

DELOBBE NATHALIE

- Organisation et présidence du symposium : Dynamique et antécédents de la motivation à se former et du transfert d'apprentissage en formation d'adultes. 14e congrès de psychologie du travail et des organisations, Hammamet, Tunisie, 2-10 juillet 2006.

DUPLAT VALÉRIE

- Start Academy for Young Entrepreneurs, business game coordinated by Solvay Entrepreneur, ULB Entrepreneurship Center, ICHEC, CIDE (Conseil pour l'Innovation et le Développement de l'entreprise), CréaLouv, LME (la Maison de l'Entreprise) et le BEP (Bureau Economique de la Province de Namur) : workshops « Strategy Formulation ».

GAILLY BENOÎT

- 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.

JANSSEN FRANK

- *CEMS Faculty Group on entrepreneurship annual meeting, Louvain-La-Neuve, April 2006*

LÉONARD EVELYNE

- Member of the International programme committee of the IREC 2006 conference

SCHUILING ISABELLE

- Conference organized for the "Louvain School of Management International Chair" with key guest speaker Prof Jean-Noël Kapferer, Worldwide specialist in Brand Management and Professor at HEC Paris, "Ce qui va changer les marques ", May 2006

TASKIN LAURENT

- CRECIS Research Seminars

5.2. Academic visits

GAILLY BENOÎT

Visits to Other Institution

- EM Lyon, nov2006
- China Europe International Business School, Shanghai, nov2006

Visitors

- Prof. Alain Fayolle, EM Lyon, 30-31/3/2006 et 18-19/9/2006

JANSSEN FRANK

Visits to Other Institutions

- University of Bamberg (Germany), Dec. 2005
- Appalachian State University (USA), Nov. 2006
- University of Alicante (Spain), Sept. 2006
- University of Metz (France), June 2006
- IHEC Carthage (Tunisia), Febr. 2006
- University of North Florida (USA), Jan. and May 2006

Visits to IAG

- Prof. Mark McKnew (Clemson University, USA),
- Prof. A. Mahmoud (IHEC Carthage, Tunisia)
- Prof. Jean Lorrain (Université du Québec à Trois-Rivières, Canada)

DELOBBE NATHALIE

Visits to IAG

- 22 mai 2006: Prof. Robert Liden- University of Illinois at Chicago
- 22 mai et 15 septembre 2006: Prof. Jacqueline Coyle-Shapiro - London Schools of Economics

TASKIN LAURENT

Visits to Other Institution

- Visiting Fellow at the University of Warwick (UK), Warwick Business School (IRRU),(3 months internship), jan->Mar06

VAS ALAIN

Visits to Other Institutions

- Université Paris XII Nov 2006
- IHEC Carthage feb 2006
- Warsaw university of technology business school march 2006

6. Research collaborations

6.1. Research contracts

BELLEFLAMME PAUL

- *Coopération et concurrence dans l'économie de la connaissance*

Financial Support : Fonds de Recherche Fondamentale Collective (Janvier 2007-Décembre 2009)

Short description :

Approche théorique combinant coalitions et réseaux, appliquée aux accords de R&D entre firmes, à l'harmonisation internationale de la propriété intellectuelle et aux relations entre universités.

DELOBBE NATHALIE

- *Impacts du bien-être au travail sur la performance de l'organisation*

Financial Support : DiRACT (Direction de la Recherche sur l'Amélioration des Conditions de Travail) - SPF Emploi, Travail et Concertation Sociale

Short description :

L'objectif de cette recherche est de mieux comprendre les liens qui existent entre le bien-être au travail, tel que défini par la législation belge (loi de 1996 sur le bien-être au travail), et la performance de l'organisation. Il s'agit de cerner l'ampleur de ces effets en distinguant deux niveaux d'analyse: l'individu et l'organisation. Au niveau organisationnel, trois catégories d'indicateurs de performance seront pris en compte: indicateurs sociaux (turnover, absentéisme), indicateurs commerciaux (évolution des parts de marché, taux de satisfaction et de fidélisation de la clientèle) et indicateurs financiers (rentabilité comptable). L'impact du bien-être au travail sur la performance individuelle sera quant à lui analysé en distinguant la performance dans la tâche et la performance contextuelle (comportements de citoyenneté organisationnelle). Enfin, cette étude examinera en quoi le bien-être des travailleurs médiatise l'effet des modes d'organisation du travail et des pratiques de gestion des ressources humaines sur l'efficacité organisationnelle

GAILLY BENOÎT

- *Understanding the growth trajectories of start-up firms*

Financial Support : Banque Nationale de Belgique

Short description : Start-up firms growth trajectory analysis

- *Evaluation du positionnement de GSK Bio en terme de RSE*

Financial Support : GSK Biologicals

Short description :

Analyse interne de la perception du positionnement de GSK Bio en matière de RSE

JANSSEN FRANK

- *Push and pull entrepreneurship*

Financial Support : Brederode

ABSTRACT

Understanding the push vs. pull motivations of newly created SMES, analyze the differences in their strategies

LÉONARD EVELYNE

- *New structures, forms and processes of governance in European industrial relations*

Financial Support : European Foundation for the Improvement of Living and Working Conditions, Dublin

Short description :

Research institute in charge of the project: Institut des Sciences du Travail (IST); for the European Foundation for the Improvement of Living and Working Conditions, Dublin.

The project consists of a thorough analysis of recent developments in European industrial relations under the influence of the development of new tools of governance.

- *Studies of the representativeness of employers and workers organisations at sector level in Europe*

Financial Support : European Commission, DG Employment, Social Affairs and Equal Opportunities

Short description :

Since 2003, the Institut des Sciences du Travail (IST) has been co-ordinating studies for the Directorate-General for Employment and Social Affairs of the European Commission, on the representativeness of the social partners and the state of the social dialogue in the EU member States and candidate countries. To this end, a network of scientific experts was set up. Since 2004, 28 national experts are involved and the studies cover all member states and candidate countries.

All research reports are accessible on-line from http://ec.europa.eu/employment_social/social_dialogue/represent_en.htm

- *National correspondent for the ERM, EWCO and EIRO of the European Foundation, Dublin*

Financial Support : European Foundation for the Improvement of Living and Working Conditions, Dublin

Short description :

In co-operation with HIVA-KULeuven, the Institut des Sciences du Travail conducts diverse studies on industrial relations, working conditions and restructuring in Belgium. See <http://www.eurofound.ie/>

- *Cedefop and the social partners*

Financial Support : Cedefop

Short description :

The research project aims at analysing the needs and requirements of the social partners in the context of lifelong learning policies that could be addressed by the Cedefop. It includes a literature review, documentary search and a survey of social partners at European level and at national level.

