

Curriculum Vitae

Personal data

Name: Hamers
First Name: Herbert
Nationality: Dutch
Business Address: Department of Econometrics and Operations Research, Tilburg University,
P.O. Box 90153, 5000 LE Tilburg, The Netherlands
Phone: 013-4662660 / 2430
E-mail: h.j.m.hamers@tilburguniversity.edu
WEB: <https://www.tilburguniversity.edu/webwijs/show/h.j.m.hamers.htm>

Education (degrees, specialization and dates)

1991 - 1995 Ph.D. dissertation on Operations Research games:
“Sequencing and delivery problems: a game theoretic approach”,
Tilburg University.
Supervisors: Stef Tijs and Peter Borm
1982 - 1988 Master degree in Mathematics, specialization Game Theory and Operations
Research, University of Nijmegen
Supervisors: Stef Tijs and Imma Curiel

Professional experience (employer, function, period)

2007 - Present Full Professor Game Theory and Operations Research,
Tilburg University
2001 - 2007 Associate Professor Mathematics, Tilburg University
1995 - 2001 Assistant Professor Mathematics, Tilburg University
1991 - 1995 Research Associate NWO (0.8 fte),
Lecturer, Tilburg University (0.2 fte)
1988 - 1991 Lecturer, Tilburg University

RESEARCH

Publications

Articles in refereed journals

1. (2022) Herbert Hamers, Trine Tornøe Platz, Henk Norde, Nayat Horozoglu, “On totally balanced, submodular and PMAS-admissible weighted minimum colouring games” (to appear Annals of Operations Research)
2. (2020) Arantza Estevez-Fernandez, Herbert Hamers. “Chinese Postman games with multi-located players”, European Journal of Operational Research, ,285(2), 458-469.
3. (2020) Josh Burgher, Herbert Hamers, “A Quantitative Optimization Framework for Market-Driven Academic Program Portfolios”, International Journal of Educational Management, 34, 1-17.

4. (2019) Ben Hermans, Herbert Hamers, Roel Leus, Roy Lindelauf, "Timely exposure of a secret project: Which activities to monitor?", *Naval Logistics Research*, 66 (6), 451-468.
5. (2019) Faisal Zai, Herbert Hamers, Patrick McSharry, "Evaluating the predictive accuracy of corn phenological durations in Iowa and Illinois", *Agronomy Journal*, 111 (3), 1128-1140.
6. (2019) Herbert Hamers, Flip Klijn, Marco Slikker. "Implementation of optimal schedules in outsourcing with identical suppliers", *MMOR*, 89 (2), 173-187.
7. (2019) Jac Braat, Herbert Hamers, Flip Klijn, Marco Slikker, "A Selfish Allocation Heuristic in Scheduling: Equilibrium and Inefficiency Bound Analysis", *European Journal of Operational Research*, 273(1), 634-645.
8. (2019) Soesja Grundel, Peter Borm, Herbert Hamers, "Resource Allocation Problems with Concave Reward Functions", *TOP*, 27 (1), 37-54.
9. (2018) Tjeerd van Campen, Herbert Hamers, Bart Husslage, Roy Lindelauf, "A new approximation method for the Shapley value applied to the WTC 9/11 terrorist attack", *Social Networks Analysis and Mining*, 8 (1), 8 pages.
10. (2015) Trine Tornøe Platz, Herbert Hamers, "On games arising from multi-depot Chinese postman problems", *Annals of Operations Research*, 235-1, 675-692. **(VG)**
11. (2015) Bart Husslage, Peter Borm, Twan Burg, Herbert Hamers, Roy Lindelauf, "Ranking terrorists in networks: a sensitivity analysis of Al Qaeda's 9/11 attack", *Social Networks*, 42, 1-7. (impact factor 2.138).
12. (2014) Trine Tornøe Platz, Herbert Hamers, Marieke Quant, "Characterizing compromise stability of games using larginal vectors", *Mathematical Methods of Operations Research*, 80, 213-223.
13. (2014) Josune Albizuri, Herbert Hamers, "Graphs inducing totally balanced and submodular Chinese postman games", *Discrete Applied Mathematics*, 172, 98-103.
14. (2014) Herbert Hamers, Silvia Miquel, Henk Norde, "Monotonic Stable Solutions for Minimum Coloring Games", *Mathematical Programming, Series A*, 145, 509-529. **(TC)**
15. (2013) Sebastian Marban, Peter van de Ven, Peter Borm, Herbert Hamers, "A cooperative game-theoretic approach to ALOHA", *Mathematical Methods of Operations Research*, 78 (2), 221-242.
16. (2013) Soesja Grundel, Peter Borm, Herbert Hamers, "Resource allocation games: A compromise stable extension of bankruptcy games", *Mathematical Methods of Operations Research*, 78 (2), 149-169.
17. (2013) Miriam Groote Schaarsberg, Peter Borm, Herbert Hamers, Hans Reijnierse, "Interactive Purchasing Situations", *Naval Research Logistics*, 60 (8), 607-624.
18. (2013) Baris Ciftci, Peter Borm, Herbert Hamers, Marco Slikker, "Batch Sequencing and Cooperation", *Journal of Scheduling*, 16 (4), 405-415.
19. (2013) Soesja Grundel, Baris Ciftci, Peter Borm, Herbert Hamers, "Family Sequencing and Cooperation", *European Journal of Operational Research*, 226 (3), 414-424. **(VG)**
20. (2013) Roy Lindelauf, Herbert Hamers, Bart Husslage, "Game Theoretic Centrality Analysis of Terrorist Networks: The Cases of Jemaah Islamiyah and Al Qaeda", *European Journal of Operational Research*, 229, 230-238. **(VG)**
21. (2012) Arantza Estevez-Fernandez, Peter Borm, Herbert Hamers, "The museum pass game and its value", *International Game Theory Review*, 14, 1-9.

