

CURRICULUM VITAE: Pierre DEHEZ

AFFILIATION: **CORE** (Center for Operations Research and Econometrics)
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UNIVERSITY DEGREES:

- 1973 MA in Economics, University of Louvain (UCLouvain).
1980 PhD in Economics, University of Louvain (within the *European Doctoral programme in Quantitative Economics* joint degree with the University of Bonn and the London School of Economics).

POSITIONS:

- 1973-1974 Research Assistant at the *Center for Operations Research and Econometrics*, (CORE, UCLouvain).
1974-1975 Research Assistant at the *Belgian Planning Bureau*, Brussels.
1975-1981 Research Assistant at CORE financed by the *Belgian National Science Foundation*, (FNRS).
1981-1982 Visiting Assistant Professor at the *University of Illinois* at Urbana-Champaign.
1983-1989 Professor, *European University Institute* (EUI, Florence).
1991-1992 Professor, *Erasmus University Rotterdam*.
1992-2014 Professor, *University of Louvain*, Louvain-la-Neuve.
since 2013 External professor, *University of Pisa*.
since 2014 Professor Emeritus, *University of Louvain*, Louvain-la-Neuve.

Also visiting professor at the Universities of Namur, Mannheim, Bonn, Cergy-Pontoise, Strasbourg, Nancy, and at the Institut des Sciences Politiques (Paris).

OFFICES:

- 1985-1987 Chair, Department of Economics (EUI).
- 1986-1989 Chair, Committee for Student Affairs, *European Economic Association*.
- 1989 Chair, Department of Economics (EUI).
- 1993-1994 Vice-President in charge of research, *Institut de Recherches Economiques et Sociales* (IRES, UCLouvain).
- 1994-2000 Chair, Department of Economics (UCLouvain).
- 1998-2003 Member of the Scientific board of the *Centre Universitaire de Luxembourg*
- 1999-2000 Member of the Jury of the *Concours national d'agrégation de l'enseignement supérieur pour le recrutement de professeurs des universités en sciences économiques*, Paris
- 2001-2004 Prorector in charge of the human and social sciences sector (UCLouvain).
- 2004-2005 Member of the panel "Economics and statistics", *Valutazione Triennale della Ricerca*, CIVR, Roma
- 2004-2007 Member of the CNRS National board (economics and management), Paris
- 2008-2013 Member of the Governing board of the *Accademia Belgica*, Roma

TEACHING EXPERIENCE:

Principles of economics
Microeconomic theory
General equilibrium theory
Game theory with applications to economics and political science
Social choice
Mathematics for the social sciences
Dynamical methods in economics

LANGUAGES SKILLS

<i>French:</i> mother language	<i>Dutch:</i> basic
<i>English:</i> fluent	<i>German:</i> basic
<i>Italian:</i> fluent	

PUBLICATIONS

- "Un modèle dynamique des dépenses optimales de publicité en situation d'incertitude", *Revue Economique* 25, 1974, 75-85 (with Alexis Jacquemin)
- "A note on advertising policy under uncertainty and dynamic conditions", *Journal of Industrial Economics* 24, 1975, 73-78 (with Alexis Jacquemin)
- "Saving behaviour and disequilibrium analysis", *Systèmes dynamiques et modèles économiques*, CNRS, Paris 1977, 197-212 (with Jean Gabszewicz)
- "On disequilibrium savings and public consumption", *Zeitschrift für Nationalökonomie* 39, 1979, 53-61 (with Jean Gabszewicz).
- "Employment and dividend policy of the firm under risk" *Review of Economic Studies* 47, 1980, 503-511.
- "Apports de la théorie de l'équilibre général temporaire en analyse macroéconomique", *Recherches Economiques de Louvain* 46, 1980, 27-56.
- "The value of environmental quality", in *Umwelt alloktion in raum*, H. Siebert (ed.), Peter Lang Verlag, Mannheim, 1982, 75-92.
- "Stationary keynesian equilibria", *European Economic Review* 19, 1982, 245-258.
- "State-dependent utility, the demand for insurance and the value of safety", in *The value of life and safety*, M.J. Lee (ed.), North Holland, Amsterdam, 1982, 41-65. Revised version in *Premium calculations in insurance*, F. de Vylder (ed.), D. Reidel, 1984, 77-107. (with Jacques Drèze)
- "Rigidité des prix relatifs, rationnement de l'offre et inflation", *Cahier du séminaire d'économétrie* 26, 1984, 13-23 (with Jacques Drèze)
- "On supply-constrained equilibria", *Journal of Economic Theory* 33, 1984, 172-182 (with Jacques Drèze)
- "Monopolistic equilibria and involuntary unemployment", *Journal of Economic Theory* 36, 1985, 160-165.
- "Wage indexation and macroeconomic fluctuations", in *Wage rigidity, employment and economic policy*, W. Beckerman (ed.), Duckworth, London, 1986, 201-117 (with Jean-Paul Fitoussi)
- "Indexation des salaires et fluctuations macroéconomiques", *Revue d'économie politique* 96, 1986, 239-255 (with Jean-Paul Fitoussi)
- "Equilibre de stagflation et indexation des salaires", *Macro-dynamique et déséquilibres*, J.-P. Fitoussi et P.A. Muet (eds.), Economica, Paris, 1987, 163-184 (with Jean-Paul Fitoussi)
- "Distributive production sets and equilibria with increasing returns to scale", *Journal of Mathematical Economics* 17, 1988, 209-230 (with Jacques Drèze)
- "Competitive equilibria with quantity-taking firms and increasing returns", *Journal of Mathematical Economics* 17, 1988, 231-248. (with Jacques Drèze)
- "Rendements d'échelle croissants et équilibre général", *Revue d'économie politique* 98, 1988, 765-800.