VAS ALAIN

- *La diffusion des innovations au sein des organisations complexes : une approche diachronique des itinéraires cliniques en milieu hospitalier.*

Financial Support : Fonds Spécial de Recherche

Research Assistant : Cécile Schmit

Short description :

Le projet de recherche a pour objectif d'évaluer, par un plan d'analyse de données répétées, quels facteurs individuels, contextuels et organisationnels favorisent la diffusion d'innovation de type organisationnel au sein d'organisations complexes. Plus particulièrement, cette recherche s'intéressera aux facteurs susceptibles d'accélérer -ou de freiner- la diffusion des itinéraires cliniques (innovation organisationnelle) au sein des institutions hospitalières. Cette étude se fondera sur un suivi longitudinal par questionnaire du personnel impliqué dans la mise en place d'itinéraires cliniques au sein d'hôpitaux belges.

6.2. Doctorats

BELLEFLAMME PAUL

- Thèse de Filomena Garcia, sous la direction de Jean Gabszewicz, UCL (janvier 2006) – Jury de thèse
- Thèse de Huasheng Song, sous la direction de Vincent Vannetelbosch, UCL (mars 2006) – Jury de thèse
- Flore Bridoux (IAG), *"A resource-based approach to competition: A study of the interactions among resources, competitive behaviors, and performance"* – Promoteur
- Nicolas Neysens (IAG), *"Les enjeux stratégiques de l'intermédiation électronique. Les cas de l'e-tourisme"* – Promoteur
- Marco Marinucci (ECON), *"Essays on the economics of R&D and innovation"* – Promoteur

CŒURDEROY RÉGIS

- Tanguy Dulac, *The development of the psychological contract during the newcomer's organizational socialization.* – Comité d'encadrement et jury
- Valérie Duplat, *Structure and Management of the International Licensing Agreement.* Promoteurs: Régis Coeurderoy et John Hagedoorn

DELOBBE NATHALIE

- Dulac Tanguy (2006), UCL. *The psychological contract during organizational socialization a longitudinal study of its formation and evaluation.* – Promoteur
- Camerman Julie (2006), UCL. *Justice et processus d'échanges sociaux dans les organisations: une analyse des dimensions et des effets de la justice organisationnelle.* – Comité d'encadrement et jury
- Mikolaczak Moïra (2006), UCL. *The moderating effect of emotional intelligence on psychological and neuroendocrine resistance to stress.* – Comité d'encadrement et jury

GIACOMIN OLIVIER

- Biga Diambeidou Mahamadou : *Understanding the Growth Trajectories of Start-Up Firms*

GAILLY BENOIT

- *Opportunity versus Necessity Entrepreneurship*, Promoteur: Professeur Frank Janssen

JANSSEN FRANK

- Olivier Giacomini: *The impact of push and pull motivations on SMEs' strategies*
- Sophie Bacq: *Social entrepreneurship and performance issues*
- Yannick de Harlez (co-director): *Dealing with environmental uncertainty for the entrepreneurs: the role of management control systems in performance measurement*

LÉONARD EVELYNE

- Devos, V. *Approche contextualiste des initiatives de changement autour de la notion de compétence, thèse présentée en vue de l'obtention du titre de docteur en sciences de gestion, UCL*
- Deffayet, S. *L'autorité managériale en question(s): une recherche sur les attentes des jeunes diplômés en S.S.I.I., thèse présentée en vue de l'obtention du Doctorat en sciences de gestion, Université Jean Moulin Lyon 3*
- Bakengela Shamba, P. *Gestion des ressources humaines dans les entreprises publiques de la RDC, thèse en cours pour l'obtention du titre de docteur en sciences de gestion, UCL*
- Dion, D. *Le champ d'action des gestionnaires locaux dans les filiales belges de multinationales étrangères, thèse en cours pour l'obtention du titre de docteur en sciences de gestion, UCL*
- Member of the selection board of the 2005/2006 CoR (Committee of Regions) Thesis Competition

NEYSEN NICOLAS

- *Strategic Stakes of Electronic Intermediation*, Advisor/Promoteur: Paul Belleflamme.

TASKIN LAURENT

- *The challenge of despatialisation for HRM: Towards new modes of control? The case of home-based teleworking"*

VAS ALAIN

- Lejeune, C., *Quality assurance and organizational effectiveness of european business schools : a resource based approach (in progress)*
- Schmit, C., *La diffusion des innovations organisationnelles au sein du milieu hospitalier (in progress)*

RESEARCH IN FINANCE

Research in Finance

1. Presentation

The Finance Group (FIN) at IAG Louvain School of Management is dedicated to high quality teaching in the area of corporate finance, investment, controlling and accounting, offering courses at the Bachelor, Master and Doctoral level.

The current group is composed of 19 full-time and part-time faculty members and 11 PhD students.

The main research interests of the Group include various issues of mergers & acquisition, market regulation, private equity and entrepreneurial finance. The Group has significantly increased its international exposure over the last years. Members have active collaborations with other researchers at Univ. Amsterdam, UCLA, Univ. of Lille 2, HEC Paris, Univ. Alicante, Univ. Singapore, Lally School of Management and many others.

Work of faculty members has been presented at numerous national and international conferences and published in a number of international journals such as Journal of Financial and Quantitative Analysis, Financial Management, Journal of Financial Markets, Economic Journal, Journal of Banking & Finance, Journal of Corporate Finance, Finance, and Banque et Marché.

It is further active in (co-)organizing research seminars (in part jointly with the CORE, UCL) and academic conferences on specialized topics in finance. Upcoming conference events include the “Workshop on the Market for Corporate Control Regulation and Corporate Governance Issues” in March 2007 and the “5th Corporate Finance Day” in September 2007.

Next to its research and teaching focus, the Group maintains strong links to practitioners and professional associations.

