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It is my honor to write this foreword to the report of the CORE research director, covering activities developed from Summer 2019 to Summer 2020. The current pandemic crisis deeply impacts the research activities of all departments and research centers in the world, and CORE is no exception. Since March 2020, new individual balances between teaching and research activities have had to be found. Visitors and seminar speakers have stopped populating our halls and offices. Interactions among colleagues, fellows and students have drastically decreased. As a response to this shock, however, new forms of interactions have emerged and members of CORE have continued to produce high quality research.

Let me begin with an example of a successful change in activity format following the pandemic. The Louvain group on Economics of Digitalization (LED) launched an internal seminar in September 2019. At the time of the first lockdown (March 2020), the seminar went online. Later in the term, the seminar series became the LED Online Seminar series (LED OS) with a majority of external speakers from different European institutions and with a mixed internal and external audience. The experience is still ongoing this academic year, with a still growing and more diversified set of speakers and attendees.

Among the many fields and topics that CORE researchers have studied last year, I would like to mention three that have been particularly active and that very well illustrate how research at CORE remained pathbreaking and close to current social challenges.

The first field is industrial organization, in which a large group of researchers study the sharing economy and the digital economy.

This research is partly funded in the frame of the ARC program, the main funding program internal to the University.

The second field is convex optimization methods, which many CORE members study in relationship with the big data challenges. This research is partly funded in the frame of Yuri Nesterov’s ERC advanced grant.

The third field is networks, in which CORE researchers study social influence dynamics in relationship to game theory and agent-based modeling. This research is partly funded by the EU in the frame of a PhD network. This allows me to underline how important doctoral and post-doctoral trainings remain for CORE.

You will read below the details about these research efforts and many other ones. You will also see that the format of this report has changed. We have switched from a paper format to a fully online and hopefully more dynamic format. All texts (except this one) have been removed and replaced with hyperlinks that will drive you towards more detailed contents. I thank the colleagues from the communication team for having stimulated this change (and largely paid the fixed cost of it). I hope it will help you directly reach the pieces of information you find more relevant.

I wish you all the best for the coming year,

François Maniquet
Director
CORE TEAM | DIRECTORY

Mathieu Van Vyve
President
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mathieu.vanvyve@uclouvain.be

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Research Director
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francois.maniquet@uclouvain.be

Nancy Guillaume
Administrative Manager
+32 (0)10 47 43 54
nancy.guillaume@uclouvain.be
CORE TEAM | Faculty members

Per Agrell
Prof. of Operations Research

Paul Belleflamme
Prof. of Economics

Constantin Blome
Prof. of Operations Research

Thierry Bréchet
Prof. of Economics

Daniele Catanzaro
Prof. of Operations Research

Philippe Chevalier
Prof. of Operations Research

Julio Davila
Prof. of Economics

François Glineur
Prof. of Operations Research

Jean Hindriks
Prof. of Economics

Leonardo Iania
Prof. of Finance

Johannes Johnen
Prof. of Economics

Bart Jourquin
Prof. of Operations Research, CORE
TOPICS

Behavioral Economics
Big Data
Digital Economics
Econometrics
Education
Energy
Environmental Economics
Financial Economics
Game Theory
Health
Industrial Organisation
Macroeconomics
Mathematical Optimization
Microeconomics Theory
Pension
Public Economic Theory
Topics

Regional & Geographical Sciences
Social Choice & Welfare Economics
Supply Chain
Transport Economics
Miscenalleous
TOPICS | Behavioral Economics

CORE Reprints


Working Papers and Manuscripts


Prizes and Awards

**CORE Reprints**


**Other Published Papers**


CORE Reprints


CORE Discussion Papers


2020/27. Paul Belleflamme, Martin Peitz and Eric Toulemonde. The tension between market shares and profit under platform competition.


Working Papers and Manuscripts

Prizes and Awards
Filomena Garcia and Muxin Li. GEE awarded at Conferência Digitalização na Economia for their paper «Digitalization in two-sided platform», 2019.

Media
Paul Belleflammé. Les coups de génie (et tordus) d’Amazon : comment la start-up créée par Jeff Bezos est devenue ultra dominante. Trends Tendance, 24 octobre 2019


TOPICS | Econometrics

CORE Reprints


Other Published Papers


CORE Discussion Papers


2020/03. Michel Mouchart, Renzo Orsi and Guillaume Wunsch. Causality in econometric modeling. From theory to structural causal modeling.

Working Papers and Manuscripts


CORE Reprints


CORE Discussion Papers


Media


(COVID19)


CORE Reprints


CORE Discussion Papers


**Media**

*Anthony Papavasiliou*. ERC awards Greek researcher for research in the optimization of the operation of electric power systems. *Energypress.gr*, October 1, 2019.

