

CORE Newsletter



Edito by Erik Schokkaert

CORE Research Director

This is the first CORE Newsletter. On the next page, Jacques Drèze, Jean Gabszewicz and Henry Tulkens explain why Newsletters have become one of the main channels of dissemination of information about research, and why it was only timely for CORE to follow suit. Yet, communicating about research output is not the only purpose of this Newsletter.

Since the creation of CORE in 1966, it has always been a place where networking is essential. CORE has had close contacts with other Belgian universities and in recent years this has led to the collaboration with ECARES (Brussels) under the label of ECORE. CORE is a pole of the new UCL Institute IMMAQ (Institute of Multidisciplinary Research for Quantitative Modelling and Analysis). CORE has played an important role in the creation of the European Doctoral Program in Quantitative Economics (with LSE, Bonn and later also Paris, Barcelona, Florence and Tel-Aviv). CORE Members have been instrumental in the creation of the European Economic Association.

Even more important than this institutional networking, however, is networking between individuals. CORE has always been a lively place with many visitors from all over the world. The number and

quality of these visitors have played an important role in building up CORE's reputation. At the very start (in 1968) Gérard Debreu, Truman Bewley, Herbert Dierker, Birgit Grodal, David Schmeidler and Karl Vind spent a year at CORE – and Anton Barten, Peter Schönfeld and Werner Hildenbrand were regular members. Since 1968 this regular stream of high quality long-term visitors has never dried up. In addition, Research Associates and Associate Fellows (the latter mostly affiliated with neighbouring universities such as Brussels, Leuven, Liège and Namur, but also Lille or Maastricht) are regularly present at CORE. Each year a new cohort of post-doctoral research fellows arrives at CORE for a stay of a couple of years. And the number of short-term visitors (coming for a few days or a few weeks) is impressive.

As a result, many economic researchers all over the world have good memories of their stay here. These former visitors and CORE members are our main target readership. If you received this CORE Newsletter, it is very likely that you have spent some time at CORE in the past. We want to keep contact. That is why you will also find a section with "Friendly News" in this Newsletter. All suggestions and comments are very welcome.

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Why a CORE Newsletter?

In CORE's early days, from the late sixties through the eighties, information was still circulating on paper and through the mail. Paper copies of Discussion Papers and Reprints were sent to other research centers, on a reciprocity basis, for consultation in libraries. Mail orders for single copies were graciously filled, and a few privileged individuals received the full collection. Annual reports were handled in the same way; they contained extensive information about publications, seminars and sundry scientific events. Announcements of seminars and related activities were widely distributed by mail to scientists in the vicinity.

This pattern of information dissemination started in Europe in the late fifties with the creation of the Econometric Institute in Rotterdam by Jan Tinbergen and Hans Theil – who were importing the tradition created in the US by the Cowles Commission (later Foundation). It was an entirely new development for Europe, where universities still operated along traditional lines centered on teaching, with little attention to active dissemination of research activities and publications.

After the Econometric Institute, then CORE ten years later, a number of comparable research centers emerged at European universities, including for instance Bonn, Tilburg or Aix-Marseille, then Toulouse, Paris, Barcelona and several more. It became a lasting European landmark that research centers play a major role in research, in contrast with the US where university departments keep the center stage – with a few notable exceptions like Cowles or the NBER.

The development of the Internet brought about a major shift in the pattern of information dissemination. Discussion Papers and Reprints are now widely accessible on line, seldom on paper. The main support for disseminating information about research activities and publications is a Newsletter sent periodically by internet to large sets of institutional as well as individual destinaries. Clearly, that development is here to stay. It is only timely for CORE to follow suit.*

The Newsletters of European research centers display some variation as to contents and presentation; interested readers may convince themselves by sampling the Newsletters of their favoured centers. Again, this diversity is welcome. And it must be realised that our current pattern of information dissemination remains open to improvement. After all, internet communication is still relatively young, and experience will no doubt suggest improvements.

If we may express a personal wish, as receivers and users of several Newsletters or lists of new Discussion Papers (including NBER and CEPR): we would love being somehow spared the chore of browsing over extensive lists of papers where items of interest to us are buried among a majority of items pertaining to fields that we do not follow. We would, for instance, value the possibility of communicating to NBER or CEPR a short list of JEL Classification categories, with the request that we receive titles and abstracts only for papers falling under these categories. Another related service which would be most appreciated is a monthly release by international or specialized economic associations (like IEA, EEA or IIFP) of an integrated list of new Discussion Papers, also sorted by JEL Classification numbers. Modern data processing makes it possible to offer that kind of service at basically no cost, once a classification system is agreed upon. (Of course, regarding CORE DP's or Reprints, the JEL Classification does not cover OR and would need extension to a broader integrated system.)

We note with interest that a first, modest step in that direction is embedded in CORE's Newsletter: DP's and Reprints are listed separately for "Econometrics", "Economic Theory" and "Operations Research" (at the risk of frowns from applied economists or game theorists...). A modest step, indeed, but a clear signal to others that broader agreement on an integrated classification system is part of taking full advantage of the new technology.

Let us hope that the Newsletters from European research centers will compete towards growing efficiency from the viewpoint of their readers!

Jacques Drèze, Jean Gabszewicz, Henry Tulkens,
initial members of CORE.

August 2010.