ACADEMIC STAFF

Nihat Aktas, Professor

Robert Cobbaut, Emeritus Professor

Jean-Paul Couvreur, Emeritus Professor

Eric de Bodt, Professor

Yves De Rongé, Professor

Pierre Devolder, Professor

Michel De Wolf, Professor

Louis Dubois, Emeritus Professor

Marcel Gérard, Professor

Philippe Grégoire, Professor
Michel Levasseur, Professor
Armin Schwienbacher, Professor

VISITING STAFF

Pierre Ars, Invited Lecturer
Karine Cerrada, Invited Lecturer
Catherine Dendauw, Invited Lecturer
Luc Henrard, Invited Lecturer
Thierry Muschang, Invited Lecturer
Robert Peirce, Invited Lecturer
Patrice Schumesch, Invited Lecturer
Paul Vanzeveren, Invited Lecturer
Jean-François Walhin, Invited Lecturer
Patrick Zurstrassen, Invited Lecturer

SCIENTIFIC STAFF

Walid Ben Omrane, Teaching and research assistant
Yannick de Harlez, Teaching and research assistant
Tanguy de Launois, FNRS fellow
Gaël Imad Eddine, Teaching and research assistant
Bertrand Jacob, Teaching and research assistant
Savina Princen, Teaching and research assistant
Ilham Riachi, Teaching and research assistant
Vassilis Samaras, FNRS fellow
Giorgio Tesolin, Ph.D Student
Hervé Van Oppens, Ph.D Student
Olivier Vercruysse, Teaching and research assistant

RESEARCH PARTNERSHIPS

UCLA, USA
Université de Lille II, France
Universiteit van Amsterdam, Pays-Bas
HEC School of Management Paris, France
National University Singapore, Singapore
Lally School of Management and Technology, USA
Australian National University, Australie
Universiteit van Tilburg, Pays-Bas
Georgetown University Law Center, USA

2. Scientific publications

2.1. Articles published in Scientific Journals

- Aktas Nihat, de Bodt Eric, Tesolin Giorgio, *"Belle saison pour le marché des fusions et acquisitions"*, Regards Economiques 39, 2006.
- Aktas Nihat, de Bodt Eric, Tesolin Giorgio, *"Regards sur la nouvelle vague de fusions et acquisitions"*, Problèmes Economiques 2.903, p. 10-19, 2006.
- Aktas Nihat, de Bodt Eric, Liagre Laurent, *"Le décollage d'EADS: une analyse par les réactions des marchés financiers"*, Finance Contrôle Stratégie 9, p. 5-34, 2006.
- Magis Corinne, Denuit Michel, Walhin Jean-François, *La mortalité, un phénomène en pleine mutation: quelle solution pour le marché des rentes ?*, Bulletin Français d'Actuariat 6, p. 43-75, 2006.
- Magis Corinne, Denuit Michel, Walhin Jean-François, *La TPRV française: dépassée ?*, Bulletin Français d'Actuariat 6, p. 11-42, 2006.
- Denuit Michel, Purcaru Oana Gabriela, Van Keilegom Ingrid, *Bivariate Archimedean copula modelling for loss-ALAE data in non-life insurance*, Journal of Actuarial Practice 13, p. 5-32, 2006.
- Courtois Cindy, Denuit Michel, Van Bellegem Sébastien, *Discrete s-convex extremal distributions: theory and applications*, Applied Mathematics Letters 19, p. 1367-1377, 2006.
- Denuit Michel, Frostig E., *Heterogeneity and the need for economic capital in the individual model*, Scandinavian Actuarial Journal Fascicule 1, p. 42-66, 2006.
- Denuit Michel, Frostig E., Levikson B., *On the dependence and the comparison of time-to-ruin random vectors*, Methodology and Computing in Applied Probability, 2006.
- Denuit Michel, Goderniaux Anne-Cécile, Scaillet O., *A Kolmogorov-Smirnov type test for shortfall dominance against parametric alternatives*, Technometrics, 2006.
- Denuit Michel, Dhaene Jan, *Comonotonic bounds on the survival probabilities in the Lee-Carter model for mortality projections*, Computational and Applied Mathematics, 2006.
- Courtois Cindy, Denuit Michel, *Bounds on convex reliability functions with known first moments*, European Journal of Operations Research, 2006.
- Denuit Michel, Dhaene Jan, Goovaerts M. J., Kaas R., Laeven R., *Risk measurement with the equivalent utility principles*, Statistics and Decision 24, p. 1-25, 2006.
- Pitrebois Sandra, Denuit Michel, Walhin Jean-François, *Multi-event bonus-malus scales*, Journal of Risk and Insurance 73, p. 517-528, 2006.
- Frostig E., Denuit Michel, *Monotonicity results for portfolios with heterogeneous claims arrival processes*, Insurance: Mathematics and Economics Fascicule 38, p. 484-494, 2006.
- Delwarde Antoine, Kachakhidze D., Olie L., Denuit Michel, *Modèles linéaires et additifs généralisés, maximum de vraisemblance local et méthodes relationnelles en assurance sur la vie*, Bulletin Français d'Actuariat, 2006.
- Boucher Jean-Philippe, Denuit Michel, *Fixed versus random effects in Poisson regression models for claim counts: a case study with motor insurance*, ASTIN Bulletin 36, p. 285-301, 2006.

- Biffis E., Denuit Michel, *Lee-Carter goes risk-neutral: An application to the Italian annuity market*, Giornale dell'Istituto Italiano degli Attuari 2006.
- Mahy S., Denuit Michel, *Découpage géographique par zone de Voronoï en assurance automobile*, Actu-L, 5, 37-50, 2006.
- Limpens V., Denuit Michel, *Modélisation semi-markovienne du risque en crédit logement dans le cadre de Bâle II*, Actu-L, 5, 21-36, 2006.
- Denuit Michel, Frostig E., Levikson B., *Shifts in interest rate and common cause model for coupled lives*, Belgian Actuarial Bulletin, 2006.
- Pitrebois Sandra, Denuit Michel, Walhin Jean-François, *An actuarial analysis of the French bonus-malus system*, Scandinavian Actuarial Journal, 2006.
- Pitrebois Sandra, Walhin Jean-François, Denuit Michel, *How to transfer policyholders from one bonus-malus scale to the other?*, German Actuarial Bulletin, 2006.
- Denuit Michel, Devolder Pierre, Goderniaux Anne-Cécile, *Securitization of longevity risk: Pricing survivor bonds with Wang transform in the Lee-Carter framework*, Journal of Risk and Insurance, 2006.
- Delwarde Antoine, Denuit Michel, Eilers P.H.C., *Smoothing the Lee-Carter and Poisson log-bilinear models for mortality forecasting: A penalized log-likelihood approach*, Statistical Modelling, 2006.
- Gérard Marcel, Vandenberghe Vincent, *L'enseignement supérieur après Bologne*, 2006, Reflets et Perspectives de la vie économique, p. 45.
- Gérard Marcel, *A closer look at Belgium's Notional Interest Deduction*, 2006, Tax Notes International, p. 449-453.
- Gérard Marcel, *Belgium moves to Dual Allowance for Corporate Equity*, 2006, European Taxation, p. 156-162.
- Gérard Marcel, Martens Weiner J., *Comment la compensation internationale des pertes et la répartition proportionnelle des revenus imposables peuvent affecter les choix des multinationales et la concurrence fiscale*, 2006, Economie et prévision, p. 65-77, Vol. 173.
- Gérard Marcel, Vandenberghe Vincent, *"Introduction" L'enseignement supérieur après Bologne*, 2006, Reflets et perspectives de la vie économique, p. 5-9, Vol. 45(2).
- Gérard Marcel, *Enseignement supérieur et mobilité, l'interpellation du passager clandestin*, 2006, Reflets et perspectives de la vie économique, p. 83-89.
- Gérard Marcel, *Le financement des études supérieures transfrontalières*, 2006, Revue d'Economie Politique, p. 789-796, Vol. 116 (6).
- Gérard Marcel, *Les enjeux actuels de la fiscalité directe*, 2006, Reflets et perspectives de la vie économique, p. 9-18, L'imposition des revenus : des modèles remis en question ?.

