



## STAFF CURRICULUM VITAE

**NAME:** AGRELL

**SURNAME:** Per Joakim

**DATE OF BIRTH:** Stockholm, 13. January, 1967

**NATIONALITY:** Swedish

**LANGUAGES:** Speaks English, French, German, Swedish, Russian.  
Understands Danish.

**MARITAL STATUS:** Married, two children

**RESIDENCE:** Rue de la piété 9  
B-1160 Bruxelles  
BELGIUM

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**E-MAIL:** [per.agrell@sumicsid.com](mailto:per.agrell@sumicsid.com)

**URL:** <http://www.sumicsid.com>

**SUMICSID POSITION:** Senior associate consultant (since 1996)

**ACADEMIC POSITION:** Professor of operations management (tenured)  
Louvain School of Management  
Université catholique de Louvain  
Place des Doyens 1  
B - 1348 Louvain-la-Neuve  
BELGIUM

**LAST UPDATE OF CV:** 08 November 2009

## EDUCATION

- 2000 **Docent (post.doc. habilitation)** in production economics, Linköping University, Sweden.
- 1991 – 1995 **Ph. D. (tekn. dr.)** in production economics, Department of production economics, Linköping University, Sweden.
- 1990 – 1991 **M. Sc.** in industrial engineering and operations research, Department of Industrial Engineering, University of Massachusetts, Amherst, USA.
- 1987 – 1991 **M. Sc. (civ.ing.)** in industrial engineering and management, Linköping University, Sweden.
- 1986 – 1987 Russian and East-European studies, Uppsala University, Sweden.
- 1986 – 1987 **Sergeant**, Defence Interpreters School (TolkS), Swedish Air Force.

## CONSULTING POSITIONS

- 1995 – **Senior Associate Consultant,**  
**SUMICSID GROUP**  
Sweden (1995-2000), Belgium (2001-).

## ACADEMIC POSITIONS

- 2008 **Visiting professor**, Department of Business Economics, Universitat Autònoma de Barcelona (UAB), Barcelona, Spain. (on leave from UCL)
- 2005 – **Research Associate**, Fondazione Eni Enrico Mattei (FEEM), Programme Privatisation, Regulation and Corporate Governance, Milano, Italy
- 2001 – **Professor of operations management** (*chargé de cours à titre définitif* 2001-2005, *professeur à titre définitif* 2005-),  
Louvain School of Management (LSM)  
**Faculty member**, Center of Operations Research and Econometrics (CORE) (Associate fellow 2006-2008, permanent 2009-)  
Université catholique de Louvain, Belgium.
- 2000 – 2001 **Visiting professor** (stationed by Royal Agricultural Univ),  
Center of Operations Research and Econometrics (CORE),  
Université catholique de Louvain, Belgium.
- 1998 – 2001 **Associate professor of managerial economics** (*lektor*),  
Department of economics and natural resources,  
Royal Agricultural University, Denmark.
- 1997 – 1998 **Visiting associate professor of operations research**, (*gästelektor*)  
Department of operations research, University of Copenhagen, Denmark.
- 1996 – 1997 **Visiting professor of management information systems**, Department of management, University of Georgia, Athens, USA.
- 1996 **Research Scholar**, Methodology of Decision Analysis (MDA) Project and Land-Use and Change (LUC),
- 1995 **Young Scholar**, Methodology of Decision Analysis (MDA) Project,  
International Institute for Applied Systems Analysis, Laxenburg, Austria.
- 1996 – 2000 **Assistant professor of production economics** (*universitetslektor*),
- 1991 – 1995 **Research assistant**, (*doktorand*)

1989 – 1990

**Teaching assistant, (*amanuens*)**

Department of production economics, Linköping University, Sweden.