**Prizes and Awards**

*Anthony Papavasiliou*. ERC Starting Grant 2020 for his project «ICEBERG: Scalable optimization of power systems with flexible demand and renewable supply». 
TOPICS | Environmental Economics

Book


Media

Published Papers


CORE Discussion Papers


Working Papers and Manuscripts


Book

TOPICS | Game Theory

CORE Reprints


Other Published Papers


Book

CORE Discussion Papers


Working Papers and Manuscripts


CORE Reprints


Other Published Papers


CORE Discussion Papers

Working Papers and Manuscripts


Media


Bruno Colmant et Jean Hindriks. Les 7 idées taboues pour relancer notre économie. La Nouvelle Gazette, 22 juin 2020. (COVID19)
TOPICS | Industrial Organisation

CORE Reprints


Published Papers


Working Papers and Manuscripts


CORE Discussion Papers


CORE Reprints


CORE Discussion Papers

TOPICS | Mathematical Optimization

CORE Reprints


Published Papers


CORE Discussion Papers

2020/08. Yuriii Nesterov. Inexact accelerated high-order proximal-point methods.
TOPICS | Microeconomic Theory

CORE Reprints


CORE Discussion Papers


2020/15. Sergey Kichko, Wen-Jung Liang, Chao-Chen Mai, Jacques-François Thisse and Ping Wang. The rise (and fall) of science parks


Working Papers and Manuscripts

CORE Reprints


CORE Discussion Papers

2020/04. Arno Baurin and Jean Hindriks. Pension financing and individual retirement account.

Media

TOPICS | Public Economic Theory

CORE Reprints


Published Papers


Books


Working Papers and Manuscripts


Media


**TOPICS | Regional and Geographical Sciences**

**CORE Reprints**


**Working Papers and Manuscripts**


Media

Published Papers


**Media**


**Book**

CORE Reprints


Other Published Papers


Working Papers and Manuscripts


Prizes and Awards

Constantin Blome. Distinguished Visiting Professor at Xi’an Jiatong University, China.
CORE Reprints


Media

CORE Reprints


Other Published Papers


Victor Ginsburgh and Juan Moreno-Ternero. A lingua franca in the post-Brexit EU. Cuadernos Economicos de ICE, 98, 12-23, 2019. (Language)

## PhD Students and Junior Researchers

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Gautier Attanasi</td>
<td>Daniel Felipe Avila Girardot</td>
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<td>Gilles Bertrand</td>
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<td>Jacques Cartuyvels</td>
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<td>Fabrizio Ciotti</td>
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<td>Sarah Damai</td>
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<td>Julian Das</td>
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<td>Pierre de Callatay</td>
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<td>Henri Dehaybe</td>
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<td>Julien Dewez</td>
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<td>Nikita Doikov</td>
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<td>Jérôme Dollinger</td>
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<td>Liana Sabina Luncasu</td>
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<td>Ilyès Mezghani</td>
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<td>Gaëtan Montero Redondo</td>
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<td>Mariam Nanumyam</td>
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<td>Robin Ng</td>
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<td>Rishikesh Parma</td>
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<td>Erika Pini</td>
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<td>Niranjana Prasad</td>
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<td>José-Miguel Quesada Perez</td>
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<td>Anton Rodomanov</td>
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<td>Mathieu Sauvenier</td>
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<td>Valerio Serse</td>
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<td>Yu Sun</td>
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<td>Akylai Taalaibekova</td>
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<td>Lorenzo Tondi</td>
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<td>Tiziano Toniolo</td>
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<td>Sonia Trabelsi</td>
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</tbody>
</table>

## Post Doctoral Fellows

Research fellows are scholars working at CORE for a period of one to three years.

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Masoud Akookhosh</td>
<td>KU Leuven, Belgium</td>
</tr>
<tr>
<td>Arnaud Adam</td>
<td>CORE, UCLouvain, Belgium</td>
</tr>
<tr>
<td>Mihai Florea</td>
<td>Aalto University, USA</td>
</tr>
<tr>
<td>Geovani Nunes Grapiglia</td>
<td>Federal University of Parana, Brazil</td>
</tr>
<tr>
<td>Mushin Li</td>
<td>Indiana University, Bloomington, USA</td>
</tr>
<tr>
<td>Elizaveta Lukmanova</td>
<td>National Bank of Belgium</td>
</tr>
<tr>
<td>Seyed Hassan Nosratabadi</td>
<td>Rutgers University, USA</td>
</tr>
<tr>
<td>Evgeniya Vorontsova</td>
<td>Université Grenoble Alpes, France</td>
</tr>
<tr>
<td>Yi Zhu</td>
<td>Università Politecnica delle Marche (Italy)</td>
</tr>
</tbody>
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Completed PhD Dissertations

Six CORE doctoral students successfully defended their Doctoral Dissertation at CORE.


<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Project/Research Area</th>
<th>Fields of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masoud Ahookhosh</td>
<td>Postdoctoral researcher</td>
<td>ERC Project: Accelerated convex optimization</td>
<td>mathematical optimization</td>
</tr>
<tr>
<td>Arnaud Adam</td>
<td>Postdoctoral researcher</td>
<td>FNRS Project: Trucks: Geography of traces and places</td>
<td>transport, spatial, big data, networks</td>
</tr>
<tr>
<td>Mihai Florea</td>
<td>Postdoctoral researcher</td>
<td>ERC Project: Accelerated convex optimization</td>
<td>mathematical optimization</td>
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<tr>
<td>Geovani Nunes Grapiglia</td>
<td>Postdoctoral researcher</td>
<td>ERC Project: Accelerated convex optimization</td>
<td>mathematical optimization</td>
</tr>
<tr>
<td>Muxin Li</td>
<td>Postdoctoral researcher</td>
<td>ARC project: Platform and operations in the sharing economy</td>
<td>industrial organization, digitalization</td>
</tr>
<tr>
<td>Elizaveta Lukmanova</td>
<td>Postdoctoral researcher</td>
<td>ARC project: Negative and ultra-low interest rates: Behavioural and quantitative modelling</td>
<td>monetary policy, international macroeconomics, macroeconometrics</td>
</tr>
<tr>
<td>Seyed Hassan Nosratabadi</td>
<td>Postdoctoral researcher</td>
<td>IWABE Project: Individual Welfare Analysis Based on Behavioral Economics</td>
<td>decision theory and its application to both individual and social choice</td>
</tr>
<tr>
<td>Evgeniya Vorontsova</td>
<td>Postdoctoral researcher</td>
<td>ERC Project: Accelerated convex optimization</td>
<td>mathematical optimization</td>
</tr>
</tbody>
</table>
Yi Zhu
Postdoctoral researcher