22. (2012) Roy Lindelauf, Peter Borm, Herbert Hamers, “One mode projections analysis and design of covert affiliation networks”, *Social Networks*, 34, 614-622. (impact factor 2.138)
23. (2011) Daniel Granot, Herbert Hamers, Jeroen Kuipers, Michael Maschler, “Chinese Postman Games on a Class of Eulerian Graphs”, *Games and Economic Behavior*, 72, 427-438. **(VG)**
24. (2010) Baris Ciftci, Peter Borm, Herbert Hamers, “Population monotonic paths schemes for simple games”, *Theory and Decision*, 69, 205-218.
25. (2010) Frans Cruijssen, Peter Borm, Hein Fleuren, Herbert Hamers, “Insinking: A methodology to exploit synergy in transportation”, *European Journal of Operational Research*, 207, 763-774.**(VG)**
26. (2010) Baris Ciftci, Peter Borm, Herbert Hamers, “A Note on the Balancedness and the Concavity of Highway Games”, *European Journal of Operational Research*, 204-1, 117-124. **(VG)**
27. (2010) Frans Cruijssen, Peter Borm, Wout Dullaert, Herbert Hamers, “A Versatile Framework for Cooperative Hub Network Design”, *European Journal of Industrial Engineering*, 4-2, 210-227.
28. (2009) Herbert Hamers, Flip Klijn, Marco Slikker, Bas van Velzen, “A Cooperative Approach to Queue Allocation of Indivisible Objects”, *International Game Theory Review*, 11-2, 1-13.
29. (2009) Roy Lindelauf, Peter Borm, Herbert Hamers, “The influence of secrecy on the structure of covert networks”, *Social Networks*, 31-2, 126-137. (impact factor 2.138)
30. (2009) Marloes Gerichhausen, Herbert Hamers, “Partitioned sequencing games”, *European Journal of Operational Research*, 196, 1, 207-216. **(VG)**
31. (2009) Silvia Miquel, Herbert Hamers, Henk Norde, Bas van Velzen, “Assignment situations with multiple ownership and their games”, *International Game Theory Review*, 11-1, 1-13.
32. (2009) Marloes Gerichhausen, Ezra Berkhout, Victor Manyong, “Game A quantitative framework to analyse cooperation between rural households”, *Agricultural Systems*, 101, 173-185. (impact factor 2.453)
33. (2008) Arantza Estevez-Fernandez, Manuel Masquera, Peter Borm, Herbert Hamers, “Proportionate flow shop games”, *Journal of Scheduling*, 11, 433-447.
34. (2008) Ruud Brekelmans, Lonneke Driessen, Herbert Hamers, Dick den Hertog, “Gradient estimation using Lagrange interpolation polynomials”, *Journal of Optimization Theory and Applications*, 136, 341–357. **(VG)**
35. (2008) Bas van Velzen, Herbert Hamers, Tamas Solymosi, “Core stability in chain-component additive games”, *Games and Economic Behavior*, 62-1, 116-139. **(VG)**
36. (2008) Pedro Calleja, Arantza Estevez-Fernandez, Peter Borm, Herbert Hamers, “Sequencing games with repeated players”, *Annals of Operations Research*, 158-1, 189-203. **(VG)**
37. (2007) Arantza Estevez-Fernandez, Peter Borm, Herbert Hamers, “Project games”, *International Journal of Game Theory*, 36-2, 149-176.
38. (2007) Wilco van den Heuvel, Peter Borm, Herbert Hamers, “Economic lot-sizing games”, *European Journal of Operational Research*, 176-2, 1117-1130. **(VG)**