## SELECTED CONSULTING PROJECTS

- 2009 DERA *Transmission operator analysis Energinet.dk*  
Specific analysis for the Danish regulator on the total cost efficiency, and regulatory strategy in relation to Energinet.dk transmission system operator.
- 2009 NGET *Transmission operator analysis National Grid Electricity Transmission*  
Specific analysis for the transmission system operator NGET in view of the tariff review.
- 2009 STenA EK/NMa *Transmission operator analysis TenneT*  
Specific analysis for the Dutch regulator on the operating expenditure efficiency, opening balance capital base, integration of HV assets and regulatory strategy towards TenneT transmission system operator.
- 2009 e<sup>3</sup>GRID Iceland *Landsnet cost analysis – e<sup>3</sup>GRID*  
Investigation of the cost efficiency 2006 of Landsnet, Iceland, and in particular sensitivity of results with respect to some exogenous factors.
- 2009 e<sup>3</sup>GRID OFGEM *Transmission operator analysis – e<sup>3</sup>GRID*  
Analysis of three UK transmission licensees in relation to the e<sup>3</sup>GRID benchmarking project, specific report and workshops.
- 2008 CEER / e<sup>3</sup>GRID (AT, SE, NO, NL, SL, UK, LU, FI, SE, DK, IS, HU, LI, MT, IT, ES, PT, CZ, SK)  
*International Benchmarking of Electricity TSOs – e<sup>3</sup>GRID*  
Teamleader methodology for largest CEER TSO project for regulation, member of steering group (23 TSO). SUMICSID in cooperation with van Dijk Management Consultants and Tractebel Engineering Consultants.
- 2007 Bundesnetzagentur / GERNER IV (DE)  
*Benchmarking of Electricity DSO, gas TSO and DSO*  
Project leader. Analysis and development of the efficiency assessment models for energy networks (electricity and gas), including (i) econometric analysis of cost drivers (ii) DEA and SFA model development, (iii) regulatory design advice. Includes all gas and electricity operators (full results for DSOs and gas TSOs). With EE2 Dresden.
- 2007 CREG / RAMIEL (BE)  
*Setting the X-factor for Gas and Electricity TSOs*  
Expert and project leader for task force responsible for the setting of the revenue cap, in particular the X-factor for the Belgian electricity and gas TSOs (Elia and Fluxys) during a period of 5 weeks.
- 2007 Bundesnetzagentur (DE)  
*Capital valuation project*  
Consultant and expert in subproject on regulatory asset base determination for gas and electricity DSOs, on treatment and classification of economies of scale in DSOs and other issues related to the implementation of the 2006 proposal.
- 2007 DIGINN (NO-SE)  
*Decentralized generation project*  
Researcher in larger applied project on Decentralized Energy Resources in the Integrated Nordic Energy Market, responsible for impact analysis on network regulation, contracting design and unbundling rules.

- 2007 EBL-KS-FSN (NO)  
*Cost Model project*  
Invited expert and workshop organizer concerning the analysis, evaluation and prospecting of alternative cost norm models for electricity distribution in the Norwegian market, including an assessment of the current Norwegian regulation model and a workshop at UP Comillas in Madrid concerning the MRRSEN model.
- 2006 - 2008 Orkustofnun (IS)  
*ICEDISC project*  
Project leader. Analysis and development of the efficiency assessment models for electricity distribution networks, including (i) econometric analysis of cost drivers (ii) DEA and SFA model development, (iii) regulatory design advice and (iv) establishment of an international reference set for the benchmarking.
- 2006 Bundesnetzagentur (DE)  
*GERNER project*  
Project leader. Analysis and development of the efficiency assessment models for energy networks (electricity and gas), including (i) econometric analysis of cost drivers (ii) DEA and SFA model development, (iii) regulatory design advice and (iv) training seminars at 3 levels. Includes all gas and electricity operators (full results for DSO and a proposal for TSO regulation)
- 2005 - 2006 Finland Energy Authority (FI)  
*EMV project*  
Analysis and development of the alternative efficiency assessment models for electricity distribution systems including econometric analysis of cost drivers for a SFA model and validation of DEA formulations.
- 2005 International (SE, FI, DK, NO)  
*NEMESYS project*  
Project leader, coordinating four institutes. Analysis and development of a pan-Nordic regulation system for electricity distribution systems, including (i) empirical stakeholder analysis, (ii) theory for regulatory harmonization, (iii) new regulatory mechanisms and (iv) multidimensional feasibility studies. Commissioned by Nordenergi
- 2005 Elia (BE)  
*BELPEX validation*  
Expert validation (with prof. Philippe Chevalier, n-Side SA) of the market coupling algorithm for the APX-PowerNEXT-BELPEX market.
- 2004 - 2005 International (NL, A, PT, DK, NO)  
*ECOM+ 2004 project*  
Project leader with Peter Bogetoft. Full scale international benchmarking of construction, operations and maintenance for transmission system operators, method development, data collection and analysis.
- 2004 Norwegian Energy Regulator NVE  
*Efficiency Model Design*  
Development, analysis and testing of new DEA and SFA models for DSO regulation under the new 2007 regulatory reform.
- 2004 Bureau van Dijk (DG TREN)  
*Mid-term Evaluation of the TEN-E programme*  
Expert evaluator on electricity networks. Performed interviews and analyses for ten European countries, regulators and TSOs.