* Actually, CORE did issue a form of newsletter as early as 1968 under the label "COREDIAl". Of course, it existed on paper only; it was meant primarily for internal circulation. Beyond the standard headings of "events, people, publications", the COREDIAl was a ferment of social life by including extensive family news, information about cultural events in Belgium, about social activities organised by CORE members, and even such sundry items as the recipes of dishes primed at the annual CORE dinner party... Perhaps the "Friendly News" section of the new CORE Newsletter aims at being a modest heir to that tradition?

CORE Lecture Series

Forthcoming CORE Lecture Series: Matching, Sorting and Screening by Jan Eeckhout.

Louvain-la-Neuve, December 8-10, 2010



From Wednesday, December 8 to Friday, December 10, there will be a new series of CORE Lectures. The lecturer is Jan Eeckhout, currently ICREA Research Professor at the Department of Economics of

UPF Barcelona and Full Professor at the University of Pennsylvania. Jan Eeckhout has published recently in almost all the top journals of the profession (*Econometrica*, *American Economic Review*, *Review of Economic Studies*, *Journal of Economic Theory*, *Journal of the European Economic Association*).

His topic will be “Matching, sorting and screening”. The analysis of sorting focuses on the patterns of trade (who trades with whom) and specifies the conditions under which those patterns arise. Sorting of workers to jobs for example matters for the efficient production of output in the economy. If there are strong complementarities between workers and jobs, the exact allocation has large efficiency implications. In contrast, when complementarities are nearly absent, not much output is lost from the random allocation of workers to jobs. This is important for policy, for example whether we want to design an unemployment insurance program that provides

incentives for workers to look for the “right” job instead of accepting the first offer. Complementarities and sorting also have profound implications for wage inequality across differently skilled workers.

In this lecture series, Jan Eeckhout will elaborate on the most recent developments at the research frontier on the issue of sorting. He distinguishes between centralized price setting (hedonic pricing) which adequately captures environments such as the stock market, and other environments where trading is decentralized and frictions are non-negligible such as the housing or labor markets. In the labor market for example, unemployment is a natural feature, and in the housing market several months delay in finding a buyer are usual. Decentralized trading is modeled as random and directed search as well as through competing mechanism design. The focus is on the trade off between productive efficiency and the role of sorting for minimizing trading frictions, and the role of ex ante sorting versus ex post screening will be highlighted. One outstanding question where this theoretical work has proven crucial is the debate on the identification from price data whether or not there are complementarities and how big they are. Finally, the role of sorting is also addressed in an environment of learning: partners obtain information about their types while being matched.



Past CORE Lecture Series. Stochastic programming: Modelling and Theory by Alexander Shapiro

Louvain-la-Neuve, June 21-25, 2010

Last edition of the CORE Lecture Series was held on June 21-25, 2010. Alexander Shapiro gave a series of lectures entitled “Stochastic programming : Modeling and Theory”. It was attended by more than 40 people, among them students and researchers from more than 10 different universities. This series was composed of five lectures:

- Introduction and examples of stochastic programming modeling;
- Two and multistage stochastic programming;
- Statistical inference of Monte Carlo sampling approach;
- Risk averse stochastic programming;
- Miscellaneous.

Alexander Shapiro is a professor at the School of Industrial and Systems Engineering at the Georgia Institute of Technology in the United States. He is a leading researcher

in stochastic programming and other fields. He is author of three books, including *Lectures on Stochastic Programming: Modeling and Theory* (2009, with Dentcheva and Ruszczyński).



Past Scientific Events...

A Journey through Microeconomics. A tribute to Jacques Thisse.

Louvain-la-Neuve, May 11-12, 2010

2010 is the year of awards and celebrations for Jacques Thisse. After having received two titles of Doctor honoris causa from Université Paris-Panthéon-Assas and from Ecole Normale Supérieure of Cachan, the conference “A journey through microeconomics” was organized in his honour on May 11-12 at Aula Magna. It was the occasion to celebrate and

to thank Jacques, after 35 years of research and teaching at UCL and at CORE (with some excursions abroad).

Those two days were properly a journey through the different topics that stimulated Jacques all along these years, from urban economics to international trade, from oligopolistic and monopolistic competition to the analysis of product differentiation. He brought critical contributions to all of them through more than 200 publications in the most advanced scientific journals. Doing so, he participated actively to the international reputation of CORE and UCL.

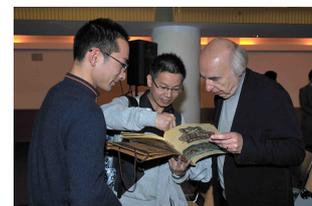
For Jacques, research is not a lonesome activity but a collective adventure, so that many of the participants were some of his most famous co-authors from all over the world, like Simon Anderson and James Friedman from the

US or Masa Fujita from Japan. The pictures taken by Masa Fujita and the anecdotes told by Jean Gabszewicz have also shown that work and research rhyme for Jacques with laugh and friendship. Finally, Jacques has not “only” written books and articles over the past 35 years, he has also inspired and shaped many of the most active researchers today in urban economics, economic geography and international trade. Kristian Behrens, Gilles Duranton, Giordano Mion, Gianmarco Ottaviano, Yves Zenou, among others, all emphasized the extreme generosity of Jacques in sharing his knowledge and experience with young researchers.

Now, Jacques retires from teaching, but not from research. He will become an emeritus professor at UCL and we really hope that between two trips to visit his co-authors in Brazil, Russia, UK or China, he will keep on participating and fueling the scientific life at CORE!