39. (2006) Arantza Estevez-Fernandez, Peter Borm, Herbert Hamers, “On the core of multiple longest traveling salesman games”, *European Journal of Operational Research*, 174, 1816-1827. **(VG)**
40. (2006) Silvia Miquel, Bas van Velzen, Herbert Hamers, Henk Norde, “Fixed tree games with repeated players”, *Networks*, 47-2, 93-101.
41. (2006) Ruud Brekelmans, Lonneke Driessen, Herbert Hamers, Dick den Hertog, “On D-optimality based trustregions for black-box optimizations problems”, *Structural and Multidisciplinary Optimization*, 31-1, 40-48.
42. (2006) Pedro Calleja, Arantza Estevez-Fernandez, Peter Borm, Herbert Hamers, “Job scheduling, cooperation, and control”, *OR Letters*, 34-1, 22-28.
43. (2005) Herbert Hamers, Flip Klijn, Bas van Velzen, “On the convexity of precedence sequencing Games”, *Annals of Operations Research*, 137, 161-175. **(VG)**
44. (2005) Jeroen Suijs, Peter Borm, Herbert Hamers, Maurice Koster, Marieke Quant, “Communication and cooperation in public network situations”, *Annals of Operations Research*, 137, 117-140. **(VG)**
45. (2005) Ruud Brekelmans, Lonneke Driessen, Herbert Hamers, Dick den Hertog, “Gradient estimation schemes for noisy functions”, *Journal of Optimization Theory and Applications*, 126-3, 529-551. **(VG)**
46. (2005) Ruud Brekelmans, Lonneke Driessen, Herbert Hamers, Dick den Hertog, “Constrained optimization involving expensive function evaluations: A sequential approach”, *European Journal of Operational Research*, 160-1, 121-138. **(VG)**
47. (2004) Bas van Velzen, Herbert Hamers, Henk Norde, “Characterizing convexity of games using marginal vectors”, *Discrete Applied Mathematics*, 143, 298-306.
48. (2004) Endre Bjorndal, Herbert Hamers, Maurice Koster, “Cost allocation in a bank ATM network”, *Mathematical Methods of Operations Research*, 59-3, 405-418.
49. (2004) Daniel Granot, Herbert Hamers, “On the equivalence between some local and global Chinese postman and traveling salesman graphs”, *Discrete Applied Mathematics*, 134, 67-76.
50. (2003) Flip Klijn, Dries Vermeulen, Herbert Hamers, Tamas Solymosi, Stef Tijs, Jean Pere Villar, “Neighbour games and the leximax solution”, *Mathematical Methods of Operations Research*, 58-2, 191-208.
51. (2003) Herbert Hamers, Flip Klijn, Tamas Solymosi, Stef Tijs, Dries Vermeulen, “On the nucleolus of neighbour games”, *European Journal of Operational Research*, 146-1, 1-18. **(VG)**
52. (2003) Bas van Velzen, Herbert Hamers, “On the balancedness of relaxed sequencing games”, *Mathematical Methods of Operations Research*, 57-2, 287-297.
53. (2002) Bas van Velzen, Herbert Hamers, Henk Norde, “Convexity and Marginal Vectors”, *International Journal of Game Theory*, 31-3, 323-330.
54. (2002) Peter Borm, Pedro Calleja, Herbert Hamers, Flip Klijn, Marco Slikker, “On a new class of parallel sequencing situations and related games”, *Annals of Operations Research*, 109, 265-277. **(VG)**
55. (2002) Peter Borm, Gloria Fiestras-Janeiro, Herbert Hamers, Estela Sánchez, Marc Voorneveld, “On the convexity of games corresponding to sequencing situations with due dates”, *European Journal of Operational Research*, 136-3, 616-634. **(VG)**