- 2004 Norwegian Energy Regulator NVE  
*Dynamic Regulation, Efficiency Model Development, Norm Models*  
Project leader with Peter Bogetoft on several projects. Suggested dynamic yardstick elements for the 2007 regulatory revision of electricity distribution.
- 2003 Dte, the Netherlands Energy Regulator  
*TSO Regulation Strategy*  
Advisory sessions on interpretation, limitations and development of the ECOM+ results on the actual revenue cap setting in 2003.
- 2003 International (NL, A, BE, DK, NO)  
*ECOM+ project*  
Project leader with Peter Bogetoft. Full scale international benchmarking of construction, operations and maintenance for transmission system operators, method development, data collection and analysis.
- 2003 International (NL, DK, NO, SE, SF)  
*TSO Charter Project*  
Project leader with Peter Bogetoft. Developed a comprehensive performance assessment framework for transmission operators, called the TSO Charter of Accountability.
- 2003 Norwegian Energy Regulator NVE  
*Integrated Parallel Energy Network Regulation*  
With Peter Bogetoft. Research projects on the regulation of alternative electricity distribution technologies, suggesting areas of further study.
- 2003 Norwegian Energy Regulator NVE  
*Ex-post Energy Regulation*  
With Peter Bogetoft. Project to investigate the use of ex post elements for updating in the electricity distribution regulation.
- 2003 Norwegian Energy Regulator NVE  
*Technical Norm Models in Regulation*  
Project leader with Peter Bogetoft. Project with empirical and analytical emphasis, exploring the Chilean, Spanish and Swedish technical regulation models for prospective use in the Norwegian regulation.
- 2001 Swedish Energy Agency  
*Incentive Regulation*  
Project leader with Peter Bogetoft. Exploratory project to strategically examine the impact and power of DEA regulatory benchmarking in a light-handed regulation regime. Several follow-up sessions under 2002-2003.
- 2002-3 Swedish Energy Agency  
*Training Courses in DEA for Regulation*  
Full training package including pre-assessment, lectures, exercise material, coaching, and certification for selected civil servants using the DEA method developed in 2000.
- 2001 Swedish Energy Agency  
*Nordic Open DEA Electricity Distribution Benchmarking..*  
Representing the Swedish Energy Agency. Project management, data collection, validation and support of the Nordic study.
- 2000 Swedish Energy Agency  
*Design, Validation and Testing of A New Efficiency Measurement Method for Electricity Distribution Utilities..*  
Project leader with Peter Bogetoft. Published and implemented in the authority's monitoring practice.

2000 - CREG (Belgium), RTE (France)  
*Various expert assignments in energy regulation economics*

## RESEARCH GRANTS AND PROJECTS

2008 - 2010 *SHARC Shared Resource Management*, ARC project for the Wallon Government. Co-promotor with CORE and FUCaM, 3 PhD students.

