

CORE

ANNUAL REPORT 2019 – 2020



Econometrics



Economics



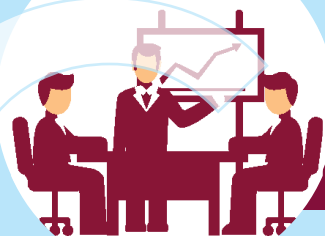
Operations Research



Quantitative
Geography

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Presentation



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 Yurii 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



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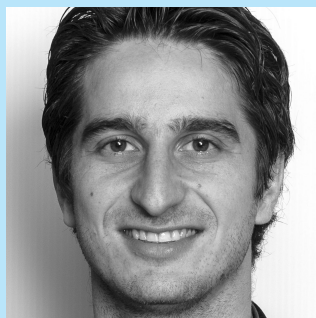
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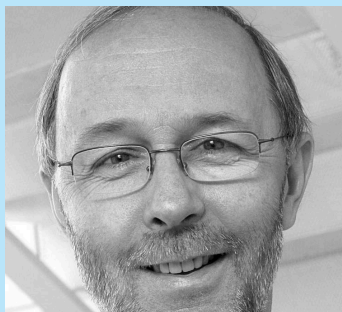


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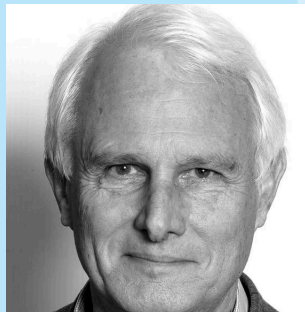


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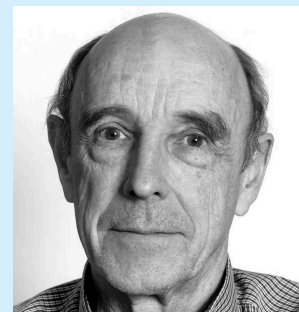
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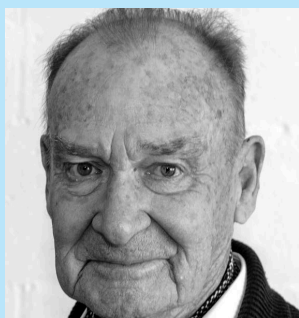
Luc Bauwens
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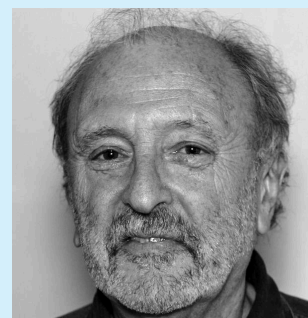
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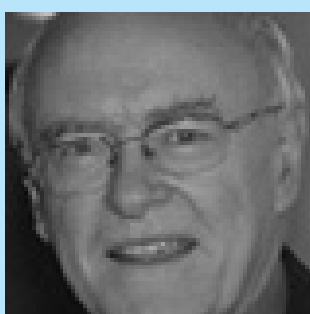
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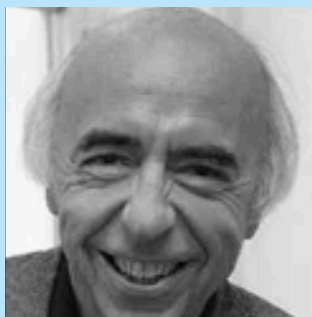
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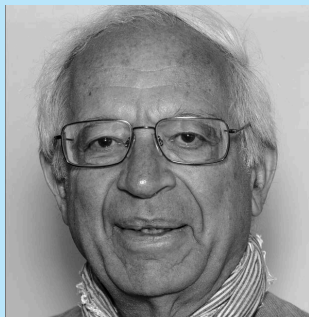
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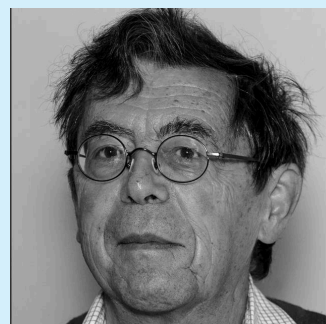
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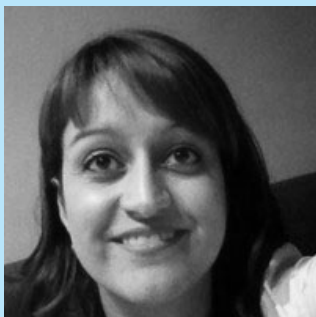
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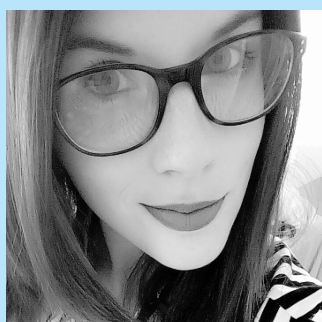
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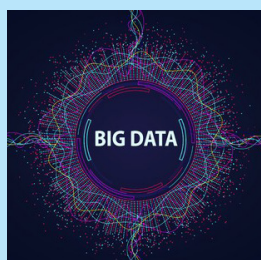
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Topics

TOPICS



Behavioral Economics



Big Data



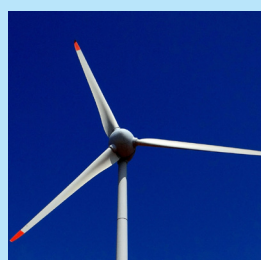
Digital Economics



Econometrics



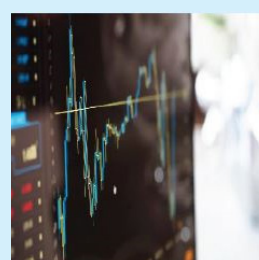
Education



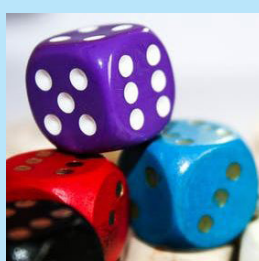
Energy



Environmental Economics



Financial Economics



Game Theory



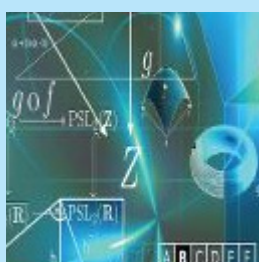
Health



Industrial Organisation



Macroeconomics



Mathematical Optimization



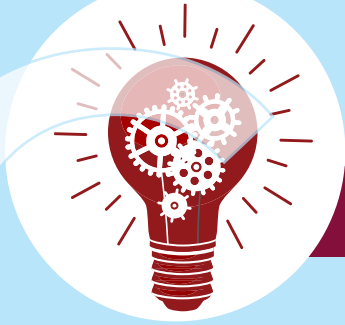
Microeconomics Theory



Pension

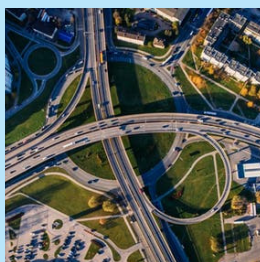


Public Economic Theory



Topics

TOPICS



**Regional & Geographical
Sciences**



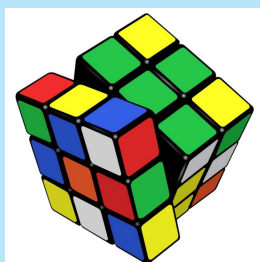
**Social Choice &
Welfare
Economics**



Supply Chain



**Transport
Economics**



Miscellaneous



TOPICS | Behavioral Economics

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Marisa Hidalgo-Hidalgo, Natalia Jiménez and **Dunia Lopez-Pintado**. Social influence and position effects. Working Paper 10.03, Department of Economics, Universidad Pablo de Olavide, 2019.