56. (2002) Herbert Hamers, Flip Klijn, Tamas Solymosi, Stef Tijs, and Jean Pere Villar, "Assignment games satisfy the CoMa property", *Games and Economic Behavior*, 38-2, 231-239. **(VG)**
57. (2001) Peter Borm, Herbert Hamers, Ruud Hendrickx, "Operations research games: A survey". *Top*, 9-2, 139-199.
58. (2000) Flip Klijn, Stef Tijs, Herbert Hamers, "Balancedness of permutation games and envy-free allocations in indivisible good economies", *Economics Letters*, 69-3, 323-326.
59. (1999) Herbert Hamers, Peter Borm, Robert van den Leensel, Stef Tijs, "Cost allocation in the Chinese postman problem", *European Journal of Operational Research* 118-1, 153-163. **(VG)**
60. (1999) Herbert Hamers, Flip Klijn, Jeroen Suijs, "On the balancedness of multiple machine sequencing games", *European Journal of Operational Research*, 119, 678-691. **(VG)**
61. (1999) Daniel Granot, Herbert Hamers, Stef Tijs, "On some balanced, totally balanced and submodular delivery games", *Mathematical Programming*, 86-2, 355-366. **(TC)**
62. (1997) Imma Curiel, Herbert Hamers, Stef Tijs, Jos Potters, "Restricted component additive games", *Mathematical Methods of Operations Research*, 45-2, 213-220.
63. (1997) Herbert Hamers, "On the concavity of delivery games", *European Journal of Operational Research*, 99, 445-458. **(VG)**
64. (1996) Herbert Hamers, Jeroen Suijs, Stef Tijs, Peter Borm, "The split core for sequencing games", *Games and Economic Behavior*, 15-2, 165-176. **(VG)**
65. (1995) Herbert Hamers, Marco Slikker, "The PEGS-rule for probabilistic sequencing situations", *Cahiers du Centre d'Études de Recherche Opérationnelle*, 37, 109-119.
66. (1995) Herbert Hamers, "Generalized sequencing games", *Cahiers du Centre d'Études de Recherche Opérationnelle*, 37, 97-108.
67. (1995) Herbert Hamers, Peter Borm, Stef Tijs, "On games corresponding to sequencing situations with ready times", *Mathematical Programming*, 69-3, 471-483. **(TC)**
68. (1993) Herbert Hamers, "A silent duel over a cake", *Mathematical Methods of Operations Research*, 37-2, 119-127.

Articles in non-refereed journals

1. (2019) Herbert Hamers, Bart Husslage, Roy Lindelauf, "Coöperatieve speltheorie en terroristische netwerken". *Nieuw archief voor de wiskunde*, 3, 190-194.
2. (2011) Herbert Hamers, Bart Husslage, Roy Lindelauf, "Centraliteitsanalyses van terroristische netwerken", WODC-rapport, nr. 1975 (in opdracht van Nationale Coördinator Terrorisme bestrijding).
3. (2006) Frans Cruijssen, Peter Borm, Hein Fleuren, Herbert Hamers, "Insinking: Risicoloos profiteren van synergie in logistieke ketens." *STAtOR*, 7 (3), 20-23.

Refereed publications in proceedings

1. (2008) Roy Lindelauf, Iris Blankers, Peter Borm, Herbert Hamers, "On the optimal distribution of risk and information exchange in star networks", *Proceedings of the second international conference on computer cultural dynamics*, V.S. Subrahmanian, Arie Kruglanski (Eds.) 45-48.

- (2001) Ruud Brekelmans, Lonneke Driessen, Herbert Hamers, Dick den Hertog, “A sequential approach to product and process design involving expensive function evaluation”, Proceedings of the 3rd ASMO/ISSMO Conference on Engineering Design Optimization.