Jim Friedman & Jacques Thisse



Xiwei Zhu, Huasheng Song & Jacques Thisse



The conference in honour of Jacques Thisse was also the occasion to award Elhanan Helpman, professor at Harvard University, a doctorate honoris causa from the new Research Institute IMMAQ. Elhanan Helpman is one of the most prominent researchers in international

trade of the last decades. In particular, he greatly contributed to the comprehension of the links between innovation, trade and growth, to the analysis of the formation of trade policies, and recently to the investigation of the interactions between trade, outsourcing and labour market dynamics.



Claude d'Aspremont, Bruno Delvaux, Elhanan Helpman & Jacques Thisse

Elhanan Helpman & Jacques Thisse



Past Scientific Events

2nd Valencia-Louvain Workshop on Game Theory and Economic Behavior.

Louvain-la-Neuve, May 28, 2010

The 2nd Valencia-Louvain Workshop on Game Theory and Economic Behavior was held on May 28 in Louvain-la-Neuve and was organized by CORE (Université catholique de Louvain) and CEREC (Facultés universitaires Saint-Louis) in cooperation with ERI-CES (University of Valencia). The Valencia-Louvain workshops take place once a year and alternate between Brussels, Louvain-la-Neuve and Valencia. The objective of the workshops is to present the latest advances in the field of game theory and its applications, and to develop collaborations and exchanges between members of CORE, CEREC and ERI-CES. The aim of the 2nd workshop was to illustrate how game-theoretical tools and concepts can be used to analyze the economic situations where network structures play an important role. For

instance, networks of relationships underlie the trade and exchange of goods in non-centralized markets, the provision of mutual insurance in developing countries, research and development and collusive alliances among corporations, and international alliances and trading agreements. The contributions were mainly theoretical while simulation and empirical studies were also presented. Invited speakers were Francis Bloch (Ecole Polytechnique), Vicente Calabuig (ERI-CES), Sanjeev Goyal (Cambridge University), Dunia Lopez-Pintado (Universidad Pablo de Olavide), Ana Mauleon (CEREC and CORE), Santiago Rubio (ERI-CES), Jose Sempere-Monerris (ERI-CES) and Fernando Vega-Redondo (EUI, Florence).

Recent Advances in Energy Economics. A Conference in Honour of Yves Smeers.

Louvain-la-Neuve, June 17-18, 2010



On June 17 and 18, CORE organized a conference in honour of Yves Smeers.

Those two days gathered academics and practitioners to present recent advances in energy

economics. Jean-Marie Glachant, Benjamin Hobbes, William Hogan, Kurt Jörnsten, Fred Murphy, Jean-Pierre Ponsard, Stef Proost, Danny Ralph, Golbon Zakeri among others came to pay tribute to Yves Smeers' work.

For the last thirty years at CORE, Yves Smeers has worked on energy economics bringing together different domains such as operations research, economic theory and econometrics. Yves Smeers' main work is in building models to analyze the prospects for and the properties of

unbundled energy markets. In his approach the beauty of the retained models counts less than their ability to provide positive and normative insights. The contributions include models for investment and operational planning, but also models investigating contractual and regulatory constraints in the energy markets for gas and electricity. These aspects of Yves Smeers' work lead him to a close and successful collaboration with practitioners: public authorities, the European Commission and private groups like GDF-Suez. He has succeeded in maintaining a careful balance between applied and more methodological projects with his applied work leading to new theoretical results. For us at CORE, he is a living example on how academics can make a contribution to society.

By becoming an emeritus professor, Yves Smeers will retire from teaching but not from research. His passion for his work ensures us that he will continue to share his time with us at CORE.

New CORE President : Luc Bauwens

Luc Bauwens got a Ph. D. degree in economics from the Université catholique de Louvain (UCL), in 1983. Since 1991, he is professor of economics at UCL but his first job ever was as research assistant at CORE in 1976, when CORE was not yet located in Louvain-La-Neuve. Between 1983 and 1991 he has been abroad, in particular at the World Bank and at GREQE in Marseille. He has served as chairman of the Department of Economics (2000-2003), and as research director of CORE (2006-2009).

His scientific interests are in econometrics, with contributions in time series and financial econometrics using Bayesian inference. He is member of the board of associate editors of the Journal of Applied Econometrics and associate editor of the Journal of Financial Econometrics.

Luc Bauwens is elected President for 3 years.



He joined us

Mathieu Van Vyve

Mathieu Van Vyve started as professor at CORE and LSM in September 2009, after four years working in the private sector. His field of expertise is developing provably good models and algorithms for optimization or decision problems involving discrete choices. He has applied these results to efficiently solve problems in production planning and in electricity market auctions. He teaches Operations Research at the Louvain School of Management.

By training he is an engineer in applied mathematics and he has a master in philosophy, both from UCL. He got his PhD in Operations Research at CORE in 2003 under the supervision of Yves Pochet and Laurence Wolsey. Mathieu is an avid mountaineer (rock or ice climbing, ski touring) and sailor

but recently discovered a passion for do-it-yourself with the construction of a wooden low energy house and the recent birth of his two children Chloé and Robin (19 and 2 months respectively). Last but not least, he met his wife Marion eight years ago...at CORE!



Our new research associates

Francis Bloch (Ecole Polytechnique) and **Dunia López-Pintado** (Universidad Pablo de Olavide) join us as Research Associates from September 2010 till August 2011. They will visit us regularly during this forthcoming academic year.