2008 Personal research grant from the Catalonian Government, UAB.

2007 – 2008 *DIGINN Distributed Generation in the Nordic Energy Market*. Nordic Energy Research, research project, with Peter Bogetoft. 30k€.

2006 *Yardstick regimes in Hospital Reimbursement*, research project for the Dutch Health Care Agency NZa (CTG/ZAio), Utrecht, NL. With Peter Bogetoft.

2006 - 2009 *LogisTIC*, logistics project for the Wallon Government, Plan Marshall. Co-promotor for the Center of Supply Chain Management, 3 PhD students, 230 k€/yr.

2004 - 2006 *L'Oréal Supply Chain Management*, partnership with competence exchange, research and training, 1 PhD student, 100 kEUR/yr.

2005 – 2007 EU 6<sup>th</sup> framework project (*RELIANCE, CooRdination perspectives of the European transmission network research activities to optimise the reLLAbility of power supply, usiNg a systemiC approach, involving growing distributed generation and renewable energy markEts*), subproject *Regulation Impact on Research Financing*, budget 42 k€, work package leader.

2005 – 2007 *Structural Efficiency and Reallocations: Measurement and Mechanism Design*), SSF Denmark, with Peter Bogetoft, Jens Leth Hougaard and Jørgen Tind, total budget 130k€, senior researcher.

2003 – 2009 EU 6<sup>th</sup> framework project (*EU-DEEP, The birth of a European Distributed Energy Partnership that will help the large-scale implementation of distributed energy resources in Europe*), subproject *Regulation Economics of Distributed Generation*, total budget 30 MEUR, permanent researcher.

2004 - 2005 Norwegian Research Council, KMB project (*Regulation of Energy Infrastructure*), research project with NVE (Norwegian Energy Authority) and Norwegian School of Business, 1 PhD student.

2001 – 2002 FSBR, *Supply Chain Coordination and Efficiency*, EUR 20,000.

2000 – 2001 Energy Authority, *Pricing of central heating in a liberalized energy market – benchmarking of central heating production*, with the Danish Research Agency, DKK 268.000 (\$38,000) of DKK 1,234,000 (\$176,000).

1997 – 2000 Danish Research Council, *Multi criteria modelling and efficiency analysis*, personal research tax exemption.

1997 – 1999 Ericsson Telecom: SEK 80,000 (\$10,000) /yr, allotted funding *IMIE/ERA Global Manufacturing and Logistics Research Project*  
 Senior project member, graduate advisor in efficiency analysis.

1997 – 1999 L E Lundberg Research Fund: SEK 400,000 (\$52,000)  
*Models and Methods for Process Development and Evaluation of Process Development*.  
 Researcher in sub projects: *Structural Methods and Hybrid Approaches for Design and Dynamic Re-engineering of Complex Production Systems*.

1996 – 1998 International Graduate School of Industrial Management and Engineering:  
 Researcher, personally allotted funding SEK 200,000 (\$26,000)  
 IT and Production.

- 1995 – 1998 Volvo Research and Volvo Educational Fund: SEK 750,000 (\$98,000)  
*Manufacturing Systems Design, Planning and Control.*  
 Researcher in sub projects: *Concurrent Engineering*  
*Modelling and Analysis of Complex Systems.*