Chapters in books

- (2020) Roy Lindelauf, Bart Husslage, Herbert Hamers, “Analysing ISIS Zerkani Network using the Shapley Value”, In Handbook of the Shapley value, E. Eulgaba, V. Fragnelli, J. Sanchez-Soriano (Eds.), Taylor & Francis Group, Chapter 21, pp 463-481.
- (2013) Roy Lindelauf, Bart Husslage, Herbert Hamers, “Leaderless Covert Networks: A Quantitative Approach”, In Handbook of computational approaches to counterterrorism, V.S. Subrahmanian (Eds.) 2013, ISBN: 978-1-4614-5310-9.
- (2011) Roy Lindelauf, Peter Borm, Herbert Hamers, “Understanding Terrorist Network Topologies and Their Resilience Against Disruption”, In: Counter terrorism and open source intelligence, Uffe Kock Wiil (Eds.) 2011, ISBN: 978-3-7091-0387-6.
- (2009) Roy Lindelauf, Peter Borm, Herbert Hamers, “On Heterogeneous Covert Networks”, In: Mathematical Methods in Counterterrorism Memon, N., Farley, J.D., Hicks, D.L., Rosenorn, T. (Eds.) 2009, ISBN: 978-3-211-09441-9.
- (2002) Imma Curiel, Herbert Hamers, Flip Klijn, “Sequencing games: A survey”, In P.E.M. Borm & H.J.M. Peters (Eds.), Chapters in Game Theory (Theory and Decision Library, 31), Dordrecht: Kluwer Academic Publishers.
- (1997) Jeroen Suijs, Herbert Hamers, Stef Tijs, “On consistency of reward allocation rules in sequencing situations”, CWI-tract: Ten Years LNMB (CWI Tract, 122, Amsterdam: Centre for Mathematics and Informatics (CWI)).
- (1993) Herbert Hamers, Imma Curiel, Jos Potters, Stef Tijs, “The equal gain splitting rule for sequencing situations and the general nucleolus”, In Bachum et al. (Eds.), Operations research 93, Heidelberg: Physica Verlag, Springer.
- (1992) Herbert Hamers, Peter Borm, Stef Tijs, “Reducing sequencing situations”, In Karmann et al. (Eds.), Operations research 92, Heidelberg: Physica Verlag, Springer.
- (1991) Herbert Hamers, “The Shapley entrance game”, In Gritzmann et al. (Eds.), Operations research 91, Heidelberg: Physica Verlag, Springer.

Unpublished manuscripts

- (2017) Herry Moes, Herbert Hamers, Fleur Hasaart, Ruud Brekelmans, “Ranking of unwarranted variation in healthcare treatments”, CentER DP Tilburg 2017-04.
- (2006) Ruud Brekelmans, Lonneke Driessen, Marloes Gerichhausen, Herbert Hamers, Dick den Hertog, “Why methods for optimization problems with time consuming function evaluations and integer variables should use global approximation”, CentER DP Tilburg 2006-06 (not submitted).
- (2005) Bas van Velzen, Herbert Hamers, Henk Norde, “A note on permutationally convex games”, CentER DP Tilburg 2005-83 (not submitted).

Submitted papers

- Josh Burgher, Herbert Hamers, Claudia Rincon, Geraldine Downey, “Reducing recidivism by creating and measuring fair chances”

2. Tom van der Zanden, Hans Bodlaender, Herbert Hamers, “Efficiently computing the Shapley value of connectivity games in low treewidth graphs”

In preparation

1. Faisal Zai, Herbert Hamers, Patrick McSharry, “Predicting the impact of climate change on corn yield in Iowa”
2. Saadia El Obadi, Herbert Hamers, Henk Norde, Silvia Miquel, “Coloring games with multiple players”
3. Andries Beek, Mirjam Groote Schaarsbergen, Peter Borm, Herbert Hamers, Mattijs Veneman, “Cost allocation in CO2 Transport: a multi-actor perspective”

Supervision Ph.D. students

Graduated Ph.D. Students:

Flip Klijn

A game theoretic approach to assignment problems

Ph.D. defense: June 2000

Jointly supervised with Stef Tijs

Bas van Velzen

Cooperation in networks and scheduling

Ph.D. defense: September 2005 (cum laude)

Jointly supervised with Henk Norde

Lonneke Driessen

Simulation-based optimization for product and process design

Ph.D. defense: April 2006

Jointly supervised with Dick den Hertog

Arantza Estevez-Fernandez

Cooperative Behavior, Competition and Operations Research

Ph.D. defense: September 2006

Jointly supervised with Peter Borm

Baris Ciftci

A cooperative approach to sequencing and connections problems

PhD defense: December 2009

Jointly supervised with Peter Borm

Roy Lindelauf

Design and analysis of covert networks, affiliations and projects

PhD defense: October 2011

Jointly supervised with Peter Borm.