*Fields of interest:* environmental health economics, industrial organization and international business
**CORE TEAM | PhD Students**

**Gautier Attanasi**
Louvain School of Economics  
*Thesis: Dimension reduction of high dimensional nonstationary time series*  
*Supervisor: Sébastien Van Bellegem*

**Daniel Avila**
Louvain School of Economics  
*Thesis: A stochastic programming approach to multi-stage TSO-DSO coordination under uncertainty*  
*Supervisor: Anthony Papavasiliou*

**Gilles Bertrand**
Louvain School of Engineering  
*Thesis: Adaptive rading in the continuous intraday market*  
*Supervisor: Anthony Papavasiliou*

**Jean-Jacques Cartuyvels**
Louvain School of Engineering  
*Thesis: Study on scarcity pricing in Belgium*  
*Supervisor: Anthony Papavasiliou*

**Sefane Cetin**
Louvain School of Economics  
*Thesis: Heterogenous preferences and risk sharing under different pension systems*  
*Supervisor: Jean Hindriks*

**Xyuan Chen**
Louvain School of Economics  
*Thesis: Tax enforcement and multinationals’ profit shifting*  
*Supervisor: Jean Hindriks*

**Fabrizio Ciotti**
Louvain School of Economics  
*Thesis: The economics of digitization*  
*Supervisor: Paul Belleflamme*

**Sarah Damai**
Louvain School of Management  
*Thesis: Managing impatient flows in a hospital taking into account the patient diagnosis and the stochastic nature of arrivals*  
*Supervisor: Philippe Chevalier*
Julian Das
Louvain School of Management
Thesis: Comparative analysis of external costs on the delivery of e-commerce products
Supervisor: Bart Jourquin

Pierre de Callataï
Louvain School of Economics
Thesis: The role of information in social dilemmas
Supervisor: Vincent Vannetelbosch

Henri Dehaybe
Louvain School of Management
Thesis: A deep reinforcement learning approach for solving stochastic inventory problems
Supervisor: Philippe Chevalier

Julien Dewez
Sciences de l’Ingénieur
Thesis: Lower bounds on the nonnegative rank
Supervisor: François Glineur

Nikita Doikov
Louvain School of Engineering
Thesis: Development of second order methods for structured optimization problems
Supervisor: Yuri Nesterov

Jérôme Dollinger
Louvain School of Economics
Thesis: Coalitions interrelations and co-evaluations
Supervisors: Ana Mauleon and Vincent Vannetelbosch

Thomas Eisfeld
Louvain School of Economics
Thesis: Peer-dependent reference points
Supervisors: Johannes Johnen and François Maniquet

Martin Frohn
Louvain School of Engineering
Thesis: Greed, majorization, and their impact on optimization over lattices unrooted binary trees
Supervisor: Daniele Catanzaro
Sylvain Funck
Louvain School of Economics
Thesis: Matching with group-dependent preferences: Refugees resettlement and employment guarantee scheme
Supervisors: Ana Mauleon and Vincent Vannetelbosch

Madeleine Guyot
Department of Geography
Thesis: Urban streetscape and wellbeing: The example of Brussels
Supervisors: Isabelle Thomas and Sophie Vanwambeke

Thomas Hacardiaux
Louvain School of Management
Thesis: Benefits of horizontal cooperation in supply chains
Supervisor: Jean-Sébastien Tancrez

Thuc Huan Ha
Louvain School of Economics
Thesis: Essays on industrial organization and circular economy
Supervisors: Paul Belleflamme and Thierry Bréchet

Manuel Herra Rodriguez
Louvain School of Management
Thesis: Three essays on port network optimization and Panama canal models
Supervisor: Per Agrell

Quentin Lété
Louvain School of Engineering
Thesis: Models and algorithms for the active management of the European electricity
Supervisor: Anthony Papavasiliou

Céline Gérard
Louvain School of Engineering
Thesis: Mobilizing flexible demand in electric power systems through service quality differentiation
Supervisor: Anthony Papavasiliou

Liana-Sabina Luncasu
Louvain School of Economics
Thesis: Nonparametric estimation of efficiency frontiers with noise in both variables
Supervisor: Sébastien Van Bellegem
Chenghong Luo
Louvain School of Economics and Università Ca’Foscari, Venezia
Thesis: Homophily and segregation in social networks when individuals are (limited) forward-looking
Supervisors: Pietro Dindo and Vincent Vannetelbosch

Ilyès Mezghani
Louvain School of Engineering
Thesis: Coordinated scheduling of transmission and distribution operations in electric power systems
Supervisor: Anthony Papavasiliou

Gaëtan Montero
Department of Geography
Thesis: Measuring and understanding the morphology of urban space. Theoretical and empirical contributions on the basis of Brussels metropolitan area
Supervisor: Isabelle Thomas