2.2. Books

- De Rongé Yves, De Wolf Michel, Cerrada Cristia Karine, Gatz Michel, *Comptabilité et analyse des états financiers*, De Boeck Université, 2006, p. 216. Comptabilité Contrôle Audit.
- De Wolf Michel, *Du législateur belge à la Cour de justice des Communautés européennes: dialogue et pluralité en droit fiscal*, in *Liber amicorum Jacques Malherbe*, Bruylant, p. 365-374, 2006.
- De Wolf Michel, *Le contrôle des comptes annuels et consolidés: du corset belge à la libéralisation européenne*, in *Centre Jean Renauld, Evolution et perspectives du droit des sociétés*, Bruylant - Academia, p. 423-451, 2006.
- Gérard Marcel, Löwenthal Paul, *Pauvretés, sommes-nous sans ressources ?*, 2006, p. 158, Couleur Livres / CIL.
- De Wolf Michel, De Rongé Yves, CERRADA KARINE, Gatz Michel, *Comptabilité et analyse des états financiers - principes et applications*, De Boeck, 2006, p. 216.

2.3. Book chapters

- Schvienbacher Armin, Cumming D., Fleming G., *Legality and Venture Capital Exits*, 2006, p. 214-245.
- Schvienbacher Armin, Riyanto Y.E., *The Strategic Use of Corporate Venture Financing for Securing Demand*, 2006, p. 2809-2833.

3. Conferences

- Boucher Jean-Philippe, Denuit Michel, Guillén Montserrat, *Modelling of insurance claim count with hurdle distribution for panel data*, International Conference on Mathematical and Statistical Modelling in Honor of Enrique Castillo, 2006.
- Devolder Pierre, *Un avenir pour nos pensions*, Débat national sur les pensions, Bruxelles, 2006.
- Devolder Pierre, *Duration vector models and bond portfolios*, Université de Barcelone, 2006.
- Devolder Pierre, *IAS norms and pension funding: from level methods to unit credit valuation*, Workshop pension, EM, Lyon, 2006.
- Devolder Pierre, *Optimal diversification in pension funding*, Université La Sapienza- Rome, 2006.
- Devolder Pierre, *An application of Margrabe options to joined financial and longevity risks*, Colloque FNRS, ULB Bruxelles, 2006.
- Devolder Pierre, *Une nouvelle vision des trois piliers de pension*, ARAB, Bruxelles, 2006.
- Devolder Pierre, *Comparison between some pension funding schemes*, International Congress of Actuaries, Paris, 2006.
- Devolder Pierre, *Le financement des pensions : illusions et espoirs*, ALOSS, Luxembourg, 2006.

- De Rongé Yves, Pondeville Sophie, Swaen Valérie, *L'impact de la stratégie environnementale, des pressions des stakeholders et de l'environnement externe sur la mise en place de systèmes de contrôle de gestion environnemental*, Poster pour le Forum doctoral de la LSM, Louvain-la-Neuve, 21 décembre, 2006.
- Schwienbacher Armin, *CEPR Annual Public Policy Symposium 2006*, CEPR Annual Public Policy Symposium 2006, 2006.
- Schwienbacher Armin, *What Can We Learn from the Past ?*, Workshop on Long-Term Perspectives on Institutions, Business and Finance, 2006.
- Schwienbacher Armin, *Workshop on the Politics of Corporate Governance*, Politics of Corporate Governance, Copenhagen, September, 2006.
- Schwienbacher Armin, *Workshop on Venture Capital Policy*, Workshop on Venture Capital Policy, Lund, May, 2006.
- Schwienbacher Armin, *NORFACE Venture Capital Policy Research Seminar*, NORFACE, London, April, 2006.
- Schwienbacher Armin, *NETSPAR Pension Day*, NETSPAR, Tilburg, March, 2006.
- Schwienbacher Armin, *Regional Comparative Advantage and Knowledge-Based Entrepreneurship*, First RICAPE2 Conference, London School of Economics, October, 2006.
- Gérard Marcel, *Le financement des études supérieures transfrontalières*, AFSE, Paris, 2006.
- Gérard Marcel, *Reforming the taxation of Multijurisdictional Enterprises in Europe, an issue in bottom up Fiscal Federalism*, Séminaire de la chaire de Finance Publique, Munich, 2006.
- Gérard Marcel, *Changing the taxation of multijurisdictional firms, who gains ? who loses ? Does tax competition increase ?*, XXIII^{ème} Journées de Microéconomie Appliquée, Nantes, 2006.
- Gérard Marcel, *Reforming the taxation of multijurisdictional enterprises in Europe: a tentative appraisal*, CESifo Summer Institute, Venise, Italie, 2006.
- Gérard Marcel, *Reforming the taxation of Multijurisdictional Enterprises in Europe, an issue in bottom up Fiscal Federalism*, Annual Congress of the Internal Institute of Public Finance, Paphos, Chypre, 2006.
- Gérard Marcel, *Reforming the taxation of Multijurisdictional Enterprises in Europe, "coopetition" in a bottom-up Federation*, IFIR-CESifo Conference on New Directions in Fiscal Federalism, Lexington, USA, 2006.
- Gérard Marcel, *Strategies of Multinationals and Government Revenues*, DG EcFin Workshop on Corporate tax competition and coordination in Europe, Bruxelles, 2006.
- Gérard Marcel, *Reforming the taxation of multijurisdictional enterprises in Europe: a tentative appraisal*, European aspects of corporate taxation, IBFP, Bruxelles, 2006.
- Gérard Marcel, *Reforming the taxation of multijurisdictional enterprises in Europe: a tentative appraisal*, Internal Seminar DG Taxud, Bruxelles, 2006.
- Gérard Marcel, Ruiz Fernando, *Interjurisdictional Competition for Higher Education and Firms*, 8th Meeting of the Society for Social Choice and Welfare, Istanbul, Turkey, 2006.