Johannes Johnen and David Ronayne. The only dance in town: Unique equilibrium in a generalized model of price competition. Discussion Paper 874, Department of Economics, University of Oxford, 2019.

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TOPICS | Big Data



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3070. Olivier Finance, **Arnaud Adam**, Jonathan Jones et **Isabelle Thomas**. Révéler la polarisation économique d'une ville à partir de traces GPS de camions. Le cas de Liège. *Bulletin de la Société Géographique de Liège*, 72, 95-114, 2019.

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3112. **Arnaud Adam**, **Gaëtan Montero**, Olivier Finance, Ann Verhetsel and **Isabelle Thomas**. Revisiting urban models with information and communication technology data? Some examples of Brussels. Chapter 11 in P. Plaut and D. Shach-Pinsly (eds.), *Digital Social Networks and Travel Behaviour in Urban Environments*. London:Routledge, 186-199, 2019.

3130. **Paul Belleflamme**, Wing Man Wynne Lam and Wouter Vergote. Competitive imperfect price discrimination and market power. *Marketing Science*, online, 2020.

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Michael T. Schaub, **Jean-Charles Delvenne**, Renaud Lambiotte and Mauricio Narahona. Structured networks and coarse-grained descriptions. A dynamic perspective. In P. Doreian, V. Batagelj and A. Ferligoj (eds.), *Advances in Network Clustering and Blockmodeling*. John Wiley & Sons, Ltd, 333-362, 2019.

Martin Rosvall, **Jean-Charles Delvenne**, Michael T. Schaub and Renaud Lambiotte. Different approaches to community detection. In P. Doreian, V. Batagelj and A. Ferligoj (eds.), *Advances in Network Clustering and Blockmodeling*. John Wiley & Sons (Ltd), 105-119, 2019.



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3075. Paul Belleflamme and Martin Peitz. The competitive impacts of exclusivity and price transparency in markets with digital platforms. *Concurrences*, 1, 2-7, 2020.

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2019/19. Paul Belleflamme and Martin Peitz. The competitive impacts of exclusivity and price transparency in markets with digital platforms

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2020/24. Paul Belleflamme and Martin Peitz. Network goods, price discrimination, and two-sided platforms.

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3066. Maciej Augustyniak, **Luc Bauwens** and Arnaud Dufays. A new approach: The factorial hidden Markov volatility model. *Journal of Business & Economic Statistics*, 696-709, 2019.

3067. Damiano Brigo, Monique Jeanblanc and **Frédéric Vrina**. SDEs with uniform distributions: Peacocks, conic martingales and mean reverting uniform diffusions. *Stochastic Processes and their Applications*, 130(7), 3895-3919, 2020.

3087. Zakaria Sorgho and **Joe Tharakan**. Assessing the impact of unilateral trade policies EBA and AGOA on African beneficiaries' exports using matching econometrics. *The World Economy*, 42, 3086-3118, 2019.

3128. **Luc Bauwens** and Edoardo Atranto. Nonlinearities and regimes in conditional correlations with different dynamics. *Journal of Econometrics*, vol. 217, no. 2, p 496-522, online, 2020.

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Abdelaati Daouia, Jean-Pierre Florens and **Léopold Simar**. Robustified expected maximum production frontiers. *Econometric Theory*, 2020.

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3083. Andreu Arenas and **Jean Hindriks**. Intergenerational mobility and unequal school opportunity. *The Economic Journal*, online, 2020.

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2020/24. Paul Belleflamme and Martin Peitz. Network goods, price discrimination, and two-sided platforms.

Media

Jean Hindriks. Excellente en gelijke kansen sporen samen. *De Tijd*, September 5, 2019.

Jean Hindriks. Enseignant, un métier moins pénible qu'infirmier. *Sudpresse*, 30 octobre 2019

Jean Hindriks. Nos élèves de moins en moins bon en lecture. *Canal Z*, 3 décembre 2019.

Jean Hindriks. Etude Pisa. *RTBF*, 4 décembre 2019.

Jean Hindriks. Enseignement en état de choc, besoin d'un électrochoc. *La Libre*, 5 décembre 2019.

Jean Hindriks. De la nouvelle matière avant la rentrée. *RTL : C'est pas tous les jours dimanche*, 6 avril 2020.

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Jean Hindriks. Rattraper le retard avant la rentrée ? Les opinions divergent. *La Nouvelle Gazette*, 25 mai 2020.

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3110. **Ilyès Mezghani** and **Anthony Papavasiliou**. A mixed integer second order cone program for transmission distribution system co-optimization. *2019 IEEE Milan PowerTech*, 2019.

3113. Benoît Martin, Baptiste Feron, Emmanuel De Jaeger, **François Glineur** and Antonello Monti. Peak shaving: A planning alternative to reduce investment costs in distribution systems? *Energy Systems*, 10, 871-887, 2019.

3120. **Axel Gautier** and Julien Jacqmin. PV adoption: The role of distribution tariffs under net metering. *Journal of Regulatory Economics*, 57, 53-73, 2020.

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2020/12. **Jean Hindriks** and **Valerio Serse**. The incidence of VAT reforms in electricity markets: Evidence from Belgium.

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

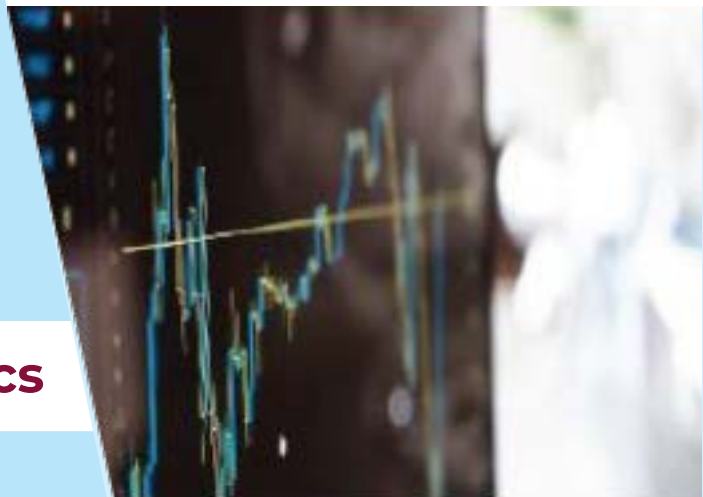


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Henry Tulkens. *Economics, Game Theory and International Environmental Agreements.* The Ca'Foscari Lectures. Singapore and London: World Scientific Publishing Co, 2019.