Our long-term visitors 2010-11



Andrés Carvajal
Academic year 2010-11

Andrés Carvajal is an associate professor of economics at the University of Warwick, in England. He obtained his Ph.D. in economics from Brown University, and completed a Post-Doctoral Fellowship at the Cowles Foundation for Research in Economics, at Yale University, before joining Warwick. Carvajal works in microeconomic theory, with emphasis in equilibrium analysis. His main research agenda has been on the testable implications of models of individually-rational social choice, for instance in markets or games. Recently, he has emphasized the applications of these results to problems of imperfect competition, in an attempt to derive non-parametric tests of different prominent models of industrial organization. He has also worked on the welfare effects of the absence of insurance opportunities for personal risks, and on the neutrality of different financial institutional arrangements, from the point of view of real economic outcomes.



Aitor Calo-Blanco
Academic year 2010-11

Aitor Calo-Blanco has graduated in economics from the University of La Coruña (Spain) and holds a Ph.D. from the University of Alicante. He has also been a visiting student at Queen Mary University of London. Before his stay at CORE, he was a visiting professor at the University Pablo de Olavide, Sevilla. He focuses his research on the theory of justice and redistribution. He has specialised in the fields of equality of opportunity, economics of education, and public economics.



Dimitri Paolini
Academic year 2010-11

Since 2005, Dimitri Paolini has been working as associate professor at Università degli Studi di Sassari. He has received his Ph.D. in economics at the Université Catholique de Louvain in 2001, and he previously (from 2002 to 2005) has held an assistant professorship at the Università degli Studi "G. D'Annunzio" of Chieti-Pescara (Italy), as well as a post-doc position (from 2001 to 2002) at Université de Liège (Belgium). His academic interests focus on applied microeconomics, more specifically, labour economics, education economics and I.O.



Jeroen Rombouts
Academic year 2010-11

Jeroen Rombouts has received his PhD in 2004 at CORE. He is Associate Professor with HEC Montréal's Institute of Applied Economics and Researcher at the Centre interuniversitaire de recherche en analyse des organisations (CIRANO). He is also a regular member of the Centre interuniversitaire sur le risque, les politiques économiques et l'emploi (CIRPÉE) and Elected Member of the International Statistical Institute (ISI). His main research interest is financial econometrics with advanced parametric and nonparametric methods. He uses both classical as well as Bayesian inference techniques. Currently, his applications are concentrated on conditional independence testing, option pricing using discrete time univariate and multivariate models, selection of multivariate GARCH models, usefulness of change-point models in forecasting macroeconomic variables, and the development of change-point models for multivariate financial time series.



Fred Schroyen
Academic year 2010-11

Fred Schroyen studied business economics at Antwerp University. After a Master in Economics at KULeuven (1985) and LSE (1990) he took a PhD in Economics at KULeuven (1994). With a Marie-Curie post doc fellowship he moved in 1996 to the Norwegian School of Economics in Bergen (Norway), where he has been a full professor at the Department of Economics since 2005. He has been working on problems in public economics (optimal taxation, tax evasion, welfare schemes, merit goods), and more recently on insurance economics (contracts), attitudes towards risk taking, and health economics (queueing models). He likes to use his spare time for mountain hiking, fly fishing and bicycling.



Olivier Tercieux
Academic year 2010-11

Since 2005, Olivier Tercieux is a CNRS researcher and associate professor at Paris School of Economics. He has received his Ph.D. in economics from the University of Paris 1 in 2004, and has held previously an assistant professor position at Tilburg University as well as a post-doc position in Louvain-la-Neuve. His academic interests are in game theory and range from its theoretical aspects, like foundations of solution concepts, to its applications in mechanism design, like auctions or school choice. More specifically, his research has focused on evolutionary games, equilibrium selection through incomplete information and mechanism design.

Post-doc fellows 2010-13

Chiara Canta is finishing her Ph.D. at the Toulouse School of Economics, under the direction of Helmuth Cremer. Her general research interest is Applied Microeconomics and Regulation Theory, and more specifically health economics. She has been interested in the regulation of the health care sector, with particular regard to the optimal provision of quality. She also studies why, in universal health systems, the government-payer contracts with both public and privately owned providers. Another line of her research is empirical and focuses on spousal peer effects on individual smoking decisions and on the correlation between risky behaviors and health care consumption, for a given health status. At CORE she will work mainly on the organization of health care markets.



Chiara Canta

Kwanghun Chung had spent most of his life in Daejeon, Korea, until he began majoring in Industrial Engineering at Seoul National University (SNU) in 1993. After he worked as a software engineer in the Research and Development Center at Samsung SDS from 1999 to 2004, he joined the School of Industrial Engineering at Purdue University as a Ph.D. student in 2004. His doctoral research focuses on developing and improving solution methodologies for Mixed-Integer Nonlinear Programs (MINLP). In 2008, he transferred to the Department of Industrial and Systems Engineering at the University of Florida (UF) following his advisor, Dr. Richard. He will receive a Doctor of Philosophy degree in the area of Operations Research from UF in August 2010. During his stay at CORE, he would like to extend his current research in the area of convexification techniques for non-convex MINLPs. He plans to continue investigating how to develop tight convex relaxations of general MINLPs and generate strong valid inequalities for them using disjunctive programming and lifting tools.



Kwanghun Chung

Dimitris Korobilis holds a BSc in Economics from Athens University of Economics & Business, an MSc in Econometrics and Management Science from Erasmus Universiteit Rotterdam, and a PhD in Economics from University of Strathclyde, Glasgow. He is a fellow of the Euro-Area Business Cycle Network (EABCN), a fellow of the Rimini Centre of Economic Analysis, and a visiting fellow (summer 2011) of the Reserve Bank of South Africa. He has taught short courses in Bayesian time-series in the Deutsche Bundesbank and the European Central Bank (ECB). The research that Dimitri will be pursuing at CORE is related to macroeconomic stability and to measuring the effects of monetary policy during periods of crises. He is interested in modern econometric techniques which enable Central Banks to efficiently process large amounts of information. For that reason he is involved in developing econometric methods which summarize large data-sets (of the order of hundred variables), including factor models, dynamic model averaging, and Bayesian variable selection.