"Revenu minimum, allocations de chômage et subventions à l'emploi", *Revue économique*, 1996, 33-49. (with Jean-Paul Fitoussi)

"Revenu minimum, niveaux de qualification et échelle de salaires", *Cahiers Luxembourgeois d'économie* XII, 1997, 1-16. (with Jean-Paul Fitoussi)

"Unemployment", in *Business cycles and depressions. An encyclopedia*, D. Glasner (ed.), Garland Publishing, 1997.

"Efficient bargaining and labor under-utilization", *Journal of Economics (Zeitschrift für Nationalökonomie)* 69, 1999, 127-139. (with David de la Croix et Eric Toulemonde)

"Edmond Malinvaud: Réexamen de la théorie du chômage" *Dictionnaire des grandes oeuvres économiques*, X. Greffe et al. (eds.), Dalloz, 2002, 317-324.

"Imperfect competition à la Negishi, also with fixed costs" *Journal of Mathematical Economics* 39, 2003, 219-237. (with Jacques Drèze and Takashi Suzuki)

"From uncertainty to macroeconomics and back: An interview of Jacques Drèze", *Macroeconomics Dynamics* 9, 2005, 429-461 (with Omar Licandro)

Reprinted in "*Inside the economist's mind*", Samuelson P.A. and W.A. Barnett (eds.), Blackwell Publishing, 2006, 278-306.

Review of "*The world as a mathematical game. John von Neumann and twentieth century science*" by G. Israel and A. M. Gasca, Birkhäuser, Basel, 2009, in *Weboeconomia*, 2011.

"Allocation of fixed costs: characterization of the (dual) weighted Shapley value", *International Game Theory Review* 13, 2011, 1-16.

"Data games: sharing public goods with exclusion", *Journal of Public Economic Theory* 15, 2013, 654-673. (with Daniela Tellone)

"Cooperative provision of indivisible public goods", *Theory and Decision* 74, 2013, 13-29.

"How to share joint liability. A cooperative game approach", *Mathematical Social Sciences* 66, 2013, 44-50 (with Samuel Ferey)

"The Shapley value as a guide to FRAND licensing agreements", *Review of Law and Economics* 10, 2014, 265-284. (with Sophie Poukens)

"Overdetermined causation cases, contribution and the Shapley value", *Chicago-Kent Law Review* 91, 2016, 637-658 (with Samuel Ferey)

"Multiple causation, apportionment and the Shapley value", *Journal of Legal Studies* 45, 2016 (with Samuel Ferey)

"On Harsanyi dividends and asymmetric values", *International Game Theory Review* 19/3, 2017 (reprinted as chapter 26 in *Game Theoretic Analysis*, edited by L.A. Petrosyan and D.W.K. Yeung, World Scientific Publishing, Singapore, 523-558).

"Approval voting and Shapley ranking", *Public Choice* 184, 2020, 415-428. (with Victor Ginsburgh)

"A propos de la proposition du Ministre Koen Geens de donner 5 voix à chaque électeur", *Regards Economiques – Focus* 23, 2019. (with Victor Ginsburgh)

"Alternative representation of semivalues, the inverse problem and coalitional rationality", *Journal of Mathematics and Statistical Science* 6, 2020, 68-84. (with Irinel Dragan).

"Sharing a collective probability of success", *Mathematical Social Sciences* 123, 2023, 122-127.

"Cooperative product games", *International Game Theory Review* 26, 2024.

BOOKS

"*Théorie des jeux. Conflit, négociation, partage et pouvoir*", Economica, Paris, 2017.

"*Introduzione alla teoria dei giochi. Conflitto, contrattazione, cooperazione e potere*", a cura di Pier Mario Pacini (University of Pisa), Giappichelli, Torino, 2021.

"*Game Theory for the social sciences. Conflict, bargaining, cooperation and power*", Springer 2024.