Soesja van Grundel
Essays on cooperation in resource allocation and scheduling
PhD defense: June 2015
Jointly supervised with Peter Borm

Current Ph.D. students

Joshua Burgher
Planned defense: 2023
Jointly supervised with Tim de Leeuw

Faisal Zai
Planned defense: 2023
Jointly supervised with Patrick McSharry

Andries van Beek
Planned defense: 2023
Jointly supervised with Peter Borm and Marieke Quant

Membership of Ph.D. thesis committee

Silvia Miquel (Barcelona, December 2005)
Marieke Quant (Tilburg, September 2006)
Erwin Stinstra (Tilburg, November 2006)
Frans Cruijssen (Tilburg, December 2006)
Stefano Moretti (Tilburg, October 2008)
Edwin Lohman (Tilburg, January 2012)
Özer Selçuk (Tilburg, September 2014)
Charly Bruijsten (Tilburg, December 2015)
Marieke Musegaas (Tilburg, May 2017)
Loe Schlicher (Eindhoven, October 2017)
Manuel Laszlo Mago (Tilburg, September 2018)
Guang Zhang (Tilburg, September 2018)
Corine van de Laan (Twente, January 2019)
Ben Hermans (Leuven, May 2020)

Refereeing

Annals of Operations Research, European Journal of Operational Research, Mathematical Programming, Journal of Combinatorial Optimization, International Journal of Game Theory, Games and Economic Behavior, Mathematical Methods of Operations Research, The Computer Journal, Naval Research Logistics, Annals of OR, Manufacturing and Service Operations Management, Discrete Applied Mathematics, Operations Research.

Presentations, seminars, conferences and workshops on invitation

Seminar Corvinus University, Budapest, December 11, 2020 (via Zoom)
TU Twente Seminar, Enschede, January 25, 2019
Workshop IMUS, Sevilla, December 17-18, 2018
TUE seminar, Eindhoven, October 16, 2017.
IAS Think-tank for terrorism, Amsterdam, May 29-30, 2017.
LNMB conference, Lunteren, January 16, 2017.
Workshop Networks and externalities, Budapest, May 26-27, 2014.
Seminar Tinbergen Institute, Amsterdam, December 7, 2013.
Conference in honour of Peleg, Odense, 15-16 November, 2013.
Seminar Game Theory, University of Copenhagen, Copenhagen, December 11, 2011.
Dutch Network on Computational Game Theory, CWI, Amsterdam, December 2, 2011.
Seminar Game Theory, University of Bilbao, Bilbao, November 8, 2011.
Seminar Mathematical Programming, London School of Economics, London, December 8, 2010.
Game theory and operations research, summer school, Lavagna,, September 8-20, 2003.
LNMB, workshop, Leiden, June-17-20, 1997.

Presentations at seminars, conferences and workshops as visitor

Montreal (2021) (via Zoom), Budapest (2012), Sing 8; Curacao (2012), First Caribbean Game theory conference; Palermo (2010), Sing 6; Newport Beach (2010), Behavioral & Quantitative Game Theory; Chicago (2009), Mathematical Programming; Washington (2008), Cultural Dynamics; Maastricht (2005), Game Theory; Tilburg (2004), OR; Copenhagen (2003), Mathematical Programming; Klagenfurt (2002), OR; Hilvarenbeek (2002), Game Theory; Atlanta (2000), Mathematical Programming; Barcelona (1998), Game Theory; Lausanne (1997), Mathematical Programming; Hamburg (1995), OR; Keulen (1994), OR; Stony Brook New York (1993), Game theory; Trier (1992), OR.

Organisation Scientific Conferences

Member Organizing Committee of:

Game theory conference Hilvarenbeek 2002 in honour of 65th birthday Stef Tijs.

A conference of 3 days with 200 participants.

Member Organizing Committee of

OR 2004 at Tilburg University

A conference of 3 days with 450 participants.

TEACHING TiSEM

Teaching bachelor/master programs TiSEM

(Period 2002 - 2021):

Bachelor Econometrics and OR

Introduction Analysis and Probability Theory

Bedrijfseconomische Modellen

Improving Society Lab

Bachelor Business Studies

Introduction Quantitative Methods BS, Quantitative Methods for BS

Bachelor International Business

Introduction Quantitative Methods, Statistics 1

Bachelor Bedrijfseconomie

Wiskunde 1, Wiskunde 2.