Mariam Nanumyam
Louvain School of Economics and Universität Bielefeld
Thesis: The impact of opinion formation on expectations and market dynamics
Supervisor: Paul Belleflamme

Yuting Mou
Louvain School of Engineering
Thesis: Nonlinea
Supervisors: Paul Belleflamme and Thierry Bréchet

Jui Pin Robin Ng
Louvain School of Economics
Thesis: Essays on the economics of trust in the digital economy
Supervisor: Paul Belleflamme

Risa Pavia
Louvain School of Economics and Universidade Nova de Lisboa
Thesis: Taxation of multinational corporations
Supervisors: Jean Hindriks and Susana Peralta

Wenli Peng
Louvain School of Economics
Thesis: Global supply chains modelling
Supervisor: Philippe Chevalier
Tiziano Toniolo  
Louvain School of Economics  
*Thesis:* Impact of effective taxation on labor supply and disposable income in Belgium  
*Supervisor:* Julio Davila

Sonia Trabelsi  
Department of Geography  
*Thesis:* Geographies of green and health in Belgium: Measurements, opportunities and challenges  
*Supervisor:* Isabelle Thomas
Scientific Exchanges | Research Visitors

Affiliate Members

CORE can count on the precious support of its affiliate members who are researchers and academics from outside UCLouvain that are contributing to the CORE scientific environment and domains of expertise.

Rabah Amir, University of Iowa, USA  
Paul Champsaur, Accepts, France  
Bernard Cornet, Université Paris 1, France  
Koen Decancq, Universiteit Antwerpen, Belgium  
Jean-Charles Delvenne, ICTEAM, UCLouvain, Belgium  
Axel Gautier, Université de Liège, Belgium  
Michel Goemans, Massachusetts Institute of Technology, Cambridge, USA  
Adel Hatami-Mabini, De Montfort University, United Kingdom  
Elhanan Helpman, Harvard University, USA  
Jean-Jacques Herings, Universiteit Maastricht, The Netherlands  
Michel Lebreton, Toulouse school of Economics, France  
Marie-Louise Leroux, Université du Québec à Montréal, Canada  
Dunia Lopez Pintado, Universidad Pablo de Olavide, Seville, Spain  
Pascal Mossay, Newcastle University, United Kingdom  
George Nemhauser, Georgia University of Technology, Atlanta, USA  
Dimitri Paolini, Università degli Studi di Sassari, Italy  
Yves Pochet, PURATOS, Dilbeek, Belgium  
Heracles Polemarchakis, University of Warwick, United Kingdom  
Ernesto San Martin, Pontificia Universida Catolica de Chile, Santiago, Chile  
Erik Schokkaert, KU Leuven, Belgium  
Jose J. Monerris, Universidad de Valencia, Spain  
Jean-François Richard, University of Pittsburgh, USA  
Vladimir Shikhman, Technische Universität Chemnitz, Germany  
Joe Tharakan, Université de Liège, Belgium  
Giacomo Valetta, EDHEC Business School, Roubaix, France  
Dirk Van de Gaer, Universiteit Gent, Belgium  
Xavier Wauthy, Université Saint-Louis, Bruxelles, Belgium  
Shlomo Weber, New Economic School, Moscow, Russia

Visitors

CORE benefited from the visit of a number of scholars whose stays ranged from a few days to a few months. Among them:

Ata Atay, Université Saint-Louis, Bruxelles, Belgium  
Eric Delmelle, University of North Carolina, Charlotte, USA  
Daniel De Wolf, Université du Littoral Côte d’Opale, France  
Alexander Gasknikov, Moscow Technical University, Russia  
Filip Hanzely, King Abdullah University of Science and Technology, Thuwal, Arabie-Saoudite  
Nishant Mishra, KU Leuven Belgium  
Yukihiro Nishimura, Osaka University, Japan,  
Laman Orujova, Nova School of Business and Economics, Lisboa, Portugal  
Amma Panin, Oxford University, United Kingdom  
Simone Polimeni, Politecnica di Milano, Italy  
Marco Rognan, Free University of Bolzano-Bozen, Italy  
Jun Singh, Paris School of Economics, France  
Sebastian Stich, Ecole Polytechnique Fédérale de Lausanne, Switzerland  
Claudio Telha, Universidad de Chile, Santiago, Chile  
Marius Vogel, Universitat zu Köln, Germany  
Yi Zhu, Università Politecnica delle Marche, Ancône, Italy
Scientific Exchanges | Conferences

Behavioral Economics, Industrial Organization, Macroeconomics, Microeconomic theory
European Doctoral Jamboree 2019 September 19-20, 2019

Big Data
CORE Lecture Series from Eric Ghysels: «The econometrics of mixed frequency (big) data»
September 6-12, 2019

Digital Economics
Digital Economics Research Network Workshop
December 16, 2019

Econometrics
CORE Lecture Series from Eric Ghysels: «The econometrics of mixed frequency (big) data»
September 6-12, 2019
European Doctoral Jamboree 2019
September 19-20, 2019

Environmental Economics
Economie et accords environnementaux internationaux: notions et leçons d’une approche interdisciplinaire par Henry Tulkens
December 17, 2019

Financial Economics
European Doctoral Jamboree 2019
September 19-20, 2019
Public Economic Theory
5th Belgian Japanese Public Finance Workshop
March 13, 2020 - March 14, 2020

Supply Chain
Procurement Workshop: «How to sell the procurement value to your boss»
February 21, 2020
Scientific Exchanges | Seminars