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Bart Jourquin. Eurostar et Thalys : un projet de rapprochement qui surfe sur la vague écoresponsable. *Vivre Ici* et *RTBF Info*, 24 septembre 2019.



TOPICS | Financial Economics

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Anthony Bellotti, Damiano Brigo, Paolo Gambetti and **Frédéric Vrins**. Forecasting recovery rates on non-performing loans with machine learning. *International Journal of Forecasting*, vol. 37, no. 1, p.428-444, online, 2020.

Damiano Brigo, Monique Jeanblanc and **Frédéric Vrins**. SDES with uniform distributions: Peacocks, conic martingales and mean reverting uniform diffusions. *Stochastic Processes and Their Applications*, 130(7), 3895-3919 (2020).

Leonardo Iania, Anne-Florence Allard and Kristien Smedts. Stock-bond return correlations: Moving away from «one-frequency-fits-all» by extending the DCC-MIDAS approach. *International Review of Financial Analysis*, online, 2020.

Nathan Lassance and **Frédéric Vrins**. Minimum Rényi entropy portfolios. 10.1007/s10479-019-03364-2. *Annals of Operations Research*, 2019.

Frédéric Vrins. Advances in credit risk modeling and management. <https://orcid.org/0000-0003-1941-0416>. *Risks*, 2019.

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Anthony Bellotti, Damiano Brigo, Paolo Gambetti and **Frédéric Vrins**. Forecasting recovery rates on non-performing loans with machine learning. LFIN Working Paper 2020/2, UCLouvain, 2020.

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Nathan Lassance and **Frédéric Vrins**. Robust portfolio selection using sparse estimation of component tensors. LFIN Working Paper 2020/3, UCLouvain, 2020.

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Book

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TOPICS | Game Theory

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Péter Bayer, **P. Jean-Jacques Herings**, Ronald Peeters and Frank Thuijsman. Adaptive learning in weighted network games. *Journal of Economic Dynamics & Control*, 105, 250-264, 2019.

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Book

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P. Jean-Jacques Herings and Laszlo A. Koczy. The equivalence of the minimal dominant set and the myopic stable set for coalition function form games. IEHAS Discussion Paper 2022, Institute of Economics, Centre for Economic and Regional Studies, 2020.



TOPICS | Health



CORE Reprints

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3111. Carole Nagnant, Cyril Barbezange, Laurence Dedeken, Tatiana Besse-Hammer, **Isabelle Thomas**, Bhavna Mahadeb, André Efira, Alice Ferster and Francis Corazza. Alteration of humoral, cellular and cytokine immune response to inactivated influenza vaccine in patient with Sickle Cell Disease. *Plos One*, 14(10):e0223991, 2019.

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2019/32. Philippe De Donder and **Marie-Louise Leroux**. Long term care insurance with state-dependent preferences.

Working Papers and Manuscripts

Philippe De Donder and **Marie-Louise Leroux**. Long term care insurance with state-dependent preferences. CESifo Working Paper no. 8017, 2020.

Media

Jean Hindriks. Pensions: ces métiers qui réduisent l'espérance de vie au travail. *Le Soir*, 21 novembre 2019.

Jean Hindriks. Le déconfinement, LN24, 27 avril 2020. (COVID19).

Jean Hindriks. Quel va être le coût du coronavirus pour l'Etat. RTBF : On n'est pas des pigeons, 2 mai 2020. (COVID19).

Jean Hindriks. Plans de relance, mode d'emploi. Moustique, 20 mai 2020. (COVID19)

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

3074. Paul Belleflamme and Martin Peitz. Price disclosure by two-sided platforms. *International Journal of Industrial Organization*, Vol. 67, p. 102529, online, 2019.

3075. Paul Belleflamme and Martin Peitz. The competitive impacts of exclusivity and price transparency in markets with digital platforms. *Concurrences*, 1, 2-7, 2020.

3098. Johannes Johnen. Dynamic competition in deceptive markets. *Rand Journal of Economics*, 51(2), 375-401, 2020.

3115. José Miguel Quesada Perez, Jean-Sébastien Tancrez and Jean-Charles Lange. Express shipment service network design with complex routes. *Computers and Operations Research*, 114, 104810, 2020.

3116. Claude d'Aspremont and Rodolphe Dos Santos Ferreira. Exploiting separability in a multisectoral model of oligopolistic competition. *Mathematical Social Sciences*, online, 2020.

3124. Paul Belleflamme and Valeria Forlin. Endogenous vertical segmentation in a Cournot oligopoly. *Journal of Economics*, online, 2020.

3130. Paul Belleflamme, Wing Man Wynne Lam and Wouter Vergote. Competitive imperfect price discrimination and market power. *Marketing Science*, online, 2020.

Published Papers

Thomas Demuynck, **P. Jean-Jacques Herings**, Riccardo D. Saulle and Christian Seel. Bertrand competition with asymmetric costs: A solution in pure strategies. *Theory and Decision*, 87, 147-154, 2019.

Pedro Mendi, Rafael Moner-Colonques and **Jose J. Sempere-Monerris**. Cooperation for innovation and technology licensing: Empirical evidence from Spain. *Technological Forecasting & Social Change*, 154, 119976, 2020.

CORE Discussion Papers

2020/01. Axel Gautier and Joe Lamesch. Mergers in the digital economy.

2020/09. Claude d'Aspremont and Rodolphe Dos Santos Ferreira. Exploiting separability in a multisectoral model of oligopolistic competition.

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

2020/24. Paul Belleflamme and Martin Peitz. Network goods, price discrimination, and two-sided platforms.

Working Papers and Manuscripts

Johannes Johnen and David Ronayne. The only dance in town: Unique equilibrium in a generalized model of price competition. Discussion Paper 874, Department of Economics, University of Oxford, 2019.



TOPICS | Macroeconomics

CORE Reprints

3086. Elisa Faraglia, Albert Marcet, **Rigas Oikonomou** and Andrew Scott. Government debt management: The long and the short of it. *Review of Economic Studies*, 86, 2554-2604, 2019.

CORE Discussion Papers

2020/20. Julio Davila. Bequests or education.



TOPICS | Mathematical Optimization



CORE Reprints

3065. Daniel De Wolf and **Yves Smeers**. Generalized derivatives of the optimal value of a linear program with respect to matrix coefficients. *European Journal of Operational Research*, online, 2019.

3082. Ignacio Aravena and **Anthony Papavasiliou**. Asynchronous Lagrangian scenario decomposition. *Mathematical Programming Computation*, 2020.

3090. Michele Conforti and **Laurence A. Wolsey**. «Facet» separation with one linear program. *Mathematical Programming A*, 178, 361-380, 2019.

3096. Daniele Catanzaro, Raffaele Pesenti and **Laurence A. Wolsey**. On the balanced minimum evolution polytope. *Discrete Optimization*, 36, 100570, 2020.

3097. Daniele Catanzaro, **Martin Frohn** and Raffaele Pesenti. An information theory perspective on the balanced minimum evolution problem. *Operations Research Letters*, 48, 362-367, 2020.