Dimitris Korobilis

Chantal Marlats has completed her PhD at Paris School of Economics-Paris 1 University in repeated games theory under the supervision of Jean Marc Tallon. More precisely, she studied stochastic games and bandit problems with communication. She has been both a teaching assistant (Moniteur) and a lecturer (ATER) at the University Paris 1. Her current interests are strategic experimentation and networks. During her stay at CORE she will analyze network formation under incomplete information.



Chantal Marlats

Adrien Vigier recently graduated with an economics PhD from Cambridge, after studying mathematics and physics as an undergraduate in Paris. His main research interest is in the theory of networks in economics. Most of his research to date has focused on the study of contagion in networks, and how to protect networks from possible resulting threats. Applications of this work range from epidemiology to computer science.



Adrien Vigier



CORE is offering research fellowships in economics, operations research and econometrics, starting September 1st, 2011. **How to apply:** Applications (Personal data, CV, degrees, current position, research interests with sample papers and name of 3 referees) must be filled through the [website](#), BEFORE November 30, 2010. An automatic mail will be sent to your 3 referees asking them to send a reference letter through the website.

They visited us for a few days or a few weeks between January and August 2010...

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| 🌐 Zeynep Aksin, Koç University, Istanbul | 🌐 Dunia Lopez Pintado, Universidad Pablo de Olavide |
| 🌐 Jorge Amaya, Universidad de Chile | 🌐 Johan Lundin, Lund University |
| 🌐 Daniel Bienstock, Columbia University | 🌐 Guy Meunier, Ecole Polytechnique |
| 🌐 Noël Bonneuil, EHES | 🌐 Kaz Miyagiwa, Emory University & University of Osaka |
| 🌐 Eloisa Campioni, Università degli Studi di Roma Tor Vergata | 🌐 Juan Moreno-Tertero, Universidad Pablo Olavide |
| 🌐 Parkash Chander, National University of Singapore | 🌐 Fred Murphy, Temple University |
| 🌐 Marco Di Summa, University of Turin | 🌐 Georgia Oggioni, Università degli studi di Brescia |
| 🌐 Theo Driessen, Twente Universiteit | 🌐 Mathieu Parenti, Université Paris 1 |
| 🌐 Elina Eguiazarova | 🌐 Susana Peralta, Universidade de Lisboa |
| 🌐 Simon Fan, Lingnan University | 🌐 Fabien Prieur, Université de Savoie |
| 🌐 Marc Fleurbaey, Université Paris Descartes | 🌐 Guillaume Roels, University of California at Los Angeles |
| 🌐 Gael Giraud, Paris School of Economics | 🌐 Margarita Samartin, Universidad Carlos III de Madrid |
| 🌐 Johana Goertz, University of Guelph | 🌐 Frederico Stefano, Banco Popolare di Sondrio, Brescia |
| 🌐 Jean-Jacques Herings, Maastricht University | 🌐 Rodney Strachan, The University of Queensland |
| 🌐 Natalia Hritonenko, Prairie View A&M University | 🌐 Julien Thénié, Ordecys |
| 🌐 Milojica Jacimovic, University of Montenegro | 🌐 Sébastien Van Belleghem, Toulouse School of Economics |
| 🌐 Pierre-André Jouvét, Université Paris X | 🌐 Yuri Yatsenko, Houston Baptist University |
| 🌐 Sergey Kokovin, Novosibirsk State University | 🌐 Ouidad Yousfi, ESSEC Tunis & EconomiX, Paris |
| 🌐 Jacek Krawczyk, Victoria University of Wellington | 🌐 Golbon Zakeri, The University of Auckland |
| 🌐 Omar Licandro, University of Firenze | 🌐 Evgeny Zhelobodko, Novosibirsk State University |

JOB MARKET FOLLOW-UP

Efthymios Athanasiou.

PhD student at CORE in social choice from 2005 to 2009 (supervisor: François Maniquet). Herbert Simon Fellow in Scientific Philosophy at the Department of Philosophy of Carnegie Mellon University (Pittsburgh), since September 2009.

Florian Mayneris.

Post-doctoral fellow at CORE in economic geography and international trade from November 2009 to August 2010. Assistant professor at the Department of Economics at Université catholique de Louvain since September 2010.

Jean-François Maystadt.

PhD student at CORE in development economics and economic geography from 2006 to 2010 (supervisor: Jacques Thisse). Research fellow International Food Policy Research Institute (IFPRI) at Washington DC since September 2010.

Carlo Rosa.

Post-doctoral fellow at CORE in econometrics (supervisor: Luc Bauwens) from September 2008 to August 2009. Assistant professor of finance at University of Essex, UK since September 2009.

Alfonso Valdesogo.

PhD student at CORE in econometrics from 2005 to 2009 (supervisor: Luc Bauwens). Postdoc at the University of Luxembourg since November 2009.

Giacomo Valletta.

PhD student at CORE in social choice from 2006 to 2009 (supervisor: François Maniquet). Assistant professor at the School of Business and Economics of the University of Maastricht since September 2009.

Stéphane Zuber.