"*Cooperation and fair division. The Shapley value and related concepts*" (in preparation).

DISCUSSION PAPERS (unpublished)

"On minimum income, qualification structure and salary scale", OFCE Working Paper, Paris, and IRES Discussion Paper 9609, 1996.

"Shapley compensation scheme", CORE Discussion Paper 2007-94

"Incomplete market economies. The seminal work of Diamond, Drèze and Radner", CORE Discussion Paper 2012-29.

"1-convex transferable utility games, a reappraisal", CORE Discussion Paper 2021-16.

"The assembly line or the fat capitalist. A Mexican tale by B. Traven", CORE Discussion Paper 2022-14 (with Victor Ginsburgh).

"Dividing the expected payoff resulting from joint actions", CORE Discussion Paper 2023-17.

"A note on the relation between the Shapley value and the core of 3-player transferable utility games" (with Pier Mario Pacini), Core Discussion Paper 2024-01.

"Measuring the extent of synergies among innovation actors and their contributions: the Helix as a cooperative game" (with Eustache Mègnigbèto), CORE Discussion Paper 2024-06.

"Leniency in antitrust investigations as a cooperative game" (with Samuel Ferey), CORE Discussion Paper 2024-08.

"Axiomatization of the core of positive games", CORE Discussion Paper 2024-11.

UNPUBLISHED MIMEOS

"La théorie dynamique de la firme selon Alchian et le Principe du Maximum" (Alchian's dynamic theory of the firm and the Maximum Principle), Department of Economics, UCLouvain, 1972.

"Analyse théorique et méthodes de mesure des avantages collectifs de la qualité de l'eau d'une rivière" (Theoretical analysis of the collective advantages of the water quality of a river), *Programme national de recherche et de développement sur l'environnement physique et biologique*, Commission interministérielle de la politique scientifique, 1974.

"Les conditions d'efficacité économique et de légitimation démocratique des développements de la société de l'information" (Economic efficiency and democratic legitimacy of the

development of the information society), Centre de philosophie du droit, UCLouvain, 1994.
(with André Berten, Robert Cobbaut, Jean De Munck, Jacques Lenoble and Yves Smeers)

"Competitive pricing, free entry and increasing returns in a general equilibrium framework"
CORE and Universitat Pompeu Fabra, Barcelona, 2009 (with Xavier Calsamiglia).

TRANSLATIONS (into French)

Paul De Grauw, "*Les limites du marché. L'oscillation entre l'Etat et le capitalisme*",
De Boeck, Louvain-la-Neuve, 2016.

(originally published in Dutch under the title *De limieten van de markt*, Lannoo, 2014).

Eyal Winter, "*Libérez vos émotions. Pourquoi elles sont plus rationnelles que nous le pensons*",
De Boeck, Louvain-la-Neuve, 2017.

(from the English version *Feeling smart*, Public Affairs, 2014 – originally published in Hebrew).

DOCTORAL THESIS SUPERVISED

Augusta MICELI, "*Rendimenti di sacca crescenti in un modello macroeconomico semplice*",
Università di Roma, 1989, cosupervision with Domenico Tosato (now at Università of Roma).

Elettra AGLIARDI, "*Entry, exit and market structure*", EUI, 1990 (now at University of
Bologna).

Corrado BENASSI, "*Essays on asymmetric information and financial markets*", EUI, 1990 (now
at University of Bologna).

Nicolaas VRIEND, "*Essays on decentralized trade*", EUI, 1993, cosupervision with Alan Kirman
(now at Queen Mary, University of London).

Luciano PASI, "*Essays on public goods*", EUI, 1993, cosupervision with Alan Kirman, (now
Vice-President of Cooperativa Agrotecnica ARPA, Roma).

José SEMPERE, "*Licensing, externalities and competition*", UCLouvain, 1995, (now at
University of Valencia).

Vincent VANNETELBOSCH, "*Bargaining and rationality*", UCLouvain, 1996, (now at
UCLouvain and FNRS).

Bernard STAINIER, "*L'éthique de la redistribution en régime de chômage*", UCLouvain, 1997
cosupervision with Philippe Van Parijs.

Béatrice VAN HAEPEREN, "*Chômage, politiques d'emploi et inégalités de revenus*",
UCLouvain, 1997 (now at Région Wallonne).

Annick LARUELLE, "*Game theoretic analysis of decision-making processes with applications
to the European Union*", UCLouvain, 1998 (now at University of Bilbao).

Guillaume HAERINGER, "*Hétérogénéité des agents et formation des coalitions*",
BETA, Université de Strasbourg, 2000, cosupervision with Gisèle Umbhauer (now at Baruch
College, The City University of New York).

Filippo CALCIANO, "*A theory of games with general complementarities*", UCLouvain, 2010
cosupervision with Jean-Francois Mertens (now at University of Roma).