3099. Anton Rodomanov and **Yurii Nesterov**. Smoothness parameter of power of Euclidean norm. *Journal of Optimization Theory and Applications*, 185, 303-326, 2020.

3100. Laurence A. Wolsey and Hande Yaman. Convex hull results for generalizations of the constant capacity single node flow set. *Mathematical Programming A*, online 2020

3102. Guillaume O. Berger, Pierre-Antoine Absil, Raphaël Jüngers and **Yurii Nesterov**. On the quality of first-order approximation of functions with Hölder continuous gradient. *Journal of Optimization Theory and Applications*, 185, 17-33, 2020.

3110. Ilyès Mezghani and **Anthony Papavasiliou**. A mixed integer second order cone program for transmission distribution system co-optimization. *2019 IEEE Milan PowerTech*, 2019.

3115. José Miguel Quesada Perez, **Jean-Sébastien Tancrez** and Jean-Charles Lange. Express shipment service network design with complex routes. *Computers and Operations Research*, 114, 104810, 2020.

3126. Geovani N. Grapiglia and **Yurii Nesterov**. On inexact solution of auxiliary problems in tensor methods for convex optimization. *Optimization Methods and Software*, p. 1-26, online, 2020.

3129. Bartosz Filipecki and **Mathieu Van Vyve**. Stronger path-based extended formulation for the Steiner tree problem. *Networks*, 75(1), 3-17, 2020.

Published Papers

Adel Hatami-Marbini. Benchmarking with network DEA in a fuzzy environment. *RAIRO-Operations Research*, 53(2), 687-703, 2019.

Adel Hatami-Marbini and Mehdi Toloo. Data envelopment analysis models with ratio data: A revisit. *Computers & Industrial Engineering*, 133, 331-338, 2019.

Adel Hatami-Marbini and Saber Saati. Measuring performance with common weights: Network DEA. *Neural Computing and Applications*, 2019.

Mehdi Toloo, Esmaeil Keshavarz and **Adel Hatami-Marbini**. Selecting data envelopment analysis models: A data-driven application to EU countries. *Omega*, 2020.

CORE Discussion Papers

2019/20. Dieter Weninger and **Laurence A. Wolsey**. Benders' algorithm with (mixed)-integer subproblems.

2019/21. **Nikita Doikov** and **Yurii Nesterov**. Local convergence of tensor methods

2019/22. **Yurii Nesterov** and **Mihai I. Florea**. Gradient methods with memory.

2019/23. **Yurii Nesterov**. Inexact basic tensor methods.

2019/26. **Mihai I. Florea**. Exact gradient methods with memory.

2019/27. **Nikita Doikov** and **Yurii Nesterov**. Contracting proximal methods for smooth convex optimization.

2019/28. **Geovani Nunes Grapiglia** and **Yurii Nesterov**. Tensor methods for minimizing convex functions with Hölder continuous higher-order derivatives.

2019/29. **Geovani Nunes Grapiglia** and **Yurii Nesterov**. Tensor methods for finding approximate stationary points of convex functions.

2019/30. **Geovani Nunes Grapiglia** and **Yurii Nesterov**. On inexact solution of auxiliary problems in tensor methods for convex optimization.

2020/06. **Anton Rodomanov** and **Yurii Nesterov**. Greedy quasi-Newton methods with explicit superlinear convergence.

2020/07. **Yurii Nesterov**. Superfast second-order methods for unconstrained convex optimization.

2020/08. **Yurii Nesterov**. Inexact accelerated high-order proximal-point methods.

2020/10. **Yurii Nesterov**. Inexact high-order proximal-point methods with auxiliary search procedure.

2020/11. **Anton Rodomanov** and **Yurii Nesterov**. Rates of superlinear convergence for classical quasi-Newton methods.

2020/13. **Anton Rodomanov** and **Yurii Nesterov**. New results on superlinear convergence of classical quasi-Newton methods.

2020/22. **Yurii Nesterov**. Online prediction of COVID19 dynamics. Belgian case study.

2020/23. **Nikita Doikov** and **Yurii Nesterov**. Convex optimization based on global lower second-order models.

2020/25. **Yurii Nesterov**. Online analysis of epidemics with variable infection rate.



TOPICS | Microeconomic Theory



CORE Reprints

3116. **Claude d'Aspremont** and Rodolphe Dos Santos Ferreira. Exploiting separability in a multisectoral model of oligopolistic competition. *Mathematical Social Sciences*, online, 2020.

CORE Discussion Papers

2019/32. Philippe De Donder and **Marie-Louise Leroux**. Long term care insurance with state-dependent preferences.

2020/09. **Claude d'Aspremont** and Rodolphe Dos Santos Ferreira. Exploiting separability in a multisectoral model of oligopolistic competition.

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

2020/20. **Julio Davila**. Bequests or education.

2020/24. **Paul Belleflamme** and Martin Peitz. Network goods, price discrimination, and two-sided platforms.

Working Papers and Manuscripts

Marisa Hidalgo-Hidalgo, Natalia Jiménez and **Dunia Lopez-Pintado**. Social influence and position effects. Working Paper 10.03, Department of Economics, Universidad Pablo de Olavide, 2019.



TOPICS | Pension

CORE Reprints

3063. Pierre Devolder et **Jean Hindriks**. Réforme des pensions: une urgence absolue. *Pyramides*, 31/32, 233-260, 2019.

3064. Arno Baurin et **Jean Hindriks**. Quels sont les métiers pénibles. *Regards économiques*, 151, 2019.

3079. Arno Baurin et **Jean Hindriks**. Financement des pensions et le compte individuel pension. *Revue belge de sécurité sociale*, 2019(2), 333-359, 2019.

3108. Justina Klimaviciute, Harun Onder and **Pierre Pestieau**. The inherited inequality: How demographic aging and pension reforms can change the intergenerational transmission of wealth. *German Economic Review*, 20(4), e872-e891, 2019.

3121. Erik Schokkaert, Pierre Devolder, **Jean Hindriks** and Frank Vandenbroucke. Towards an equitable and sustainable points system: A proposal for pension reform in Belgium. *Journal on Pension Economics and Finance*, 19(1), 49-79, 2020.

CORE Discussion Papers

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

Media

Jean Hindriks. Pensions: Et si l'allongement de la carrière n'était pas la seule solution. *Le Soir*, 21 novembre 2019.



TOPICS | Public Economic Theory

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3106. **Claude d'Aspremont** and Jacques Crémer. Some remarks on Bayesian mechanism design. In W. Trockel (ed.), *Social Design. Social Studies in Economic Design*. Cham: Springer, 85-98, 2019.

3107. Mathieu Lefebvre et **Pierre Pestieau**. Etat providence et fractures sociales. Nouveaux défis. *Regards économiques*, 152, 2019.

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Begoña Cabeza and **Koen Decancq**. Beliefs about the role of effort and luck during the great recession in Spain. In K. Decancq and P. Van Kerm (eds.), *What Drives Inequality? Research on Economic Inequality*, 27, 139-153. Bradford: Emerald Publishing, 2019.