Post-doctoral fellow at CORE in social choice from November 2008. Will join the French National Centre for Scientific Research (CNRS) and will be affiliated to CERSES-University Paris-Descartes.

Prizes & Awards...

Francqui Chair 2009-2010



François Maniquet was awarded with the Chair Francqui 2009-2010 at Facultés universitaires Saint-Louis in Brussels (FUSL). The inaugural lecture was held on March 8, 2010 on "Le rapport Stiglitz signe-t-il l'arrêt de mort de l'économie du bien-être?"

Francqui Prize 2010

For his research on social choice and welfare economics, François Maniquet was awarded with the 2010 Francqui Prize. This is the most important scientific award in Belgium: it is assigned by the Francqui foundation to a young researcher (below 50) that already contributed significantly to science. Its goal is to boost further advances of research. The award-giving ceremony was held on June 9, 2010 at the "Palais des Académies" in Brussels.

To summarize the contributions to economics of François we should go through the main research questions he addresses. On one side he focuses on the definition of justice in specific economic settings (public goods, resource allocations, production economies, in which agents have different characteristics); on the other hand, he looks at the institutions necessary to implement economic justice. He also contributed to the literature in voting theory.

Apart from his research articles (published among others in *Econometrica*, *Review of Economic Studies*, *Social Choice and Welfare*, *Journal of Mathematical Economics*, *Journal of Economic Theory*, *Games and Economic Behavior*), he has written a new book "A Theory of Fairness and Social Welfare" (with Marc Fleurbaey) that is forthcoming at Cambridge University Press.

CORE members are not new to this prize: Pierre Pestieau was awarded the Francqui Prize in 1989, Claude d'Aspremont-Lynden in 1995 and Mathias Dewatripont in 1998.



DOCTOR HONORIS CAUSA

On January 29, 2010, Jacques Thisse received the title of Doctor honoris causa from Université Paris-Panthéon-Assas for the whole of his work. On April 9, 2010, he received a second title of Doctor honoris causa from Ecole Normale Supérieure de Cachan for his research in industrial economics.



Pierre van Moerbeke, Mark Eyskens, H.R.H. Prince Philippe, Duke of Brabant, Prince of Belgium, Comte Frédéric Francqui and François Maniquet.

Prizes & Awards

Von Neumann Prize

Yurii Nesterov has received the John von Neumann Theory Prize. The John von Neumann Theory Prize is awarded annually by INFORMS, the Institute for Operations Research and the Management Sciences, to a scholar who has made fundamental, sustained contributions to theory in operations research and the management sciences. The award is given each year at the National Meeting of INFORMS in the USA if there is a suitable recipient. The first recipient of this very prestigious prize was George Dantzig. Excerpts from the citation for the prize read :

"Yurii Nesterov is the world's leading authority on the efficiency of algorithms for continuous optimization. [...] In recent work he has obtained improved results on the global convergence of a regularized Newton's method for unconstrained optimization and established a theory of smoothing that allows for the applicability of optimal first-order methods to large-scale problems with nondifferentiable objectives. In 2000, Nesterov received the Dantzig Prize, jointly awarded by the Mathematical Programming Society and the Society for Industrial and Applied Mathematics, in recognition of his contributions to the theory of convex optimization."



D. Kleinmunnz (President of INFORMS),
Y. Ye (Stanford, price recipient),
Y. Nesterov (CORE, price recipient)
and G. Gallego (Committee Chair)

THESES

On June 8, 2010 - **Giacomo Valletta**
Three essays on social choice and public economics
Docteur en Sciences Economiques et de Gestion,
Université catholique de Louvain under the
supervision of François Maniquet.
Current position: Assistant professor at Maastricht
University.

On August 23, 2010 - **Jean-François
Maystadt**
Conflict and forced migration
Docteur en Sciences Economiques et de Gestion,
Université catholique de Louvain under the
supervision of Jacques Thisse.
Position (from september 2010): Research Fellow
at the International Food Policy Research Institute
(IFPRI) in Washington DC.

On September 2, 2010 - **Jean-Christophe
van den Schrieck**
*Multi-skill queueing models for call centers: approximations
and performance optimization.*
Docteur en Sciences Economiques et de Gestion,
Université catholique de Louvain under the
supervision of Philippe Chevalier.
Position (from October 2010): Researcher at
Université catholique de Louvain (CORE).



Publications...