4. Other publications

- Aktas Nihat, de Bodt Eric, Roll Richard, *"Hubris, learning, and M&A decisions: Empirical Evidence"*, UCLA Finance Working Paper Series 02-06, 2006.
- Boucher Jean-Philippe, Denuit Michel, Guillén Montserrat, *Risk classification for claim counts: Zero-inflated mixed Poisson and hurdle models*, 2006, Working Paper 06-06.
- Boucher Jean-Philippe, Denuit Michel, Guillén Montserrat, *Models for insurance claim count with time dependence based on generalisations of Poisson and Negative Binomial distributions*, 2006, Working Paper 06-13.
- Courtois Cindy, Denuit Michel, *Convex bounds on multiplicative martingales, with applications to pricing in incomplete markets*, 2006, Working Paper 06-05.
- Courtois Cindy, Denuit Michel, *S-convex extremal distributions with arbitrary discrete support*, 2006, Working Paper 06-10.
- Delwarde Antoine, Denuit Michel, Partrat Ch., *Negative Binomial version of the Lee-Carter model for mortality forecasting*, 2006, Working Paper 06-08.
- Delwarde Antoine, Denuit Michel, *On a Poisson GLM variant of Chain-Ladder for claim counts*, 2006, Working Paper 06-12.
- Denuit Michel, *The diversification theorem restated: A brief comment*, 2006, Working Paper 06-14.
- Denuit Michel, *Distribution of the random future life expectancies in log-bilinear mortality projection models*, 2006, Working Paper 06-15.
- Denuit Michel, Devolder Pierre, *Titrisation et assurance*, Reacfin Newsletter 2, 2-4, 2006.
- Denuit Michel, Robert C., *Actuariat des Assurances de Personnes: Modélisation, Tarification et Provisionnement*, Economica, Paris, 2006, Audit-Actuariat-Assurance.
- Delwarde Antoine, Denuit Michel, Devolder Pierre, Maréchal Xavier, *Prix de rentes: de la réglementation aux "fair value"*, Reacfin Newsletter 1, 2006.
- Delwarde Antoine, Denuit Michel, *Construction de tables de mortalité d'expérience*, Monde de l'Assurance 3, 22-27, 2006.
- Devolder Pierre, Denuit Michel, *Continuous time stochastic mortality and securitization of longevity risk*, 2006, Working Paper 06-02.
- Devolder Pierre, *Life annuitization : why and how much*, 2006, 36,2.
- Devolder Pierre, *A note on the instability of the un projected individual level premium cost method*, 2006, Vol. 13.
- De Wolf Michel, *Comptabilité des petites ASBL: peut-on faire mieux, ou différemment, que ce que n'exige l'arrêté royal du 26 juin 2003?*, ASBL Actualités 50, p. 1-3, 2006.
- De Wolf Michel, *L'impact de la suppression des titres au porteur sur les dons aux ASBL*, Les dossiers d'ASBL Actualités 1, p. 117-124, 2006.
- De Wolf Michel, *Comptabilité des ASBL: tenue sur papier ou électroniquement?*, ASBL Actualités 58, p. 1-3, 2006.
- De Wolf Michel, *Et si nous voulions nous séparer de notre commissaire*, ASBL Actualités, p. 4-5, 2006.

- De Wolf Michel, *Quel statut fiscal pour les bénéfices antérieurs d'une ASBL qui émigre de l'impôt des personnes morales vers l'impôt des sociétés?*, ASBL Actualités 64, p. 4-5, 2006.
- De Wolf Michel, Rossignol J.L., *La comptabilité des PME face à la normalisation internationale en France et en Belgique*, C.&F.P, p. 321-332, 2006.
- De Wolf Michel, *La nouvelle réglementation comptable et le révisorat d'entreprises dans l'enseignement libre subventionné en Communauté française*, 2006, p. 241, La Charte.
- De Wolf Michel, *Droit des affaires - actualités et perspectives*, 2006, p. 589, ECCL.
- De Wolf Michel, *Revisorat d'entreprises: nouvelles attentes, nouvelles exigences*, La Charte, 2006, p. 347.
- Dhaene J., Denuit Michel, Vanduffel S., *Positive dependence decreases the diversification benefit*, 2006, Working Paper 06-11.
- Gérard Marcel, *Reforming the taxation of multijurisdictional enterprises in Europe: a tentative appraisal*, 2006, p. 49, CESifo, Vol.1795.
- Gérard Marcel, *Reforming the taxation of multijurisdictional enterprises in Europe: a tentative appraisal*, 2006, p. 47, Economic Paper, Vol. 265 .
- Gérard Marcel, *Reforming the taxation of Multijurisdictional Enterprises in Europe, "cooperation" in a bottom-up Federation*, 2006, p. 41, CESifo, Vol.1860.
- Gérard Marcel, *Reforming the taxation of Multijurisdictional Enterprises in Europe, "cooperation" in a bottom-up Federation*, 2006, p. 39, IFIR.
- Gérard Marcel, *Interjurisdictional Competition for Higher Education and Firms*, 2006, p. 31, CESifo.
- Gérard Marcel, *Enseignement supérieur, pluralité des juridictions et globalisation*, 2006, La lettre de l'AFSE, p. 5-8, Vol. 65.
- Maréchal Xavier, Denuit Michel, Vinck I., Closon J.-P., *Etude relative aux coûts potentiels liés à une éventuelle modification des règles du droit de la responsabilité médicale. Phase III: Affinement des estimations*, 2006, KCE - Centre Fédéral d'Expertise des Soins de Santé, Vol.35B.
- Schwienbacher Armin, *A Theoretical Analysis of Optimal Financing Strategies for Different Types of Capital-Constrained Entrepreneurs*, 2006, A paraître.
- Schwienbacher Armin, Giot Pierre, *IPOs, Trade Sales and Liquidations: Modelling Venture Capital Exits Using Survival Analysis*, 2006, A paraître.
- Schwienbacher Armin, Perotti E., *The Political Origin of Pension Reform*, 2006.
- Schwienbacher Armin, McCahery J., *Bank Reputation in the Private Debt Market*, 2006.
- Schwienbacher Armin, *An Empirical Analysis of Venture Capital Exits in Europe and in the United States*, 2006.
- Schwienbacher Armin, *Innovation and Venture Capital Exits*, 2006.
- Schwienbacher A., Cumming D., Fleming G., *Corporate Relocation in Venture Finance*, 2006.
- Schwienbacher Armin, Cumming D., Fleming G., *Financial Intermediaries, Ownership Structure and Monitored Finance: Evidence from Japan*, 2006.
- Schwienbacher Armin, Arping S., *The Real Effect of Bank Market Power: A Financial Intermediation Approach*, 2006.
- Schwienbacher Armin, Cumming D., Fleming G., *Style Drift in Private Equity*, 2006.

- Schwienbacher Armin, Hege U., Palomino F., *Determinants of Venture Capital Performance: Europe and the United States*, 2006.