Koen Decancq and Veerle Van Loon. Is successful aging declining with age? The age of profile of objective, subjective, and preference-based measures of successful aging in Europe. *Journal of Aging Science*, 7:215, 2019.

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Henry Tulkens. *Economics, Game Theory and International Environmental Agreements*. The Ca'Foscari Lectures. Singapore and London: World Scientific Publishing Co, 2019.

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Emmanuelle Augeraud-Veron, Francisco Maruhenda and **Pierre Picard**. Local social interaction and urban equilibria. CREA Discussion Paper 19-17, Université du Luxembourg, 2019.

Robin Boadway and **Pierre Pestieau**. Over the top: Why an annual tax for Canada is unnecessary? C.D. Howe Institute Commentary no. 546, 2019.

P. Jean-Jacques Herings, Riccardo Saulle and Christian Steel. The last will be first, and the first last: Segregation in societies with relative payoffs concerns. Memorando 11, Graduate School of Business, Universiteit Maastricht, 2020.

Pierre Picard and Harris Selod. Customary land conversion and the formation of African city. Policy Research Working Paper Series 9192, The World Bank, 2020.

Media

Jean Hindriks. Quel est l'état de santé de l'état Belgique et quel remède lui appliquer ? *RTBF La Première*, 4 septembre 2019.

Jean Hindriks. Est-il possible de faire un plan d'investissements sans nouvelle taxe et de tendre vers l'équilibre budgétaire en 2024 ? *RTBF La Première – Soir Première*, 10 septembre 2019.

Jean Hindriks. Les inégalités d'inflation en fonction du revenu différent selon les régions. *Le Soir*, 3 mars 2020.

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TOPICS | Regional and Geographical Sciences

CORE Reprints

3069. Yousra Sidqi, **Isabelle Thomas**, Pierre Frankhauser and Nicolas Retière. Comparing fractal indices of electric networks to roads and buildings: The case of Grenoble (France). *Physica A*, 531, 121774, 2019.

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3071. Lena Sanders, **Isabelle Thomas** and Céline Vacchiani-Marcuzzo. On the survival of butterflies in the jungle of urban systems. Chapter 9 in D. Pumain (ed.), *Theories and Models of Urbanization. Geography, Economics and Computing Sciences*. Lecture Notes in Morphogenesis, 151-167, 2020.

3077. Laura Lauwers, **Sonia Trabelsi**, Ingrid Pelgrims, Hilde Bastiaens, Eva de Clercq, Ariane Guilbert, **Madeleine Guyot**, Michael Leone, Tim Nawrot, An Van Nieuwenhuyse, Roy Remmen, Nelly Saenen, **Isabelle Thomas** and Hans Keune. Urban environment and mental health: The NAMED project, protocol of a mixed-method study. *BMJ Open*, 10:031963, 2020.

3080. Yérali Gandica, Adeline Decuyper, Christophe Cloquet, **Isabelle Thomas** and **Jean-Charles Delvenne**. Measuring the effect of node aggregation on community detection. *EPJ Data Science*, 9:6, 2020.

3089. Stef Proost and **Jacques-François Thisse**. What can be learned from spatial economics. *Journal of Economic Literature*, 57(3), 575-643, 2019.

3109. Toshitaka Gokan, Sergey Kichko and **Jacques-François Thisse**. How do trade and communication costs shape the spatial organization of firms? *Journal of Urban Economics*, 113, 103191, 2019.

3111. **Arnaud Adam**, **Gaëtan Montero**, Olivier Finance, Ann Verhetsel and **Isabelle Thomas**. Revisiting urban models with information and communication technology data? Some examples of Brussels. Chapter 11 in P. Plaut and D. Shach-Pinsly (eds.), *Digital Social Networks and Travel Behaviour in Urban Environments*. London:Routledge, 186-202, 2019.

3125. Pascal Mossay, **Pierre Picard** and Takatoshi Tabuchi. Urban structures with forward and backward linkages. *Regional Science and Urban Economics*, 83, 103522, 2020.

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Arnaud Adam, Olivier Finance and **Isabelle Thomas**. Dans quelle mesure les espaces de vie coïncident-ils avec les frontières administratives de la Région Bruxelloise ? Policy Brief, recommandations dans le cadre du programme «Prospective Research», 2019.

Carl Gain, Hans R.A. Koster, Fabien Moizeau and **Jacques-François Thisse**. Income sorting across space: The role of amenities and commuting costs. Working Paper 302579, Institut National de la Recherche Agronomique, 2020.

Media

Bart Jourquin. Brugeoise et Nivelles : ça bouge enfin. *La Dernière Heure*, 29 septembre 2019.

Michel de Mulenaere et **Isabelle Thomas.** Comment repenser notre mobilité ? *Le Soir*, 7 juillet 2020.



TOPICS | Social Choice and Welfare Economics



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3093. Koen Decancq and Alexander Michiels. Measuring successful aging with respect for preferences of older persons. *Journal of Gerontology: Social Sciences*, 74(2), 364-372, 2019.

3105. Marc Fleurbaey and **François Maniquet**. Well-being measurement with non-classical goods. *Economic Theory*, 68(3), 765-786, 2019.

3114. Aditi Dimri and **François Maniquet**. Income poverty measurement in India: Defining group-specific poverty lines or taking preferences into account? *Journal of Economic Inequality*, 18(2), 137-156, 2020.

3117. Pierre Dehez and **Victor Ginsburgh**. A propos de la proposition du ministre Koen Geens de donner cinq voix à chaque électeur. *Regards économiques*, Focus 23, 2020.

3119. Koen Decancq. Measuring cumulative deprivation and affluence based on the diagonal dependence diagram. *Metron*, online, 2020.

3122. Dirk Van de gaer and Xavier Ramos. Measurement of inequality of opportunity based on counterfactuals. *Social Choice and Welfare*, online, 2020.

3123. Xavier Ramos and **Dirk Van de gaer**. Is inequality of opportunity robust to the measurement approach? *Review of Income and Wealth*, online, 2020.

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Yukiko Asada and **Erik Schokkaert**. Introduction to the special issue on justice and health: Different perspectives in different disciplines. *Social Justice Research*, 32, 125-136, 2020.

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Koen Decancq, **Erik Schokkaert** and Blanca Zuluaga. Implementing the capability approach with respect for individual valuations: An illustration with Colombian data. In E. Chiappero-Martinetti, D. Osmani and M. Qizilbash (eds.), *Cambridge University Press Handbook of the Capability Approach*. Cambridge: Cambridge University Press.

Koen Decancq and Veerle Van Loon. Is successful aging declining with age? The age profile of objective, subjective and preference-based measures of successful aging in Europe. *Journal of Aging Science*, 7:215, 2019.

Erik Schokkaert. Keeping the flock together. *Journal of Human Development and Capabilities*, 20(3), 347-350, 2020.

Media

Pierre Dehez et Victor Ginsburgh. Donner cinq voix à chaque électeur. *Carte Blanche*, *Le Soir*, 26 décembre 2019.