Reprints

Economic Theory

- 2179 **Kayi, C. and E. Ramaekers.** Characterizations of Pareto-efficient, fair, and strategy-proof allocation rules in queuing problems. *Games and Economic Behavior* 68, 220-232, 2010.
- 2181 **Del Rey, E. and M. Racionero.** Financing schemes for higher education. *European Journal of Political Economy* 26(1), 104-113, 2010.
- 2182 **Picard, P. and T. Tabuchi.** Self-organized agglomérations and transport costs. *Economic Theory* 42 (3), 565-589, 2010.
- 2183 **Congar, R. and F. Maniquet.** A trichotomy of attitudes for decision-making under complete ignorance. *Mathematical Social Sciences* 59, 15-25, 2010.
- 2184 **Maniquet, F. and Y. Sprumont.** Sharing the cost of a public good: an incentive-constrained axiomatic approach. *Games and Economic Behavior* 68, 275-302, 2010.
- 2189 **Verhetsel, A., I. Thomas and M. Beelen.** Commuting in Belgian metropolitan areas. The power of the Alonso-Muth model. *Journal of Transport and Land Use* 2(3/4), 109-131, 2010.
- 2194 **Thisse, J.** Toward a unified theory of economic geography and urban economics. *Journal of Regional Science* 50(1), 281-296, 2010.
- 2196 **Van Beveren, I. and H. Vandenbussche.** Product and process innovation and firms' decision to export. *Journal of Economic Policy Reform* 13(1), 3-24, 2010.
- 2197 **Schokkaert, E., T. Van Ourti, D. De Graeve, A. Lecluyse and C. Van de Voorde.** Supplemental health insurance and equality of access in Belgium. *Health Economics* 19(4), 377-395, 2010.
- 2199 **Jousten, A., M. Lefebvre, S. Perelman and P. Pestieau.** The effects of early retirement on youth unemployment: the case of Belgium. In J. Gruber and D.A. Wise (eds.), *Social Security Programs and Retirement Around the World. The Relationship to Youth Employment*. Chicago and London, The University of Chicago Press, 47-76, 2010.
- 2200 **Mauleon, A., H. Song and V. Vannetelbosch.** Networks of free trade agreements among heterogeneous countries. *Journal of Public Economic Theory* 12(3), 471-500, 2010.
- 2201 **Gautier, A. and F. Heider.** The benefit and cost of winner-picking: redistribution versus incentives. *Journal of Institutional and Theoretical Economics* 165(4), 622-649, 2010.
- 2202 **Amerighi, O. and S. Peralta.** The proximity-concentration trade-off with profit shifting. *Journal of Urban Economics* 68(1), 90-101, 2010.
- 2204 **Boucekkine, R. and J-P. Laffarge.** On the distributional consequences of epidemics. *Journal of Economic Dynamics & Control* 34(2), 231-245, 2010.
- 2207 **Denuit, M., L. Eeckhoudt and B. Rey.** Some consequences of correlation aversion in decision science. *Annals of Operations Research* 176(1), 259-269, 2010.
- 2208 **Chiu, W.H. and L. Eeckhoudt.** The effects of stochastic wages and non-labor income on labor supply: update and extensions. *Journal of Economics* 100(1), 69-83, 2010.
- 2210 **Denuit, M. and L. Eeckhoudt.** A general index of absolute risk attitude. *Management Science* 56 (4), 712-715, 2010.
- 2211 **Int Panis, L., B. De Geus, G. Vandenbulcke, H. Willems, B. Degrauwe, N. Bleux, V. Mishra, I. Thomas and R. Meeusen.** Exposure to particulate matter in traffic: A comparison of cyclists and car passengers. *Atmospheric Environment* 44(19), 2263-2270, 2010.
- 2212 **Wauthy, X.** Market coverage and the nature of product differentiation: a note. *Economics Bulletin* 30 (2), 1129-1136, 2010.
- 2214 **Lefebvre, M., T. Coelli and P. Pestieau.** On the convergence of social protection performance in the European Union. *CESifo Economic Studies* 56(2), 300-322, 2010.



Publications...

Reprints

Mathematical Programming	2186	Wei, Y. and T-M. Choi. Mean-variance analysis of supply chains under wholesale pricing and profit sharing schemes. <i>European Journal of Operational Research</i> 204, 255-262, 2010.
	2187	Gillis, N. and F. Glineur. Using underapproximations for sparse nonnegative matrix factorization. <i>Pattern Recognition</i> 43, 1676-1687, 2010.
	2188	Vanderbeck, F. and L. Wolsey. Reformulation and decomposition of integer programs. In M. Jünger et al. (eds.), <i>50 Years of Integer Programming 1958-2008</i> , Berlin-Heidelberg, Springer Verlag, 431-502, 2010.
	2190	Andersen, K. and Y. Pochet. Coefficient strengthening: a tool for reformulating mixed-integer programs. <i>Mathematical Programming Series A</i> 122(1), 121-254, 2010.
	2191	Brahimi, N., S. Dauzere-Peres and L. Wolsey. Polyhedral and Lagrangian approaches for lot sizing with production time Windows and setup times. <i>Computer & Operations Research</i> 37(1), 182-188, 2010.
	2192	Aardal, K. and L. Wolsey. Lattice based extended formulations for integer linear equality systems. <i>Mathematical Programming Series A</i> 121(2), 337-352, 2010.
	2193	De Melo, R. and L. Wolsey. Optimizing production and transportation in a commit-to-delivery business mode. <i>European Journal of Operational Research</i> 203(3), 614-618, 2010.
	2209	Constantino, M., A. Miller and M. Van Vyve. Mixing MIR inequalities with two divisible coefficients. <i>Mathematical Programming Series A</i> 123(2), 451-483, 2010.
	2215	Shokouhi, A., A. Hatami-Marbini, M. Tavana and S. Saati. A robust optimization approach for imprecise data envelopment analysis. <i>Computers & Industrial Engineering</i> 59(3), 387-397, 2010.