Master EME

Games and Economic Models

Master IB and IEF

Applied Methods for Economists

Graduate School Business

Games and Graphs.

Average score course evaluations: above 4 on 5-point scale

Master/Bachelor Thesis

Substantial amount of master and bachelor theses for EOR students.

Award:

Thesis of Remco Heesen entitled “How flow can you go, a management game” was awarded as best master thesis of Tilburg University of 2009.

(Period 1988 - 2002):

Wiskunde 1, Wiskunde 2, Statistiek 1, Statistiek 2,

Lineaire Algebra, Zelfstandig Modelleren

Game Theory, Vaardigheden Integratie Praktijk, Micro-Wiskunde

No evaluations available.

Teaching VWO students at Tilburg University (high schools):

VWO 5 students Wiskunde D (2008 - 2019)

VWO 5 students Wiskunde B (2010 - 2019)

Courses for teachers high schools mathematics at Tilburg University (VO wiskunde docenten)

2009 Coöperatieve speltheorie

2010 Financiële wiskunde

2011 Besliskunde

2012 Niet coöperatieve speltheorie

2013 Analyse

Netherlands Graduate School in OR (LNMB)

OR games (2004, 2006, 2008, 2010, 2012, 2015, 2017, 2019)

Invited lectures concerning teaching activities

Wiskunde D dagen, 7 June 2013

Nationale Wiskunde Dagen, January 2012

Brabantse Wiskunde Dagen, October 2012

Kerndocenten OMO, December 2012

Wiskunde D dagen, 5 June 2010.

Organization educational conferences

Chairman of “Iustrumcommissie docentendag”, 2007.

Consisted of one plenary talk, 16 parallel sessions and a plenary debate.

Number of participants 100.

Day for teachers mathematics and economics, 2005.

Consisted of several plenary and parallel sessions.

Number of participants 65.

Published books concerning education

Elementary quants for reading graphs and numbers

Herbert Hamers, Henk Norde (first edition 2018)

Mathematics for Business Economics

Herbert Hamers, Bob Kaper, John Kleppe

Academic Service (first edition 2013, third edition 2020) (also in Dutch available).

Linear and Dynamical systems, optimization and Games

Peter Borm, Edwin van Dam, Herbert Hamers, Henk Norde

Pearson (first edition 2006).

Business Maths

Herbert Hamers and Bob Kaper

Pearson (first edition 2004).

Mathematics with applications in micro-economics
Bob Kaper and Herbert Hamers
Academic Service (first edition 2000) (also in Dutch available).

Prizes, honors with respect to teaching

Excellent teacher award 2019 for Inleiding analyse en kansrekenen
Excellent teacher award 2014 for Wiskunde 1
Teaching Quality Award 2002 for Mathematics for Business
Teaching Quality Award 2001 for course Wiskunde 2 (jointly with Peter Borm, Edwin van Dam and Henk Norde)
Teaching Quality Award 2000 for course Wiskunde 1 (jointly with Peter Borm, Edwin van Dam, Bob Kaper and Henk Norde).

Readers concerning education

Reader “Linear Algebra and applications”
Peter Borm, Marieke Quant, Franka Schellekens, Herbert Hamers
First edition 2021

Reader “Inleiding in de integraalrekening”
Marieke Quant, Herbert Hamers
First edition 2010

Dictaat “Inleiding in de speltheorie”
Marieke Quant, Elleke Janssen, Herbert Hamers
First edition 2009

Dictaat “Inleiding in de financiële wiskunde”
Elleke Janssen, Marieke Quant, Herbert Hamers
First edition 2009

Opgavendictaat ”MicroWiskunde”
Herbert Hamers, Henk Norde, Martin van Tuijl
First edition 2000

EXECUTIVE TEACHING

TIAS: 1999 - 2007 on course contract
2007 - 2014 detachment 0.3 fte
2014 - 2020 detachment 0.4 fte
2020 – 2023 detachment 0.2 fte

Courses (2011-2021)

FTMBA Tilburg: Data science
FTMBA Tilburg: Quantitative methods
EMBA Tilburg: Quantitative tools in business
MIF: Quantitative tools in finance
MIF: Financial data analytics
Executive PhD programs, Tilburg, London, Beijing: Quantitative tools
VOMO: math and stats

Past courses (before 2011)

Pre-master Tilburg: Introduction quantitative methods
EMBA Utrecht: Quantitative tools in business
EMBA Bonn: Quantitative tools in business
FTMBA Utrecht: Quantitative methods
Excel-training: Statistics with Excel
Go Academy TNT: Statistical Models in Practice.