## RESEARCH CONTRIBUTIONS

### BOOKS AND BOOK CHAPTERS

- 2008 Agrell P J and P Bogetoft. Harmonizing the Nordic Regulation of Electricity Distribution in Rönnqvist, M., M. Bjørndal and E. Bjørndal. (Eds) *Energy, Natural Resources and Environmental Economics*. Springer.
- 2006 Syrjänen, M., P. Bogetoft, P.J. Agrell *Efficiency benchmarking project B: Analogous efficiency measurement model based on Stochastic Frontier Analysis*, Final Report, EMV Energy Market Authority of Finland, (Gaia OY).
- 2005 Agrell P J. Preface in Philippart M, C Verstraete et S Wynen. *Collaborative Sourcing Strategic Value Creation through Collaborative Supplier Relationship Management*. Preface.
- 2005 Agrell, P J (Ed.). *Pan-Nordic Regulation of Electricity Distribution System Operators*. Sumicid AB, Stockholm.
- 1999 Agrell, P J. Multiple Objective Optimization in Agro-Ecological Land-Use Planning. In Helles, Holten-Andersen and Wichman (Eds.) *Multiple Use of Forests and Other Natural Resources*, Kluwer, Dordrecht, 109-121.
- 1998 Agrell, P J, A Stam and B Lence. Second-Generation Interactive Multi-Criteria Decision Making in Reservoir Management, with. In Stewart and van der Honert (Eds.) *Trends in Multicriteria Decision Making*, Springer, Berlin, 324-335.
- 1998 Agrell, P J. A New Conflict-Based Redundancy Measure. In Stewart and van der Honert (Eds.) *Trends in Multicriteria Decision Making*, Springer, Berlin, 272-282.
- 1995 Agrell P J. *Interactive Multi-Criteria Decision Making in Production Economics*, PROFIL 15, Tekn Dr Dissertation, Linköping Inst of Tech.

### REFEREED JOURNAL ARTICLES

- 2008 Agrell, P J and K Karoui, The RELIANCE Project on Electricity Transmission System Research, *SRBE Revue E*, **124**(4), 18 – 24.
- 2008 Agrell, P J and J Pouyet. The Regulation of Transborder Network Services. *Review of Network Economics*, **7**(1), 111 – 135.
- 2005 Agrell, P J, P Bogetoft and J Tind. Polarity in DEA on Relaxed Convexity Assumptions. *Advanced Modeling and Optimization*, **7**(2), 145-167.
- 2005 Agrell, P J, P Bogetoft and J Tind. Dynamic DEA and Yardstick Regulation in Scandinavian Electricity Distribution. *Journal of Productivity Analysis*, **23**(2), 173-201.
- 2004 Agrell, P J and P Bogetoft. Economic and Environmental Efficiency of District Heating Plants. *Energy Policy*, **33**(10), pp 1351-1362.
- 2004 Agrell, P J, Lindroth, R and A Norrman Risk, Information and Incentives in Telecom Supply Chains. *International Journal of Production Economics* **90**(1), pp. 1-16.

- 2002 Agrell, P J, P Bogetoft and J Tind. Incentive plans for Productive Efficiency, Innovation and Learning. *International Journal of Production Economics*, **78**, pp. 1-11.
- 2001 Agrell, P J and J Tind. A Dual Approach to Nonconvex Frontier Models *Journal of Productivity Analysis*, **16**, pp. 129-147.
- 2001 Agrell, P J and B M West. A Caveat on the Measurement of Productive Efficiency. *International Journal of Production Economics*. **69**(1), pp. 1-14.
- 2000 Agrell, P J and R Steuer. ACADEA - A Decision Support System For Faculty Performance Reviews. *Journal of Multi-Criteria Decision Analysis*, **9**, pp. 191-204.
- 1998 Agrell, P J, B. Lence and A. Stam An Interactive Multi-Criteria Decision Model for Multi-Purpose Reservoir Management: the Shellmouth Reservoir, *Journal of Multi-Criteria Decision Analysis*, **7**(2), pp. 61-86.
- 1997 Agrell, P J. On Redundancy in MCDM. *European Journal of Operational Research*, **98**(3), pp. 571-586.
- 1997 Agrell, P J and J Wikner. A Coherent Methodology for Productivity Analysis Employing Integrated Partial Efficiency, *International Journal of Production Economics*, **46-47**, pp 401-411.
- 1996 Agrell, P J and J Wikner. An MCDM Framework for Dynamic Systems, *International Journal of Production Economics*, **45**, pp. 279-292.
- 1995 Agrell, P J. A Multi-Criteria Framework for Inventory Control, *International Journal of Production Economics*, **41**, pp. 59-70.
- 1994 Agrell, P J. A Multicriteria Approach to Concurrent Engineering, *International Journal of Production Economics*, **34**, pp 99-113.