Book

Koen Decancq and Philippe Van Kerm (eds.). *What Drives Inequality? Research on Economic Inequality*, 27. Bradford: Emerald Publishing, 2019.



TOPICS | Supply Chain



CORE Reprints

3088. Thomas Hacardiaux and **Jean-Sébastien Tancrez**. Assessing the environmental benefits of horizontal cooperation using a location inventory-model. *Central European Journal of Operations Research*, Vol.28, p. 1363-1387, online, 2019.

3095. Adel Hatami-Marbini, Siavash Hekmat and Per J. Agrell. A strategy-based framework for supplier selection: A grey PCA-DEA approach. *Operational Research*, online, 2020.

3115. José Miguel Quesada Pérez, **Jean-Sébastien Tancrez** and Jean-Charles Lange. Express shipment service network design with complex routes. *Computers and Operations Research*, 114, 104810, 2020.

3127. **Jean-Sébastien Tancrez**. A decomposition method for assembly/disassembly systems with blocking and general distributions. *Flexible Services and Manufacturing Journal*, 22, 272-296, 2020.

3131. Matthias Thürer, Ivan Tomašević, Mark Stevenson, **Constantin Blome**, Steven Melnyk, Hing Kai Chan and George Q. Huang. A systematic review of China's belt and road initiative: Implications for global supply chain management. *International Journal of Production Research*, 58(8), 2436-2453, 2020.

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Haris Aslam, **Constantin Blome**, Samuel Roscoe and Tashfeen Mehmood Azhar. Determining the antecedents of dynamic supply chain capabilities. *Supply Chain Management: An International Journal*, 25(4), 427-442, 2020.

Arash Azadegan, Ravi Srinivasan, **Constantin Blome** and Kayhan Tajeddini. Learning from near-miss events: An organizational learning perspective on supply chain disruption response. *International Journal of Production Economics*, 216, 215-226, 2019.

Peter S. Hofman, **Constantin Blome**, Martin C. Schleper and Nachiappan Subramanian. Supply chain collaboration and eco-innovations: An institutional perspective from China. *Business Strategy and the Environment*, online, 2020.

Yan Jian, Fu Jia, **Constantin Blome** and Lujie Chen. Achieving sustainability in global sourcing: Towards a conceptual framework. *Supply Chain Management: An International Journal*, 25(1), 35-60, 2019.

Samuel Roscoe, Dominick Eckstein, **Constantin Blome** and Matthias Goellner. Determining how internal and external process connectivity affect supply chain agility: A life-cycle theory perspective. *Production Planning & Control*, 31(1), 78-91, 2020.

Martin C. Schleper, **Constantin Blome** and Alina Stanczyk. Archetypes of sourcing decision-making: The influence of contextual factors on consensus, argumentation and cabal. *International Journal of Operations and Production Management*. Vol. 40, no.2, p. 117-143. 10.1108/ijopm-07-2017-0397. 2019

Working Papers and Manuscripts

Thomas Hacardiaux, Cristof Defryn, **Jean-Sébastien Tancrez** and Lotte Verdonck. Balancing partner preferences for logistic costs and carbon footprint in a horizontal cooperation. Memorandum 002, Graduate School of Business and Economics, Universiteit Maastricht, 2020.

Prizes and Awards

Constantin Blome. Distinguished Visiting Professor at Xi'an Jiatong University, China.



TOPICS | Transport Economics



CORE Reprints

3085. Bart Jourquin and Michel Beuthe. Cost, transit time and speed elasticity calculations for the European continental freight transport. *Transport Policy*, 83, 1-12, 2020.

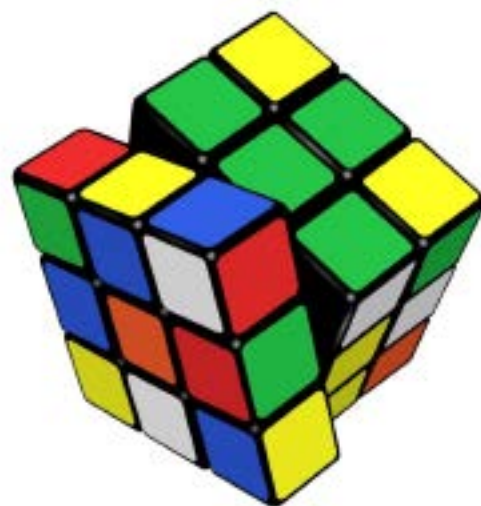
3103. Oscar Alvarez-Sanjaime, Pedro Cantos-Sanchez, Rafael Moner-Colonques. A three stage competition game in an air transport network under asymmetric valuation of flight frequencies. *Economics of Transportation*, 21:100141, 2020.

Media

Bart Jourquin. La gratuité des transports en commun, est-ce possible aussi en Belgique ? *RTBF Matin Première*, 2 mars 2020.



TOPICS | Miscellaneous



CORE Reprints

3118. Victor Ginsburgh and Shlomo Weber. The economics of language. *Journal of Economic Literature*, 58, 348-404, 2020. (Language)

Other Published Papers

Cédric Ceulemans, **Victor Ginsburgh**, Juan Prieto-Rodriguez and Sheila Weyers. One hundred years of solitude. Bestsellers in the United States, 1900-1999. *Poetics*, 79, 101422, 2020. (Cultural Economics)

Gianmaria Falasco, Massimiliano Esposito and **Jean-Charles Delvenne**. Unifying thermodynamic uncertainty relations. *New Journal of Physics*, 22:053046, 2020. (Statistical Physics)

Olivier Gergaud and **Victor Ginsburgh**. Using google trends to assess cultural events. In R. Towse (ed.), *A Handbook of Cultural Economic*, 3rd ed. Cheltenham: Edward Elgar Publishing, 266-275, 2020. (Cultural Economics)

Victor Ginsburgh and Clare McAndrew. Artists' resale rights. In R. Towse (ed.), *A Handbook of Cultural Economic*, 3rd ed. Cheltenham: Edward Elgar Publishing, 56-65, 2020. (Cultural Economics)

Victor Ginsburgh and Stamos Metsidakis. On Rimbaud's 'Vowels,' again: Vowels or colours? *Athens Journal of Philology*, 6, 225-234, 2019. (Language)

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

Victor Ginsburgh and Shlomo Weber. How economists look at languages. In S. Mufwene and C. Vigouroux (eds.), *Cross-perspectives on Language and Economy*. Cambridge: Cambridge University Press, 2020. (Language)



Junior Researchers

Junior Researchers

PhD Students and Junior Researchers

Gautier Attanasi · Daniel Felipe Avila Girardot · Gilles Bertrand · Jacques Cartuyvels · Sefane Çetin · Xuyang Chen · Jehum Cho · Fabrizio Ciotti · Sarah Damai · Julian Das · Pierre de Callatay · Henri Dehaybe · Julien Dewez · Nikita Doikov · Jérôme Dollinger · Thomas Eisfeld · Martin Frohn · Sylvain Funck · Céline Gérard · Madeleine Guyot · Thuc Huan Ha · Thomas Hacadiaux · Manuel Herrera Rodriguez · Quentin Lete · Liana Sabina Luncasu · Chenghong Luo · Ilyès Mezghani · Gaëtan Montero Redondo · Yuting Mou · Mariam Nanumyam · Robin Ng · Rishikesh Parma · Risa Pavia · Wenli Peng · Erika Pini · Niranjana Prasad · José-Miguel Quesada Perez · Anton Rodomanov · Mathieu Sauvenier · Valerio Serse · Yu Sun · Akylai Taalaibekova · Lorenzo Tondi · Tiziano Toniolo · Sonia Trabelsi