Average score course evaluations: above 4 on 5-point scale.

CZ (2014)

Quantitative methods for data analysts

Antwerp Management School (2014)

3CGM-program: Quantitative methods

NLDA (Dutch defense academy) (2009, 2010)

Statistics

Utrecht University (2000, 2001)

Game theory

Maastricht University (1997, 1998)

Mathematics

Prizes, honors with respect to teaching

Best Teacher Award 2021 in MIF-18 program, TIAS

Best Teacher Award 2006 in MIF-2 program, TIAS

EXECUTIVE RESEARCH

Sponsored Chair “CZ groep Tilburg” (2013-2017)

Research project investigating the behavior of hospitals and medical specialists with respect to declarations in relation with the introduction of DOT.

This project includes supervision of PhD student, classes for CZ employees, supporting in initializing “SAS fraude framework”.

Deliverables: two papers. Based on paper 2 a “dashboard” developed and implemented by CZ.

Start project: September 1, 2013

End project: September 1, 2017

Project initiator and supervisor “Wiskunde D on TiU” (2007-2012)

This project is initiated to increase the number of high school students at Tilburg and Goirle to choose the advanced mathematics course Wiskunde D.

The project contains courses that are offered at Tilburg University, development of teaching material and e-learning concepts in cooperation with mathematics teachers from high schools. The lead-time of the project is 7 years. The financial support is guaranteed by Board of Tilburg University, the board of FEB, Sprint, Beta platform (OC&W). Currently 150 high school students and 20 teachers are participating from seven different high schools.

Project initiator and supervisor “Wiskunde B on TiU” (2009-2012)

This project is initiated to make students acquainted with mathematics on a university. Courses, teaching material and e-learning concepts are developed. The project is financially supported by CFI of OC&W.

Project initiator and supervisor “Wiskunde B en D on TiU” (2012-present)

Cooperation between 8 high schools and Tilburg University, a continuation of the two previous mentioned projects.

Project “Centraliteitsanalyses van terroristische netwerken” (2011)

Acting on instructions from WODC-NCTB. This project is jointly implemented with Roy Lindelauf and Bart Husslage.

Project E-learning Wiskunde 1 (2012)

Development of e-learning environment for the course “Wiskunde 1”. Includes videos, text, interactive multiple choice exercises. This project implemented by John Kleppe and Elleke Janssen.

Project E-learning Mathematics 1 (2013)

Development of e-learning environment for the course “Mathematics 1”. Includes videos, text, interactive multiple choice exercises. This project implemented by John Kleppe, Marieke Quant and Herbert Hamers.

MANAGERIAL DUTIES

Present

Head of Department Econometrics and Operations Research (January 2019-present)

The department Econometrics and OR approximately consists of 50 staff members and 50 PhD students. The Head of Department is responsible for the staff of the department and processes and developments in the department. The HoD reports directly to the dean of TiSEM.

Member of Central Bureau of Appeals (September 2017-present)

Past

Chairman of the Board of Examination of TiSEM (September 2009-September 2017)

The board of examination is responsible for the complete organization concerning examinations that are taken by the 7000 students at TiSEM. Moreover, the board is responsible for monitoring the quality of the exams.

Member of the Academic Council TIAS Business School (November 2010-April 2018)

The AC is an advisory board concerning the academic quality of all programs at TIAS.

Member of Education Board MIF (June 2010-2012)

Chairman of committee “Toetsingsbeleid Tilburg University” (2011)

Ad hoc Member of VIDI committee (2010-2011)

Member of task force “researched based learning” (2009)

Member of committee “Outreaching” project (2009). The project has been awarded with a grant by Sprint (OC&W).

Member Management Team Department of Econometrics and Operations Research (2005-2009)

Coordinator Information Education EOR (2004-2009)

Member Educational Committee Business Studies (2002-2004)

Member Faculty Council, School of Economics and Management (1999-2000)

External activities

Member of advisory council Mill Hill College, Goirle (2011-present)

Member of advisory council FLOT, Fontys Hogeschool, Tilburg (2012-present)

Date: January 2022