Behavioral Economics

October 17, 2019. Markus Dertwinkel Kalt, Frankfurt School of Finance and Management
Salience effects in portfolio selection
UCLouvain Economics Seminar

February 6, 2020. Martin Peitz, Universität Mannheim
Add clutter, and media diversify
UCLouvain Economics Seminar

March 5, 2020. Anandi Mani, Oxford University
Cognitive droughts
UCLouvain Economics Seminar

Digital Economics

December 11, 2019. Muxin Li, CORE
One-sided or two sided? A strategic design approach
Brown Bag Seminar Series

March 25, 2020. Paul Belleflamme, CORE
Swimming with or against the stream? Understanding competition in the streaming industry
Brown Bag Seminar Series

April 22, 2020. Muxin Li, CORE
Managing participation and transaction on a digital platform
Brown Bag Seminar Series

June 10, 2020. Lorien Sabatino, Polytechnic University of Turin
Fast internet and firm creation: Evidence from Italy
Louvain Economics of Digitization Seminar

July 8, 2020. Michail Batikas, Rennes School of Business
European privacy law and global markets for data
Louvain Economics of Digitization Seminar

Econometrics

October 4, 2019. Arnaud Dufays, UNamur
Sparse-point VAR models
Econometrics Seminar

November 15, 2019. Andreas Alfons, Erasmus University Rotterdam
A projection pursuit approach for robust maximum association measures with an extension of sparsity
Econometrics Seminar

December 13, 2019. Jeroen Rombouts, ESSEC Business School, Cergy
Pricing individual stock options using both stock and market index information
Econometrics Seminar

March 6, 2020. Marinho Bertanha, University of Notre-Dame
Impossible inference in econometrics: Theory and applications
Econometrics Seminar
Energy

February 12, 2020. Valerio Serse, CORE
The impact of the temporary VAT reform on the Belgian electricity market
Brown Bag Seminar Series

February 4, 2020. Niels Löhndorf, Université du Luxembourg
The value of coordination in multimarket bidding of grid energy storage
Operations Research Seminar

Financial Economics

November 20, 2019. Aleksandar Todorovic, LFIN, UCLouvain
What leads people tolerate negative interest rates on savings?
Brown Bag Seminar Series

February 12, 2019. Valerio Serse, CORE
The impact of the temporary VAT reform on the Belgian electricity market
Brown Bag Seminar Series

December 12, 2019. Anastasios Karantounias, FED, Atlanta
Greed versus fear: Optimal-time consistent taxation with default
UCLouvain Economics Seminar

Game Theory

November 27, 2019. Ata Atay, Université Saint-Louis Bruxelles and CORE
A bargaining set for roommate problems
Brown Bag Seminar Series

June 24, 2020. Gabriele Rovigatti, Bank of Italy
From mad men to maths men: Concentration and buyer power in online advertising
Louvain Economics of Digitization Seminar

Health

February 20, 2020. Gabriele Conti, University College London
Long-term health effects of prenatal and infancy home visiting: Evidence from a randomized trial
UCLouvain Economics Seminar

May 5, 2020. Anna Zaytseva, Aix-Marseille School of Economics
Estimating general practitioners’ performance in low medical density areas: Evidence from French synthetic cohort data
Brown Bag Seminar Series

Industrial Organization

October 17, 2019. Markus Dertwinkel Kalt, Frankfurt School of Finance and Management
Salience effects in portfolio selection
UCLouvain Economics Seminar

October 31, 2019. Jacques Crémer, Toulouse School of Economics
Migration between platform
UCLouvain Economics Seminar

November 13, 2019. Leonardo Madio, CORE
Exclusive data, price manipulation and market leadership
Brown Bag Seminar Series
Industrial Organization

November 21, 2019. Filomena Garcia, Indiana University, Bloomington
Nationalistic bias in collusion competition
UCLouvain Economics Seminar

February 6, 2020. Martin Peitz, Universität Mannheim
Add clutter and media diversity
UCLouvain Economics Seminar

March 25, 2020. Paul Bellefleurme, CORE
Swimming with or against the stream? Understanding competition in the streaming industry
Brown Bag Seminar Series

April 1, 2020. Axel Gautier, Université de Liège and CORE
Competition between integrated incumbents and platforms
Brown Bag Seminar Series

April 8, 2020. Shiva Shekhar, Compass Lexecom
Zero pricing platform competition
Brown Bag Seminar Series

April 29, 2020. Marco Magnani, Padua University and ARERA
What goes around, comes around: Reciprocal effects and double sided moral hazard in the choice of brand licensing
Brown Bag Seminar Series

June 3, 2020. Marco Haan, Rijksuniversiteit Groningen
Media platforms and endogenous multi-homing
Louvain Economics of Digitization Seminar

June 17, 2020. Emil Palikot, Toulouse School of Economics
Price is right! Information and dynamics on online
Louvain Economics of Digitization Seminar

June 24, 2020. Gabriele Rovigatti, Bank of Italy
From mad men to maths men: Concentration and buyer power in online advertising
Louvain Economics of Digitization Seminar

Macroeconomics

October 10, 2019. Luca Fornaro, Centre de Recerca en Economia Internacional, Barcelona
Monetary Union and financial integration
UCLouvain Economics Seminar

November 7, 2019. Mark Weder, Aarhus Universitet
Do we really know that monetary policy was destabilizing in the 1970s?
UCLouvain Economics Seminar