Discussion Papers

Econometrics	2010/3	Dhaene, G. and K. Jochmans. Split-panel jackknife estimation of fixed-effect models.
	2010/14	Isakova, A. Currency substitution in the economies of Central Asia: how much does it cost?
	2010/20	Rombouts, J. and L. Stentoft. Multivariate option pricing with time varying volatility and correlations.
	2010/25	Laurent, S., J. Rombouts and F. Violante. On the forecasting accuracy of multivariate GARCH models.
	2010/39	Sbrana, G. and A. Silvestrini. Aggregation of exponential smoothing processes with an application to portfolio risk evaluation.
	2010/45	Stephan, R. An extension of disjunctive programming and its impact for compact tree formulations.
	2010/46	Manzi, J., E. San Martin and S. Van Belleghem. School system evaluation by value-added analysis under endogeneity.
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	2010/6	Fleurbaey, M., S. Luchini, C. Muller and E. Schokkaert. Equivalent income and the economic evaluation of health care.
	2010/7	Inarra, E., C. Larrea and E. Molis. The stability of the roommate problem revisited.
	2010/10	Uno, H. Nested potentials and robust equilibria.
	2010/11	Molis, E. and R. Veszteg. Experimental results on the roommate problem.
	2010/12	Decancq, K. Copula-based orderings of multivariate dependence.
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2010/15	Forlani, E. Irish firms' productivity and imported inputs.	



Publications

Discussion Papers

Economic Theory	2010/16	Bréchet, Th., C. Camacho and V. Veliov. Model predictive control, the economy, and the issue of global warming.
	2010/17	Bréchet, Th., T. Tsachev and V. Veliov. Markets for emission permits with free endowment: a vintage capital analysis.
	2010/18	Picard, P. and P. Pieretti. Bank secrecy, illicit money and offshore Financial centers.
	2010/19	Isaac, T. When frictions favour information révélation.
	2010/21	Lefouili, Y. and C. Roux. Leniency programs for multimarket firms: the effects of Amnesty plus on cartel formation.
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	2010/32	Gautier, A. and D. Paolini. Universal service financing in competitive postal markets: one size does not fit all.
	2010/33	Onori, D. Competition and growth: reinterpreting their relationship.
	2010/35	Dethier, J.-J., P. Pestieau and R. Ali. The impact of a minimum pension on old age poverty and its budgetary cost. Evidence from Latin America.
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	2010/5	De Maere d'Aertrycke, G. and Y. Smeers. Liquidity risks on power exchanges.
	2010/8	Chevalier, Ph., I. Thomas and D. Geraets, E. Goetghebeur, O. Janssens, D. Peeters and F. Plaetria. Locating fire-stations: an integrated approach for Belgium.
	2010/9	Lange, J.-Ch. and P. Semal. Design of a network of reusable logistic containers.
	2010/28	Ehrenmann, A. and Y. Smeers. Stochastic equilibrium models for generation capacity expansion.
	2010/29	Devolder, O., F. Glineur and Y. Nesterov. Solving infinite-dimensional optimization problems by polynomial approximation.
	2010/34	Devolder, O., F. Glineur and Y. Nesterov. Double smoothing technique for infinite-dimensional optimization problems with applications to optimal control.
2010/47	Gillis, N. and F. Glineur. A multilevel approach for nonnegative matrix factorization.	

Some friendly news

Dinner in Laurence's honor

Laurence Wolsey retired at the end of last academic year (2009-2010). On that occasion, CORE organized a dinner in his honour on June 1st, 2010. Laurence has been an active researcher in Operations Research at CORE for more than 40 years where he has made fundamental contributions both in theory and computations, especially in the field of Integer Programming. He has served as research director of CORE (1980-81 and 1988-91), as well as chairman (1992-98). He is author of fundamental books in the field, namely *Integer and Combinatorial Optimization* (1988, with George Nemhauser), *Integer Programming* (1998) and *Production Planning by Mixed Integer Programming* (2006, with Yves Pochet). He also co-edited



other books as *50 Years of Integer Programming 1958-2008* (2010). He has received the Triennial Orchard-Hayes Prize of the Mathematical Programming Society in 1988, the Lanchester Prize of the Operations Research Society of America in 1989 and the EURO gold medal of the Association of European Operational Research Societies in 1994.

CONGRATULATIONS:

to Eve Ramaekers & Gilles on the birth of Clotilde on March 14, 2010
 to Claire Dujardin & Hughes on the birth of Alexis on April 4, 2010
 to Ying Wei & Feng on the birth of Tintin (Chongxi) on May 3, 2010
 to Sébastien Van Bellegem & Marie-Caroline for their wedding on June 26, 2010
 to Mathieu Van Vyve & Marion on the birth of Robin on June 28, 2010
 to Gauthier de Maere d'Aertrycke & Thérèse for their wedding on July 3, 2010
 to Séverine Dinjar & Laurent for their wedding on July 10, 2010
 to Laurent Buset & Calliope on the birth of Nicolas on July 26, 2010.

☞ *Help me understand what I am telling you about and I will explain it better.*

☞ *Aidez-moi à comprendre ce que je vous dis et je vous l'expliquerai mieux.*

☞ *Help me te begrijpen waarover ik het met u heb, dan zal ik het u beter kunnen uitleggen.*

Antonio Machado



CORE is offering research fellowships in economics, operations research and econometrics, starting September 1st, 2011.

How to apply: Applications (Personal data, CV, degrees, current position, research interests with sample papers and name of 3 referees) must be filled through the [website](#), BEFORE November 30, 2010. An automatic mail will be sent to your 3 referees asking them to send a reference letter through the website.

CORE Newsletter will be sent every 3 or 4 months.

**If you want to be removed from the mailing list,
just send an email to Sylvie.mauroy@uclouvain.be**

To contact us:

CORE

34 voie du Roman Pays
1348 Louvain-la-Neuve
Belgium

☎ +32(10)474321

e-mail: corsec-core@uclouvain.be
<http://www.uclouvain.be/core>

Responsible editors:
francisco.santanaferra@uclouvain.be
erik.schokkaert@uclouvain.be

Design & realisation:
sylvie.mauroy@uclouvain.be