Post Doctoral Fellows

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

Masoud Akookhosh, KU Leuven, Belgium
 Arnaud Adam, CORE, UCLouvain, Belgium
 Mihai Florea, Aalto University, USA
 Geovani Nunes Grapiglia, Federal University of Parana, Brazil
 Mushin Li, Indiana University, Bloomington, USA
 Elizaveta Lukmanova, National Bank of Belgium
 Seyed Hassan Nosratabadi, Rutgers University, USA
 Evgeniya Vorontsova, Université Grenoble Alpes, France
 Yi Zhu, Università Politecnica delle Marche (Italy)

Completed PhD Dissertations

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

Risa Pavia. *Corporate taxation: Evasion, incentives, and the shadow economy.* September 23, 2019.

Supervisors: Susana Peralta and **Jean Hindriks**.

Current position: Quantexa, Bruxelles

Sonia Trabelsi. *Geographies of green and health in Belgium: Measurements, opportunities and challenges.* February 28, 2020.

Supervisor: **Isabelle Thomas**. Sciences, UCLouvain.

Current position: Police Fédérale, Bruxelles

Yuting Mou. *Nonlinear pricing schemes for mobilizing residential flexibility in power system.* June 4, 2020.

Supervisors: **Anthony Papavasiliou** and **Philippe Chevalier**. Sciences de l'Ingénieur, UCLouvain.

Current position: VITO/EnergyVille, Hasselt

Akylai Taalaibekova. *Diffusion of opinions and innovations among limitedly forward-looking individuals.* June 6, 2020. Supervisor: Agnieszka Rusinowska and **Vincent Vannetelbosch**. Université Paris 1 Panthéon-Sorbonne and Louvain School of Economics, UCLouvain. Current position: on the job market

José Miguel Quesada Perez. *Express shipment service network design: Multiple hubs, complex routes and demand uncertainty.* June 16, 2020.

Supervisor: **Jean-Sébastien Tancrez**. Louvain School of Management, UCLouvain.

Current position: Fedex Federal Express, Brussels

Chenghong Luo. *Hormophily and segregation in social networks when individuals are (limited) forward-looking.* August 20, 2020.

Supervisors: Pietro Dindo and **Vincent Vannetelbosch**. Ca' Foscari University of Venice and Economics School of Louvain, UCLouvain.

Current position: on the job market

CORE TEAM | Post-Docs Fellows



Masoud Ahookhosh
Postdoctoral researcher

ERC Project : Accelerated convex optimization

Fields of interest: mathematical optimization



Arnaud Adam
Postdoctoral researcher

FNRS Project : Trucks: Geography of traces and places

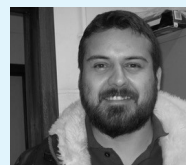
Fields of interest: transport, spatial, big data, networks



Mihai Florea
Postdoctoral researcher

ERC Project : Accelerated convex optimization

Fields of interest: mathematical optimization



Geovani Nunes Grapiglia
Postdoctoral researcher

ERC Project : Accelerated convex optimization

Fields of interest: mathematical optimization



Muxin Li
Postdoctoral researcher

ARC project : Platform and operations in the sharing economy

Fields of interest: industrial organization, digitalization



Elizaveta Lukmanova
Postdoctoral researcher

ARC project : Negative and ultra-low interest rates: Behavioural and quantitative modelling

Fields of interest: monetary policy, international macroeconomics, macroeconometrics



Seyed Hassan Nosratabadi
Postdoctoral researcher

IWABE Project : Individual Welfare Analysis Based on Behavioral Economics

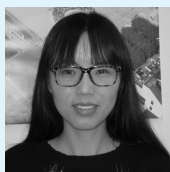
Fields of interest: decision theory and its application to both individual and social choice



Evgeniya Vorontsova
Postdoctoral researcher

ERC Project : Accelerated convex optimization

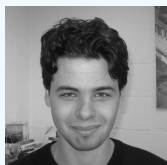
Fields of interest: mathematical optimization



Yi Zhu
Postdoctoral researcher

Fields of interest: environmental health economics,
industrial organization and international business

CORE TEAM | PhD Students



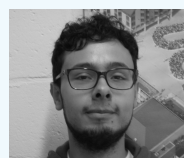
Gautier Attanasi

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



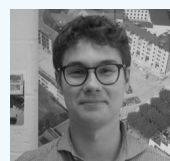
Gilles Bertrand

Louvain School of Engineering

Thesis: Adaptive trading in the continuous intraday market



Supervisor: Anthony Papavasiliou



Jean-Jacques Cartuyvels

Louvain School of Engineering

Thesis: Study on scarcity pricing in Belgium



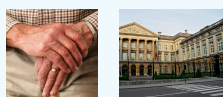
Supervisor: Anthony Papavasiliou



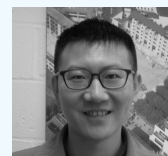
Sefane Cetin

Louvain School of Economics

Thesis: Heterogeneous preferences and risk sharing under different pension systems



Supervisor: Jean Hindriks



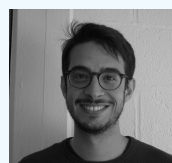
Xyuan Chen

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



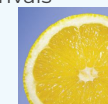
Supervisor: Paul Belleflamme



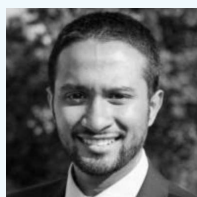
Sarah Damai

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



Julan Das

Louvain School of Management

Thesis: Comparative analysis of external costs on the delivery of e-commerce products

Supervisor: **Bart Jourquin**



Pierre de Callataÿ

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**

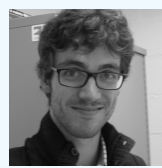


Nikita Doikov

Louvain School of Engineering

Thesis: Development of second order methods for structured optimization problems

Supervisor: **Yurii 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**



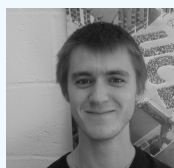
Martin Frohn

Louvain School of Engineering

Thesis: Greed, majorization, and their impact on optimization over lattices unrouted 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



Céline Gérard

Louvain School of Engineering

Thesis: Mobilizing flexible demand in electric power systems through service quality differentiation