November 28, 2019. Juan Carluccio, Banque de France
Dissecting the impact of imports from low-wage countries on French consumer prices
UCLouvain Economics Seminar

December 4, 2019. Elizaveta Lukmanova, CORE and National Bank of Belgium
New evidence on monetary transmission: Interest rate versus inflation target shocks
Brown Bag Seminar Series

December 5, 2019. Jochen Mankart, Bundesbank
House price expectations and housing choice
UCLouvain Economics Seminar

December 12, 2019. Anastasios Karantounias, Federal Reserve Bank, Atlanta
Greed versus fear: Optimal-time consistent taxation with default
UCLouvain Economics Seminar

December 18, 2019. Mishel Ghassibe, Oxford University and Bank of England
State dependence of fiscal multipliers: The source of fluctuations matters
Brown Bag Seminar Series
Mathematical Optimization

September 17, 2019. Vladimir Shikhman, Technische Universität Chemnitz
Discrete choice pro-functions on the simplex
Operations Research Seminar

November 26, 2019. Nishant Mishra, LSM, UCLouvain
Data-driven optimal policies for opportunistic maintenance of partially observable systems
Operations Research Seminar

December 3, 2019. Paschalis Tsiaflakis, Nokia Bell Labs, New Providence
Optimization of ultrabroad and internet access
Operations Research Seminar

Approximation algorithms for location routing with depot capacities
Operations Research Seminar

December 17, 2019. Stein-Erik Fleten, Norwegian University of Science and Technology
Capacity payments for blackout risk reduction: Empirical analysis of PJM
Operations Research Seminar

Optimal algorithms for decentralized distributed convex optimization
Operations Research Seminar

February 2, 2020. Niels Löhndorf, Université du Luxembourg
The value of coordination in multimarket bidding of grid energy storage
Operations Research Seminar

Teams as a service: Team formation on social networks
Operations Research Seminar

Average-case acceleration through spectral density estimation and universal asymptotic optimality of Polyak momentum
Operations Research Seminar

March 10, 2020. Samuel Fiorini, Université libre de Bruxelles
The stable set problem in graphs with few disjoint odd cycles
Operations Research Seminar

Microeconomic Theory

October 3, 2019. Yair Antler, Tel Aviv University
Multilevel marketing: Pyramid-shaped schemes or exploitative scams
UCLouvain Economics Seminar

October 31, 2019. Jacques Crémer, Toulouse School of Economics
Migration between platform
UCLouvain Economics Seminar

November 13, 2019. Leonardo Madio, CORE
Exclusive data, price manipulation and market leadership
Brown Bag Seminar Series

November 14, 2019. Julia Cagé, Sciences Po, Paris
Heroes and villains: The effect of combat leadership on collaboration in war-time France
UCLouvain Economics Seminar

December 5, 2019. Jochen Mankart, Bundesbank
House price expectations and housing choice
UCLouvain Economics Seminar

February 13, 2020. Alex Armand, Nova School of Business and Economics, Lisboa
Does information break the political resource curse? Experimental evidence from Mozambique
UCLouvain Economics Seminar
## Microeconomic Theory (cont’d)

June 24, 2020. Gabriele Rovigatti, Bank of Italy

February 19, 2020. Andrzej Szczepaniak, Universiteit Gent
*Life before super Thursday: Chasing central bank information shocks*
Brown Bag Seminar Series

*From mad men to maths men: Concentration and buyer power in online advertising*
Louvain Economics of Digitization Seminar

July 1, 2020. Elias Carroni, Università di Bologna
*Does costly persuasion signal quality?*
Louvain Economics of Digitization Seminar

## Regional and Geographical Sciences

May 6, 2020. Anna Zaytseva, Aix-Marseille School of Economics
*Estimating general practitioners’ performance in low medical density areas: Evidence from French synthetic cohort data*
Brown Bag Seminar Series

May 27, 2020. Alberto Iozzi, Università degli Studi di Roma «Tor Vergata»
*Congestion and incentive in the age of driverless cars*
Louvain Economics of Digitization Seminar

## Miscellaneous (Political Economy)

February 27, 2019. Austin Wright, University of Chicago *Rebel capacity and combat tactics*
Louvain Economics of Digitization Seminar
Achievements & Recognitions

Prizes and Awards

Behavioral Economics

Digital Economics
Filomena Garcia and Muxin Li. GEE awarded at Conferência Digitalização na Economia for their paper «Digitalization in two-sided platform», 2019.

Energy
Anthony Papavasiliou. ERC Starting Grant 2020 for his project «ICEBERG: Scalable optimization of power systems with flexible demand and renewable supply».