#### SUBMITTED PUBLICATIONS

- 2008 Agrell, P J. *Incentive Regulation of Networks* . Invited paper for *Florence School of Regulation Discussion Paper Series*. Conditionally accepted, under revision.

#### RECENT REFEREED CONFERENCE PROCEEDINGS

- 2005 Deuse, J, Benintendi, D, Agrell, P J and P Bogetoft Power System and Market Integration of DER, The EU-DEEP Approach. *CIREN 18<sup>th</sup> International Conference on Electricity Distribution*, Turin, Italy, June 6-9.
- 2004 Agrell, P J and A Norrman Understanding Supply Chain Risk Sharing: A Three-tier Principal-Agent Approach. *Proceedings of the 16<sup>th</sup> Annual Conference for Nordic Researchers in Logistics*, Linköping, Sweden, June 7-8, pp. 17-33.
- 2004 Agrell, P J and K Karantininis *Cooperative Supply Chains in Peace and at War. Preprints 12<sup>th</sup> Working Seminar on Production Economics*, Igls, Austria, Feb 17-20.
- 2003 Agrell, P J and P Bogetoft *Evolutionary Regulation: From CPI-X towards Contestability*, Position Paper, ENCORE, University of Amsterdam, Oct 23.
- 2002 Agrell, P J, Lindroth, R and A Norrman *Risk, Information and Rewards in Supply Chains: Agency Mechanisms for Multi-level Coordination in Telecom. Preprints 11<sup>th</sup> Working Seminar on Production Economics*, Igls, Austria, Feb 18-21.
- 2001 Agrell, P J and P Bogetoft. DEA-based Regulation in Health Care Systems. *Proceedings XXI Spanish Congress of Health Economics*, Oviedo, June 6-8.
- 2000 Karantininis, K, P J Agrell and K Oustapassis. A Chain Oligopoly Model of Merger Strategies and Competition. *Proceedings of 4<sup>th</sup> International Conference on Chain Management in Agribusiness and the Food Industry*, Wageningen, NL.

- 1998 Agrell, P J. and B M West. A Review of Incentive Efficiency in Productivity Analysis, *Preprints 9th Int'l Working Seminar on Production Economics*, Igls, Austria. Vol 2, pp 405-433.
- 1998 Agrell, P J. Efficiency Measurement and Benchmarking of Nordic Electricity Distributors. Pre-prints of *Nordiska Specialistmötet 1998*, Stockholm.