5. International research activities

5.1. Workshops and conferences

DE BODT ERIC

- “*Hubris, Learning, and M&A Decisions: Empirical Evidence*”; with N. Aktas and R. Roll, Séminaire du CEREG , Université de Paris IX Dauphine, October 2006.
- “*Hubris, Learning, and M&A Decisions: Empirical Evidence*”; with N. Aktas and R. Roll, CORE Econometric Seminar, Université catholique de Louvain , October 2006
- “*Hubris, Learning, and M&A Decisions: Empirical Evidence*”; with N. Aktas and R. Roll, 4th Corporate Finance Day, Hasselt University, September 2006
- “*Evidence of the contribution of legal insider trading to market efficiency*”, with N. Aktas and H. Van Oppens, University of Alicante, May 2006
- “*Evidences on the Contribution of Legal Insider Trading to Market Efficiency*”, with N. Aktas and H. Van Oppens, Workshop on Financial Market Quality, Euronext Paris, March 2006

DEVOLDER PIERRE

- 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.

SCHWIENBACHER ARMIN

- Member of the Refereeing Committee for the 2006 Annual European Finance Association (EFA) meeting (2006), held in Zurich (Switzerland), 2006
- Member of the Programme Committee for the 2006 RICAFE-2 meeting, held in London (UK) , October 2006

5.2. Academic visits

DEVOLDER PIERRE

Visits to Other Institution

- Université de Barcelone
- Université La sapienza, Rome
- EM, Lyon

GÉRARD MARCEL

Visits to Other Institution

- CESifo, Munich, 03->04/2006

SCHWIENBACHER ARMIN

Visits to Other Institution

- University of Amsterdam Business School

6. Research Collaborations

6.1. Research Contracts

DEVOLDER PIERRE

Financial Support : Chaire AXA, Chaire Fortis

6.2. Doctorats

DE BODT ERIC

- *"Evaluation des options et gestion des risques financiers par les réseaux de neurones et par les modèles à volatilité stochastique"*, 20 février 2006, Université de Paris 1 - Panthéon - Sorbonne,
- *"Volatility Dynamics Around Information: Empirical Evidence from the Euro/Dollar Currency Market"*, Novembre 2006, UCL

Habilitation à Diriger des recherches: 19 juin 2006, Université de Lille 2

Direction de thèse

Hicham Daher, Université de Lille 2, Hervé Van Oppens, UCL, Tanguy de Launois, UCL

DE HARLEZ DE DEULIN YANNICK

- *Dealing with environmental uncertainty for entrepreneurs in knowledge-intensive firms - the role of management control systems in performance measurement*

DE LAUNOIS TANGUY

- *Information, volatility and cost of capital*

DEVOLDER PIERRE

- *Jérôme Barbarin: Fair valuation of life insurance contracts*
- *Donatien Hainaut : Individual and institutional ALM*
- *Marcel Mulumba : l'assurance : vecteur catalyseur du développement économique*
- *Aurélié Miller : Optimal allocation between pay as you go and funding in pension*
- *Antoine Delwaerde (PhD in Science, optional Actuarial science)*

GÉRARD MARCEL

- *Mohammed El Bakkali : the Taxation of Multinationals in Europe*
- *Savina Princen : the Taxation of Multinationals in Europe*

SCHWIENBACHER ARMIN

- *PhD Examination Committee of Katleen Baeyens (2006), Univ. Ghent*

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

Brechet T.,
de Nanteuil-Miribel M.,
Kestemont M-P.,
Perilleux T.,
Swaen V.,

SCIENTIFIC STAFF

Abs S.,
Adam F.,
Fraselle N.,
Maon F.

2. Scientific publications

2.1. Articles published in Scientific Journals

- Andreu Luisa, Bigné Enriqu , Chumpitaz Ruben, Swaen Val rie, *How does the retail environment influence consumers' emotional experience? Evidence from two retail settings*, The International Review of Retail, Distribution, and Consumer Research 16, Fascicule 5, 259-278, 2006.
- Bigné Enriqu , Andreu Luisa, Chumpitaz Ruben, Swaen Val rie, *Efectos de las variables ambientales y atribuci n en las emociones en centros comerciales. Una aplicaci n en la compra de perfumer a y cosm tica*, Revista Espa ola de Investigaci n de Marketing ESIC 10, Fascicule 1, 45-68, 2006.
- Bigné Enriqu , Andreu Luisa, Chumpitaz Ruben, Swaen Val rie, *La influencia de la Responsabilidad Social Corporativa en el comportamiento de compra de estudiantes universitarios*, Revista Espa ola de Investigaci n de Marketing ESIC. Septiembre-D cembre, p. 135-161, 2006.

2.3. Book chapters

- P rilleux Thomas, Askenazy P., Cartron D., De Coninck F., Gollac M., *Diffusion du contr le et intensification du travail*, 2006, p. 367-375.
- Swaen, V. and Vanhamme J. (2006), *Utilisation de l'argument citoyen dans les campagnes de communication des entreprises. Analyse des risques dans la perspective d'une crise*, in P. de la Broise and T. Lamarche (Eds.), *Responsabilit  Sociale : vers une nouvelle communication des entreprises ?*, Septentrion, pp. 75-98.
- Fraselle N., Haynes I. (2006), *Social change for changing the consumer's behaviour. Application of the actionalist theory to the issue of consumption*, in Sustainable Consumption, Ecology and Fair Trade, Routledge, December 2006, p. 186-200.