Supply Chain
Constantin Blome. Distinguished Visiting Professor at Xi’an Jiatong University, China.
**Behavioral Economics**

*Expectations and Social Influence Dynamics in Economics (ExSIDE)*
CORE coordinator: Vincent Vannetelbosch  
CORE researchers: Chenghong Luo, Mariam Nanumyam and Akylai Taalaibekova  
Financement: European Commission  
Date: January 2017 - December 2020

*Individual Welfare Analysis based on Behavioral Economics (IWABE)*
CORE coordinators: Johannes Johnen and François Maniquet  
CORE researcher: Seyed Hassan Nosratabadi  
Financement: FNRS (EOS)  
Date: January 2018 - December 2021

**Big Data**

*Application of big data digital technologies in the healthcare sector*
CORE coordinator: François Glineur  
Financement: FNRS (EOS)  
Date: August 2017 - July 2020

*Following trucks with GPS data: Measuring and modelling routes for a spatially smarter and more equitable taxation*
CORE coordinator: Isabelle Thomas  
CORE researcher: Arnaud Adam  
Financement: FNRS (PDR)  
Date: December 2018 - November 2020

**Digital Economics**

*Platform Regulation and Operations in the Sharing Economy (PROSEco)*
CORE coordinators: Paul Belleflamme, Philippe Chevalier, Johannes Johnen and Jean-Sébastien Tancrez  
CORE researchers: Muxin Li, Robin NG and Rishikesh Parma  
Financement: Fédération Wallonie-Bruxelles (ARC)  
Date: October 2019 - September 2024

*The interplay between competition on and competition among digitam marketplaces*
CORE coordinator: Paul Belleflamme  
CORE researcher: Fabrizio Ciotti  
Financement: FNRS (FRESH)  
Date: February 2020 - January 2024

*The cost of hiding content quality, social welfare and privacy*
CORE coordinator: Paul Belleflamme  
CORE researcher: Leonardo Madio  
Financement: UCLouvain (MOVE-IN Louvain)  
Date: August 2018 - March 2020
Energy

Flexible energy production, demand and storage-based virtual power plants for electricity markets and resilient DSO operation (FEVER)
CORE coordinator: Anthony Papavasiliou
CORE researcher: Ilyès Mezghani, Nicolas Stevens
Financement: European Commission (H2020)
Date: February 2020 - July 2023

Francqui Foundation research professorship
CORE coordinator: Anthony Papavasiliou
Financement: Francqui Foundation
Date: September 2018 - August 2021

Mobilizing flexible demand in electric power systems through service quality
CORE coordinator: Anthony Papavasiliou
CORE researcher: Céline Gérard
Financement: FNRS (PDR)
Date: October 2017 - September 2019

Models and algorithms for the active management of the European electricity grid
CORE coordinator: Anthony Papavasiliou
CORE researcher: Quentin Lété
Financement: FNRS (Aspirant)
Date: October 2019 - September 2021

Evaluating the value of flexibility in power system
CORE coordinator: Anthony Papavasiliou
CORE researcher: Gilles Bertrand
Financement: FNRS (FRIA)
Date: October 2018 - September 2020

Energy technology modelling framework for policy support towards a cost effective and sustainable society in 2030-2050 (ECPO 2030-2050)
CORE coordinator: Anthony Papavasiliou
CORE researcher: Jacques Cartuyvels
Financement: FNRS (FRIA)
Date: October 2018 - May 2023

Incentive for advancing to step 2 of the ERC starting grant
CORE coordinator: Anthony Papavasiliou
Financement: UCLouvain (FSR)
Date: September 2017 - October 2019

Modeling flexibility at sub-hourly time scales
CORE coordinator: Anthony Papavasiliou
Financement: Electrabel
Date: February 2016 - October 2020

Color power
CORE coordinators: Philippe Chevalier and Anthony Papavasiliou
CORE researcher: Yuting Mou
Financement: Electrabel
Date: October 2015 - September 2021

Using analytics and optimization to enable Africa to leapfrog to energy
CORE coordinator: Anthony Papavasiliou
CORE researcher: Daniel Avila
Financement: Fonds de Recherche Pierre et Colette Bauchau
Date: April 2018 - December 2020
**Game Theory**

**Expectations and Social Influence Dynamics in Economics (ExSIDE)**
CORE coordinator: Vincent Vannetelbosch  
CORE researchers: Chenghong Luo, Mariam Nanumyam and Akylai Taalaibekova  
Financement: European Commission  
Date: January 2017 - December 2020

**Social and economic network formation under limited farsightness: Theory and applications**
CORE coordinator: Ana Mauleon  
CORE researcher: Jérôme Dollinger  
Financement: Fédération Wallonie-Bruxelles (ARC)  
Date: October 2015 - September 2020

**Mobilizing flexible demand in electric power systems through service quality**
CORE coordinator: Anthony Papavasiliou  
CORE researcher: Céline Gérard  
Financement: FNRS (PDR)  
Date: October 2017 - September 2019

**The role of information in social dilemmas**
CORE coordinators: Ana Mauleon and Vincent Vannetelbosch  
CORE researcher: Pierre de Callataÿ  
Financement: FNRS (PDR)  
Date: July 2018 - June 2022

**Color power**
CORE coordinators: Philippe Chevalier and Anthony Papavasiliou  
CORE researcher: Céline Gérard  
Financement: Electrabel  
Date: September 2017 - September 2020

**Self -selection in social dilemmas**
CORE coordinators: Ana Mauleon and Vincent Vannetelbosch  
CORE researcher: Pierre de Callataÿ  
Financement: Fonds de Recherche Pierre et Colette Bauchau  
Date: January 2018 - December 2021

**The interplay between competition on and competition among digital marketplaces**
CORE coordinator: Paul Belleflamme  
CORE researcher: Fabrizio Ciotti  
Financement: FNRS (FRESH)  
Date: February 2020 - January 2024

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**Health**

**Impact of green/blue spaces on specific morbidity and cause-specific mortality in Belgium**
CORE coordinator: Isabelle Thomas  
CORE researcher: Sonia Trabelsi  
Financement: BELSPO (BRAIN)  
Date: July 2015 - December 2019