### SELECTED WORKING PAPERS

- 2007 Agrell, P J, P Bogetoft., R Halbersma and M Mikkers *Yardstick competition for multi-product hospitals: an analysis fo the proposed Dutch yardstick mechanism*. Research Paper 2007/01. NZa (Dutch Healthcare Authority).
- 2006 Agrell, P J and P Bogetoft. *Economic Regulation of DER: the Norm Model Approach*. WP EU-DEEP, FEEM.
- 2006 Bogetoft P and Agrell, P J. *Network investments, network regulation and DSO- DER interaction*. WP EU-DEEP, FEEM.
- 2003 Agrell, P J, Lindroth, R and A Norrman. *Risks and Coordination Mechanisms in Telecom Supply Chains*. IAG Working Paper 80. UCL
- 2003 Agrell, P J and P Bogetoft. *Economic and Environmental Efficiency of District Heating Plants*. IAG Working Paper 79. UCL
- 2002 Agrell, P J and P Bogetoft. *Common Weights under DEA Control*.
- 2002 Agrell, P J and P Bogetoft. *Model Development and Implementation Strategies for DEA Yardsticks*.
- 2001 Agrell, P J and P Bogetoft. *Issues and Challenges in Regulation Economics*, Working Paper WP 2001/11, KVL.
- 2001 Agrell, P J and P Bogetoft. Economische regulering vraagstukken en uitdagingen, *Actualiteiten Mededingingsrecht*, Den Haag, Oct 2001, pp. 197-203. (in Dutch).
- 2001 Agrell, P J and K Karantininis. *Incentives, Aggression and Cooperative Governance*. 78<sup>th</sup> EAAE Seminar/NJF Seminar 30 "Economics of Contracts in Agriculture and the Supply Chain", Copenhagen, June.
- 2001 Agrell, P J and P Bogetoft. DEA-based Regulation in Health Care Systems. *Proceedings XXI Spanish Congress of Health Economics*, Oviedo, June 6-8.
- 2000 Agrell, P J, P Bogetoft and J Tind. *Multi-Period DEA Incentive Regulation in Electricity Distribution*. Discussion Paper 2000-13, Centre for Industrial Economics, University of Copenhagen.
- 1999 Agrell, P J and K Karantininis. *Cooperatives' Merger Strategies : The MD Foods – Kløver Case*. Working Paper 1999/2, KVL.
- 1997 Agrell, P J and R. E. Steuer *Faculty Performance Review Using Data Envelopment Analysis*, Working Paper WP-246, Department of Production Economics, Linköping Inst of Tech. Invited to EURO/INFORMS, Barcelona, July 1997.
- 1994 Agrell, P J, A. Molinder, J. Wikner, and R. W. Grubbström. *SCA Productivity Study 1990-1993: Final Report*, Research Report RR-127, Department of Production Economics, Linköping Inst of Tech.
- 1994 Agrell P J. *Multidimensional Productivity Analysis*, Working Paper WP-202, Department of Production Economics, Linköping Inst of Tech.

## CONFERENCE PARTICIPATION

Participation at over 30 international scientific conferences since 1992, presenting papers, chairing sessions, acting as discussant for other papers and giving plenary talks. Invited session organizer of the *DEA Regulation* session at the international conference on operations research and management science (INFORMS 2001), USA. Principal organizer of the EURO DDM IX workshop on decentralized decision making in 2004 and the European Workshop of Productivity and Efficiency Analysis in 2005 (250 participants), both at UCL.

## INVITED LECTURES

Invited to give talks at the Florence School of Regulation (European University Institute), International Institute for Applied Systems Analysis, University of Georgia, Université Catholique de Louvain, Technical University of Denmark, University of Copenhagen, Copenhagen Business School, Odense University, Royal Veterinary and Agricultural University, Helsinki University of Technology, Helsinki School of Economics, Linköping University, Swedish University of Agricultural Sciences, University of Lille, University of Liège, CERAS-ENPC, Paris, University Carlos III, Madrid, Universitat Autònoma de Barcelona, University of Oviedo, ETH Zurich, CEPA, .

## THESIS SUPERVISION

Supervision of three doctoral students, and numerous B.A. and M.Sc. theses currently at the Université Catholique de Louvain and earlier at Linköping University, Royal Agricultural University (DK) and University of Copenhagen.

## TEACHING EXPERIENCE

Productivity Theory, Production and Supply Chain Management. Taught at undergraduate, graduate, doctoral and executive MBA levels at five universities in Denmark, Belgium, France, Lithuania, Russia and Sweden. Recipient of and nominee for teaching prizes.

## ACADEMIC SERVICE

President of the doctoral commission at the Louvain School of Management at UCL, member of reviewboards for research programmes, doctoral examination committees, external reviewboards for promotion and tenure, serving as faculty opponent at defenses in Belgium, Denmark, Finland, France, the Netherlands and Sweden.

## REFeree ASSIGNMENTS

Associate Editor of the *International Journal of Production Economics*. Regular reviewer *Management Science*, *Annals of Operations Research*, *European Operations Research*, *Omega*, *Journal of Multi-Criteria Decision Analysis*, *Journal of Productivity Analysis*, *International Journal of Technology Management*, *International Journal of Production Planning and Control*, and others.