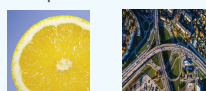
Supervisor: Anthony Papavasiliou



Madeleine Guyot

Department of Geography

Thesis: Urban streetscape and wellbeing: The example of Brussels



Supervisors: Isabelle Thomas and Sophie Vanwambeke



Thuc Huan Ha

Louvain School of Economics

Thesis: Essays on industrial organization and circular economy



Supervisors: Paul Belleflamme and Thierry Bréchet



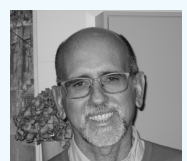
Thomas Hacardiaux

Louvain School of Management

Thesis: Benefits of horizontal cooperation in supply chains



Supervisor: Jean-Sébastien Tancrez



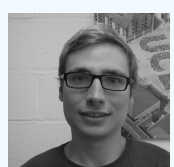
Manuel Herra Rodriguez

Louvain School of Management

Thesis: Three essays on port network optimization and Panama canal models



Supervisor: Per Agrell



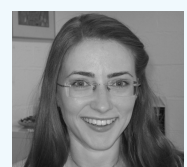
Quentin Lété

Louvain School of Engineering

Thesis: Models and algorithms for the active management of the European electricity



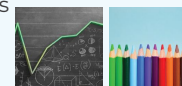
Supervisor: Anthony Papavasiliou



Liana-Sabina Luncasu

Louvain School of Economics

Thesis: Nonparametric estimation of efficiency frontiers with noise in both variables



Supervisor: Sébastien Van Belleghem



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



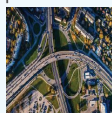
Supervisor: **Anthony Papavasiliou**



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**



Yuting Mou

Louvain School of Engineering

Thesis: Nonlinear



Supervisors: **Paul Belleflamme** and **Thierry Bréchet**



Mariam Nanumyam

Louvain School of Economics
and Universität Bielefeld

Thesis: The impact of opinion
formation on expectations and
market dynamics



Supervisor: **Paul Belleflamme**



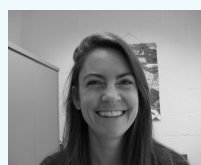
Jui Pin Robin Ng

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**



Erika Pini

Louvain School of Economics

Thesis: Economic inequality, political polarization and voter turnout

Supervisor: **François Maniquet**



Niranjana Prasad

Louvain School of Economics

Thesis: Family planning laws and contraception use in India

Supervisor: **François Maniquet**



José-Miguel Quesada Perez

Louvain School of Management

Thesis: Express shipment service network design: Challenges, advances and robustness

Supervisor: **Jean-Sébastien Tancrèz**



Anton Rodomanov

Sciences de l'Ingénieur

Thesis: Quasi-Newton methods with provable efficiency guarantees

Supervisor: **Yurii Nesterov**



Mathieu Sauvenier

Louvain School of Economics

Thesis: High dimension sparse econometric models

Supervisor: **Sébastien Van Bellegem**



Yu Sun

Louvain School of Economics

Thesis: Sustainable economic growth and uncertainty

Supervisor: **Thierry Bréchet and Sandy Tubeuf**



Akylai Taalaibekova

Louvain School of Economics and Université Paris 1

Thesis: Diffusion of opinions and innovations among limitedly forward-looking individuals

Supervisors: **Vincent Vannetelbosch** and Michael Grabisch Peralta



Lorenzo Tondi

Louvain School of Economics

Thesis: Optimal copyright duration

Supervisor: **Paul Belleflamme**





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

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	George Nemhauser, Georgia University of Technology, Atlanta, USA
Paul Champsaur, Arcepts, France	Dimitri Paolini, Università degli Studi di Sassari, Italy
Bernard Cornet, Université Paris 1, France	Yves Pochet, PURATOS, Dilbeek, Belgium
Koen Decancq, Universiteit Antwerpen, Belgium	Heracles Polemarchakis, University of Warwick, United Kingdom
Jean-Charles Delvenne, ICTEAM, UCLouvain, Belgium	Ernesto San Martin, Pontificia Universidad Católica de Chile, Santiago, Chile
Axel Gautier, Université de Liège, Belgium	Erik Schokkaert, KU Leuven, Belgium
Michel Goemans, Massachusetts Institute of Technology, Cambridge, USA	Jose J. Monerris, Universidad de Valencia, Spain
Adel Hatami-Mabini, De Monfort University, United Kingdom	Jean-François Richard, University of Pittsburgh, USA
Elhanan Helpman, Harvard University, USA	Vladimir Shikhman, Technische Universität Chemnitz, Germany
Jean-Jacques Herings, Universiteit Maastricht, The Netherlands	Joe Tharakan, Université de Liège, Belgium
Michel Lebreton, Toulouse school of Economics, France	Giacomo Valetta, EDHEC Business School, Roubaix, France
Marie-Louise Leroux, Université du Québec à Montréal, Canada	Dirk Van de Gaer, Universiteit Gent, Belgium
Dunia Lopez Pintado, Universidad Pablo de Olavide, Seville, Spain	Xavier Wauthy, Université Saint-Louis, Bruxelles, Belgium
Pascal Mossay, Newcastle University, United Kingdom	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	Amma Panin, Oxford University, United Kingdom
Eric Delmelle, University of North Carolina, Charlotte, USA	Simone Polimeni, Politecnica di Milano, Italy
Daniel De Wolf, Université du Littoral Côte d'Opale, France	Marco Rogna, Free University of Bolzano-Bozen, Italy
Alexander Gasknikov, Moscow Technical University, Russia	Juni Singh, Paris School of Economics, France
Filip Hanzely, King Abdullah University of Science and Technology, Thuwal, Arabie-Saoudite	Sebastian Stich, Ecole Polytechnique Fédérale de Lausanne, Switzerland
Nishant Mishra, KU Leuven Belgium	Claudio Telha, Universidad de Chile, Santiago, Chile
Yukihiro Nishimura, Osaka University, Japan,	Marius Vogel, Universität zu Köln, Germany
Laman Orujova, Nova School of Business and Economics, Lisboa, Portugal	Yi Zhu, Università Politecnica delle Marche, Ancona, 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 diversity
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 Universiteit 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 Belleflamme**, 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 Lexecon
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

December 10, 2019. Jannick Matuscke, KU Leuven
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

January 28, 2020. Alexander Gasnikov, Moscow Technical University
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

February 11, 2020. Hande Yaman Paternotte, KU Leuven
Teams as a service: Team formation on social networks
 Operations Research Seminar

March 3, 2020. Damien Scieur, Montreal Institute for Learning Algorithms
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

Johannes Johnen and Robert Somogyi. Networks, Electronic Commerce, and Telecommunications Institute Gummer Grant for their paper «Deceptive Products on Platforms», 2019.

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.



Fundings

Fundings

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

Franco Foundation research professorship

CORE coordinator: Anthony Papavasiliou
Financement: Franco 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 Nanumy and Akylai Taalaibekova

Financement: European Commission

Date: January 2017 - December 2020

Social and economic network formation under limited farsightedness: 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 Cioti

Financement: FNRS (FRESH)

Date: February 2020 - January 2024

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 Glineur

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 Ahookkhosh, Nikita Doikov, Mihai Florea, Geovani Nunes Grapiglia, Anton Rodomanov and Evgeniia 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-rank 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: UCLouvain and KU Leuven (KU Leuven Global PhD partnerships 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