3. Conferences

- Abs S. (2006), *Effets de communications prônant la dématérialisation de la consommation*, Doctoral colloquium of the French Marketing Association, Nantes, Mai 9-10.
- De Rongé Yves, Pondeville Sophie, Swaen Valérie, *L'impact de la stratégie environnementale, des pressions des stakeholders et de l'environnement externe sur la mise en place de systèmes de contrôle de gestion environnemental*, Poster pour le Forum doctoral de la LSM, Louvain-la-Neuve, 21 décembre, 2006.
- Fraselle N. (2006), *OGM, consommateurs et société civile*, HEC Liège, Séminaire transdisciplinaire en biotechnologies (Séminaire collectif sous la direction de P. du Jardin), 3 mars 2006.
- Fraselle N. (2006), *La norme SA8000 et son application dans les pays du Sud*, Université de Jenin Palestine, 25 novembre 2006.
- Fraselle N. (2006), *Development of On-Line Consumer Education Tools for Adults*, EU Consumer Policy Network, EC DG SANCO, 21 March 2006.
- Fraselle N. (2006), *Promotion des politiques de consommation et de concurrence au Maroc et en Afrique sub-saharienne*, Université de Ouagadougou, 22 mai 2006.
- Fraselle N. (2006), *Responsabilité Sociétale de l'Entreprise : systèmes intégrés de gestion*, Rotary Club Luxembourg Vallées, 12 septembre 2006.
- Fraselle N. (2006), *Sécurité, Environnement, Travail : vers une approche intégrée des trois systèmes*, Agence Bruxelloise pour l'Entreprise, 28 septembre 2006.
- Fraselle N. (2006), *Eco-consommation des entreprises : Comment changer leur système de gestion*, Syndicat Libéral de Belgique, 20 octobre 2006.
- Gond Jean-Pascal, El Akremi Assaad, Igalens Jacques, Swaen Valérie, *A Corporate Social Responsibility - Corporate Financial Performance Behavioral Model for employees*, Conférence Internationale sur Corporate Responsibility and Global Business : Implications for Corporate and Marketing Strategy, Londres, UK, 13-14 juillet, 2006.
- Lindgreen Adam, Swaen Valérie, Maon François, Johnston Wesley, *Corporate Citizenship and Marketing Practices : An Empirical Study*, EABIS Annual Colloquium on Corporate Sustainability, Strategic Management, And The Stakeholder View Of The Firm, Bocconi, Italie, 11-12 septembre, 2006.
- Maon F., *Analysing actors' dynamics between the company and its external stakeholders throughout the implementation process of CSR policies*, Poster pour le Forum doctoral de la LSM, Louvain-la-Neuve, 21 décembre, 2006
- Maon François, Swaen Valérie, *On the differential impact of CSR commitments and CSR communication on company's external stakeholders. The case of Ikea*, Conférence Internationale sur Corporate Responsibility and Global Business : Implications for Corporate and Marketing Strategy, Londres, UK, 13-14 juillet, 2006.
- Maon François, Swaen Valérie, *Integration and communication of corporate social responsibility principles by IKEA: an analysis of the influence of and on external stakeholders*, 13th International Conference of the Greening of Industry Network, Cardiff, UK, 2-5 juillet, 2006.

- Maon François, Swaen Valérie, *How do CSR commitments and communication influence external and ubiquitous stakeholders of the company? The case of IKEA*, 35th European Marketing Academy Conference, Athènes, Grèce, Mai, 2006.
- Périlleux Thomas, *Processus de subjectivation et changement social*, Colloque du groupe interdisciplinaire de recherches et d'observation du changement social, Louvain-la-Neuve, Mai, 2006.
- Périlleux Thomas, *Tensiones de la flexibilidad y procesos de subjectivacion en el trabajo*, Colloque : Flexibilidad laboral e subjectividades. Hacia una comprension psicosocial del empleo contemporaneo, Universidad Alberto Hurtado, Santiago de Chile, Décembre, 2006.
- Périlleux Thomas, *Controverses et cliniques en situation de travail. A partir de récits d'expérience professionnelle.*, Conférence dans le Master en Sciences de l'éducation, Université Paris X, Janvier, 2006.
- Périlleux Thomas, *Débat autour de l'ouvrage collectif "avons-nous besoin d'un tiers" ?*, Débat autour de l'ouvrage collectif, Librairie Agora Louvain-La-Neuve, Février, 2006.
- Périlleux Thomas, *Activation et employabilité : un nouveau modèle de travail (sur soi) ?*, Formation du MOC, Bruxelles, Mars, 2006.
- Périlleux Thomas, *Le travail de soignants, un travail en tension*, Séminaire de Bases anthropologiques, épistémologiques et éthiques en recherche clinique, Louvain-La-Neuve, Avril, 2006.
- Périlleux Thomas, *Se mettre d'accord sur des désaccords ? Dialogues et controverses dans la fabrication des récits d'expérience professionnelle*, Séminaire l'Association pour l'approche, la recherche bibliographique et la réappropriation de son histoire, Louvain-La-Neuve, Avril, 2006.
- Périlleux Thomas, *Sur la souffrance au travail dans les équipes de soignants en hôpital*, Séminaire de formation des assistants en psychiatrie, Woluwé, Juin, 2006.
- Périlleux Thomas, *Sur la notion de bien-être*, Séminaire « Redéfinir la croissance », Louvain-La-Neuve, Octobre, 2006.
- Périlleux Thomas, *Valeurs des soignants vs. impératifs économiques*, Midi de la Bioéthique, Louvain-en-Woluwe, Décembre, 2006.

4. Other publications

- Abs S. (2006), *Effets de communications prônant la dématérialisation de la consommation*, Working Paper 06/04, IAG-Louvain School of Management, Université catholique de Louvain, Belgium.
- Andreu L., Bigné E., Chumpitaz R., Swaen V. (2006), *How Does the Retail Environment Influence Shoppers' Emotional Experience? Evidence from Two Retail Settings*, Working Paper 06/05, IAG-Louvain School of Management, Université catholique de Louvain, Belgium.
- Frassel N., Rihoux B., Varone F., Bursens P., Loots H. (2006), *Evaluation des politiques en matière de changement de mode de production et consommation*, AP/10/10A, Belgian Science Policy.
- Maon, F., Swaen V. (2006), *Integration and Communication of CSR Principles by IKEA. An Analysis of the Influence of and on External Stakeholders*, Working Paper 06/14, IAG-Louvain School of Management, Université catholique de Louvain, Belgium.
- Maon F., Swaen V. (2006), *Un consommateur de plus en plus équitable*, Revue Louvain, Université catholique de Louvain, 162, April, pp. 15-17.
- Maon F., *Défis à la base de la pyramide*, La Libre Belgique, Supplément Libre Entreprise, August 5.
- Swaen V., Maon F. (2006), *IKEA : 'modèle à démonter' ou responsabilité sociale en mal d'inspiration ?*, Le Soir, carte blanche, October 17.

5. International research activities

5.1. Workshops and conferences

BRECHET THIERRY

- “Environmental Meetings”, Quarterly Joint Research Meetings in Environmental Economics with Université Paris 1, Université Nanterre (EconomiX) and Université Lille 1 (Equipee).
- “Macrodynamics, Technological Change and the Environment”, CORE, on behalf of the ClimNeg-3 research project (Belgian Science Policy) and on the ACI Economic Modeling of Sustainable Development (French Ministry of Research), co-organized with Raouf Boucekkine (CORE) and Katheline Schubert (U. Paris 1). , November 24 & 25, 2006
- “Intergenerational Equity in Climate Negotiations, Overlapping generations and Social Welfare”, CORE - UCL, on behalf of the ClimNeg-2 research project (Belgian Science Policy), co-organized with Claude d'Aspremont (CORE). April 27 & 28, 2006

5.2. Academic visits

BRECHET THIERRY

Visits to Other Institution

- LAMETA, Université de Montpellier
- THEMA, Université Cergy-Pontoise
- GAINS, Université du Maine
- Institut des Hautes Etudes Internationales de Genève
- EQUIPEE, University Lille 1
- EUREqua, Université Paris 1 Panthéon - Sorbonne