**Nature impact on mental health distribution**
CORE coordinator: Isabelle Thomas  
CORE researchers: Madeleine Guyot and Sonia Trabelsi  
Financement: BELSPO (BRAIN)  
Date: July 2017 - December 2021

**Application of big data digital technologies in the healthcare sector**
CORE coordinator: François Clineur  
Financement: Région wallonne  
Date: August 2017 - July 2021
Industrial Organization

Platform Regulation and Operations in the Sharing Economy (PROSEco)
CORE coordinators: Paul Belleflamme, Philippe Chevalier, Johannes Johnen and Jean-Sébastien Tancrez
CORE researchers: Muxin Li, Robin NG and Rishikesh Parma
Financement: Fédération Wallonie-Bruxelles (ARC)
Date: October 2019 - September 2024

The cost of hiding content quality, social welfare and privacy
CORE coordinator: Paul Belleflamme
CORE researcher: Leonardo Madio
Financement: UCLouvain (MOVE-IN Louvain)
Date: August 2018 - March 2020

The interplay between competition on and competition among digitam marketplaces
CORE coordinator: Paul Belleflamme
CORE researcher: Fabrizio Ciotti
Financement: FNRS (FRESH)
Date: February 2020 - January 2024

Mathematical Optimization

Accelerated Convex Optimization (ACCOpt)
CORE coordinator: Yurii Nesterov
CORE researchers: Masoud Ahookhosh, Nikita Doikov, Mihai Florea, Geovani Nunes Grapiglia, Anton Rodomanov and Evgenia Vorontsova
Financement: European Commission (ERC)
Date: September 2018 - September 2023

Trade-opt training data-driven experts in optimization
CORE coordinator: François Glineur
Financement: European Commission (ITN Marie-Curie H2020)
Date: June 2020 - May 2024

Application of big data digital technologies in the healthcare sector
CORE coordinator: François Glineur
Financement: Région wallonne
Date: August 2017 - July 2021

Structured low-rand and matrix/tensor approximation: Numerical optimization-based algorithms and applications
CORE coordinator: François Glineur
Financement: FNRS (EOS)
Date: January 2018 - December 2021

Models and algorithms for the active management of the European electricity grid
CORE coordinator: Anthony Papavasiliou
CORE researcher: Quentin Lété
Financement: FNRS (Aspirant)
Date: October 2019 - September 2021

Optimizing over unrooted binary tree: Bridging the gap between phylogenetics and coding theory
CORE coordinator: Daniele Catanzaro
CORE researcher: Martin Frohn
Financement: UCLouvain (FSR)
Date: October 2019 – September 2021

Computing the exact performance of black-box optimization methods: An automated tool to improve understanding and design better algorithms
CORE coordinator: François Glineur
Financement: UCL Louvain and KU Leuven (KU Leuven Global PhD pertainships 2020 with UCLouvain)
Date: October 2020 - September 2022
Microeconomic Theory

Expectations and Social Influence Dynamics in Economics (ExSIDE)
CORE coordinator: Vincent Vannetelbosch
CORE researchers: Chenghong Luo, Mariam Nanumyam and Akylai Taalaibekova
Financement: European Commission
Date: January 2017 - December 2020

Individual Welfare Analysis based on Behavioral Economics (IWABE)
CORE coordinators: Johannes Johnen and François Maniquet
CORE researcher: Seyed Hassan Nosratabadi
Financement: FNRS (EOS)
Date: January 2018 - December 2021

Public Economic Theory

Social preferences and the persistence of poverty
CORE coordinator: François Maniquet
Financement: FNRS (PDR)
Date: October 2016 - September 2020

Economic inequality, political polarization and voter turnout
CORE coordinator: François Maniquet
CORE researcher: Erika Pini
Financement: FNRS (Aspirant)
Date: October 2018 - September 2022

Regional and Geographical Sciences

Impact of green/blue spaces on specific morbidity and cause-specific mortality in Belgium
CORE coordinator: Isabelle Thomas
CORE researcher: Sonia Trabelsi
Financement: BELSPO (BRAIN)
Date: July 2015 - December 2019

Nature impact on mental health distribution
CORE coordinator: Isabelle Thomas
CORE researchers: Madeleine Guyot and Sonia Trabelsi
Financement: BELSPO (BRAIN)
Date: July 2017 - December 2021

Following trucks with GPS data: Measuring and modelling routes for a spatially smarter and more equitable taxation
CORE coordinator: Isabelle Thomas
CORE researcher: Arnaud Adam
Financement: FNRS (PDR)
Date: December 2018 - November 2020

Presupply Research Project
CORE coordinators: Philippe Chevalier and Isabelle Thomas
CORE researcher: Henry Dehaybe
Financement: Logistics in Wallonia and N-Side
Date: December 2016 - December 2020
Social Choice and Welfare

**Individual Welfare Analysis based on Behavioral Economics (IWABE)**
CORE coordinators: Johannes Johnen and François Maniquet  
CORE researcher: Seyed Hassan Nosratabadi  
Financement: FNRS (EOS)  
Date: January 2018 - December 2021

**Social preferences and the persistence of poverty**
CORE coordinator: François Maniquet  
Financement: FNRS (PDR)  
Date: October 2016 - September 2020

Supply Chain

**Kronos Group Chair in strategic sourcing and procurement**
CORE coordinators: Per Agrell, Constantin Blome and Philippe Chevalier  
Financement: Kronos Group Belgium  
Date: September 2017 - September 2020