PERILLEUX THOMAS

Visits to Other Institution

- Université Alberto Hurtado, Santiago de Chile, Décembre 2006

SWAEN VALÉRIE

Regular Visits to Other Institutions

- Ieseg School Of Management, Lille, France (Ruben Chumpitaz, Associate Professor)
- Rotterdam School Of Management, Rotterdam, The Netherlands (Joëlle Vanhamme, Assistant Professor)
- Facultés Universitaires Notre-Dame De La Paix, Namur, Belgium (once a week during all the second semester)

TYTECA DANIEL

Visits to Other Institution

- Instituto Superior de Agronomia, Universidade Técnica de Lisboa, Lisboa, 3-30 October 2006

6. Research collaborations

6.1. Research contracts

BRECHET THIERRY

Climate, Coalitions and Technology (CLIMNEG)

Financial Support : Belgian Science Policy

Short description :

The subject of this proposal is the exploration of the potential for post-Kyoto climate regimes with respect to two key issues: (i) how stable coalitions of countries could emerge to significantly mitigate climate change, (ii) what could be the contribution of technological progress for a sustainable climate ? How these two issues interplay will be particularly examined in the project. The objectives of this research project are twofold. First, to better understand the climate negotiation process and the role of technological progress for severe GHG emission abatements in order to propose policy designs. One crucial element here is to study how potentially stable climate architectures could be influenced by long term R&D-oriented policies and instruments. Second, to help decision-makers and relevant stakeholders better understand climate issues, policy questions and scientific backgrounds, both in climate science and economic modelling. A computable integrated assessment model (CWS) will be used in that purpose.

PERILLEUX THOMAS

Fragilité humaine et travail du soin, entre contraintes institutionnelles et sollicitude

Financial Support : FNRS

NADINE FRASELLE

“Evaluation of the policy lines with regard to changes in consumer production and consumption methods” (2005-06) for the Government Federal Services of Belgium

Short description :

responsible for CONSOMAR “Consumer and Competition policies in Morocco and Sub-Saharan Africa: Promoting research capabilities, expertise and management”, Interdisciplinary network, providing advice on the development of consumer law and policy, 2003-2006, UCL with ULg and FUAGx

DOLCETA Development of “On-Line Consumer Education Tools for Adults” –27 EU Members States - (for the European Commission), with EUCEN (European Universities Continuing Education Network), 2004-2008.

EU support to the implementation of a consumer protection law and regime in Egypt, Ministry of Trade, avec SOFRECO France, 2006-2007.

Assessing the CSR positioning of GSK Biologicals, with François MAON, 2006-2007.

SWAEN VALÉRIE

FSR-UCL doctoral funding

Financial Support : FSR-UCL

Short description :

The last two decades have seen the development of significant efforts intended to specify the content of the Corporate Social Responsibility (CSR) concept. However the literature still presents few empirical investigations relating to the organizational integration process of CSR by the company and to the role played by the various stakeholders of the company at the different stages of this integration process. Moreover, studies on the impact of the communication and the implementation of CSR principles by the company on the perceptions and attitudes of its stakeholders primarily concentrate on consumers, investors and employees. They tend to forsake other major stakeholders such as local and regional authorities, trade unions, and NGOs. Research undertaken up to now furthermore generally considers only one type of stakeholders at a time and do not allow comparing the impact of CSR commitments and their communication on the various categories stakeholders of the company. The three main objectives of this doctoral research are then (1) to identify the different steps of the process of CSR integration within the strategy and the daily operations of companies, (2) to analyze and highlight the potential roles of various stakeholder groups in the development of this process and (3) to evaluate the impact of CSR commitments and their communication on different stakeholders' categories.

6.2. Doctorats

BRECHET THIERRY

- *Agustin Perez-Barahona, " Energy saving and vintage capital models ", co-supervisor with Raouf Boucekkine (CORE).*
- *Ingmar Schumacher, " Sustainability, endogenous preferences and technological change ", co-supervisor with Claude d'Aspremont (CORE).*
- *Maria Eugenia Salin, " Tradable pollution permits and market structure ".*
- *Carlotta Balestra, " Overlapping generations and the environment ".*

PERILLEUX THOMAS

- *Malaise dans la modernisation. La place des travailleurs statutaires peu qualifiés dans la modernisation des entreprises publiques, J. Cultiaux, UCL*
- *Le néo-corporatisme réinterpellé. Analyse comparative de deux politiques d'accès à l'emploi : l'apprentissage industriel en Belgique et le contrat de qualification 'jeunes' en France, A. Levêque, E.N.S Cachan-ULg*
- *Traduction et coopération pour agir dans les registres du don et de l'échange. Le cas du commerce équitable en Equateur, B. Espinosa*
- *Les transformations du champ du travail social en justice, A. Jonckheere*

SWAEN VALÉRIE

- *Maon François, FSR Researcher, «Shaping the responsible company: Analysis of the interactions between companies and their external stakeholders throughout the integration process of corporate responsibility principles», in progress (end in 2009).*

KESTEMONT MARIE-PAULE

- *Abs Stéphanie, Marketing assistant, «The influence of persuasive messages on promoting consumption dematerialisation», co-supervisor with Alain Decrop (FUNDP, Namur, Belgium), in progress (end in 2010).*

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
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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
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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
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Bulletin Français d'Actuariat	B
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California Management Review	B
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Communications of the ACM	B
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Entrepreneurship Theory and Practice (ET&P)*	B
European Accounting Review	B
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European Journal of Finance	B
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European Journal of Management	B
European Journal of Marketing	B
European Journal of Work and Organizational Psychology	B
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Finance	B
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Financial Accountability & Management	B
Financial Analysts Journal	B
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Financial Markets and Portfolio Management	B
Fuzzy Economic Review	B
Geneva Papers on Risk and Insurance Theory	B
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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
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IBM Systems Journal	B
Industrial Marketing Management	B
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Information and Software Technology	B
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International Business Review	B
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Psychological Reports	B
Psychologie du Travail et des Organisation	B
Psychology and Marketing	B
Public Choice	B
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Recherche et Applications en Marketing	B
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Relations Industrielles - Industrial Relations	B
Research and Technology Management	B
Review of Derivatives Research	B
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Revue de Droit des Affaires Internationales	B
Revue de Gestion des Ressources Humaines	B
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Southern Economic Journal	B
Stochastics	B
Technological Forecasting and Social Change	B
Transportation Journal	B
Transportation Research	B
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Accountancy	C
Belgian Actuarial Bulletin	C
Biometrical Journal	C
Bulletin des Actuaire Suisses	C
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Journal of Cleaner Production	C
Journal of Interactive Advertising	C
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Marketeer	C
Non Marchand	C
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Recherches Sociologiques	C
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