Curriculum Vitae Frits C.R. Spieksma (January 2024)

1 Personal

Name: Frederik Cornelis Rafaël Spieksma.

Nationality: Dutch.

Day of birth: May 30, 1964.

Working Address: Department of Mathematics and Computer Science, Eindhoven University of Technology (TU/e), PO Box 513, 5600 MB, Eindhoven, the Netherlands.

e-mail: f.c.r.spieksma@tue.nl

URL: http://www.win.tue.nl/~fspieksma

2 Education

1976-1982: Municipial Gymnasium, Leiden.

1982-1987: Econometrics, at the University of Groningen; graduation date: December 18, 1987.

1988-1992: PhD student at Maastricht University; date of PhD defense: February 21, 1992.

3 Career

Nov. 1, 1985 - Sept. 1, 1987: Student Assistant, supervised by dr. L. Schoonbeek, Department of Mathematical Economics, University of Groningen.

Febr. 1, 1988 - March 1, 1992: PhD student, supervised by prof.dr.ir.drs. O.J. Vrieze (UM).

March 1, 1992 - July 1, 1992: Visiting Scholar, hosted by Prof.dr. M. Queyranne, University of British Columbia, Vancouver, Canada.

July 1, 1992 - July 1, 1995: Assistant Professor, Department of Mathematics, Maastricht University.

July 1, 1995 - October 1, 2001: Associate Professor, Department of Mathematics, Maastricht University.

October 1, 2001 - October 1, 2005: Professor, ORSTAT, Faculty of Economics and Business, KU Leuven.

October 1, 2005 - January 1, 2018: Ordinary Professor, ORSTAT, Faculty of Economics and Business, KU Leuven.

January 1, 2018 - October 1, 2019: Guest Professor, ORSTAT, Faculty of Economics and Business, KU Leuven.

January 1, 2018 - current: Full Professor, Combinatorial Optimization Group, Department of Mathematics and Computer Science, TU/e.

4 Teaching

4.1 Regular Courses taught at TU/e

Optimization (2MMD10), for students Industrial and Applied Mathematics (IAM), first master year (2018-present; approximate number of students: 70).

Non-Linear Optimization (2DME20), for students Electrical Engineering (EE), first master year (2018-present; approximate number of students: 50).

Decision Theory (0LSUC0), for students of TU/e (a USE course), 2nd bachelor year (2018-present; approximate number of students: 60).

Calculus B (2WBB0), for bachelor students of TU/e, senior tutor (2018-2020).

4.2 Regular Courses taught at KU Leuven

Applied Optimization, for students Handelsingenieur, first master year (2011-2017; approximate number of students: 20).

Kwantitatieve Beleidsmethoden (Optimaliseren), for students Toegepast Economische Wetenschappen, third bachelor year (2010-2017; approximate number of students: 250; in Dutch).

Toepassingen van Operationeel Onderzoek, for students Handelsingenieur, first master year (2002-2017; approximate number of students: 200; in Dutch).

Lineair Optimaliseren, for students Handelsingenieur, second bachelor year (2001-2016; approximate number of students: 250; in Dutch).

Optimization: special topics, Doctoral course (approximate number of students: 25; 2003-present).

A list of past courses is available upon request.

5 Supervision of PhD students

5.1 In progress

Jasper van Doornmalen (jul 2020 - , TU/e; daily supervision by Christopher Hojny)

Sjanne Zeijlemaker (sep 2020 - , TU/e; daily supervision by Aida Abiad)

Hans de Ferrante (sep 2020 - , TU/e and EuroTransplant; daily supervision by Bart Smeulders)

Arpan Sadhukhan (oct 2020 - , TU/e; joint supervision with Mark de Berg)

Andres Lopez Martinez (jun 2021 - , TU/e; joint supervision with Mark de Berg)

Antonina Khramova (nov 2021 - , TU/e; daily supervision by Aida Abiad)

Sten Wessel (oct 2022 - , TU/e; joint supervision with Christopher Hojny)

5.2 As Promotor

Danny Blom (sep 2019 - dec 2023, TU/e); thesis: Multi-Level Optimization Problems for Kidney Exchange (defense date: Dec 15, 2023)

Céline Swennenhuis (jan 2019 - 2022, TU/e); thesis: Fine-Grained Parameterized Complexity of Scheduling and Sequencing Problems (defense date: Dec 2, 2022; currently employed at PostNL)

Roel Lambers (sep 2018 - 2022, TU/e); thesis: Fairness and Flexibility in Sport Scheduling (defense date: Nov 11, 2022; currently employed at Amsterdam University of Applied Sciences)

Annette Ficker (2014-2018, KU Leuven); thesis: Combinatorial optimization problems with conflicts or vectors (defense date: June 13, 2018; currently employed at PostNL)

Bart Vangerven (2013-2017, KU Leuven); thesis: Combinatorial auctions: theory, practice, and experiments (defense date: December 18, 2017; after a post-doc at Wuppertal University, employed at OM Partners)

Túlio Toffolo (2013-2017, KU Leuven); thesis: Decomposition-based algorithms for optimization problems (defense date: November 10, 2017; currently employed at KU Leuven)

Ward Passchyn (2012-2016, KU Leuven); thesis: Scheduling Locks on Inland Waterways (defense date: June 27, 2016; currently employed at OM Partners)

Bart Smeulders (2011-2015, KU Leuven); thesis: Testing theories of choice behavior (defense date: March 27, 2015; after a post-doc at ULg, employed at TU/e)

Wim Vancroonenburg (2011-2015, KU Leuven); thesis: Operational decision support models and algorithms for hospital admission planning and scheduling (defense date: January 9, 2015; currently employed at KU Leuven)

Joris Kinable (2011-2014, KU Leuven); thesis: Decomposition Approaches for Optimization Problems (defense date: December 5, 2014; after employment at TU/e, employed by Amazon)

Trivikram Dokka (2009-2013, KU Leuven); thesis: Algorithms for Multi-index Assignment Problems (defense date: September 13, 2013; currently employed at Lancaster University)

Fabrice Talla Nobibon (2006-2010, KU Leuven); thesis: Algorithms for selection and graph-coloring problems with applications in marketing and microeconomics (defense date: September 24, 2010; currently employed at Amazon)

Sofie Coene (2005-2009, KU Leuven); thesis: Routing problems with profits and periodicity (defense date: May 26, 2009; currently employed as teacher at a high school)

Dries Goossens (2002-2006, KU Leuven); thesis: Exact Methods for Combinatorial Auctions (defense date: December 20, 2006; currently employed at Ghent University)

Linda S. Moonen (2001-2005, KU Leuven); thesis: Algorithms for some Graph-Theoretic Optimization Problems (defense date: September 2005; currently employed at Centraal Buro voor Statistiek)

Sofia Kovaleva (1999-2003, Maastricht University); thesis: Approximation of geometric set packing and hitting set problems (defense date: September 24, 2003; currently employed at Energy Essentials)

5.3 As Co-promotor

Kris Coolen (2009-2014, KU Leuven); thesis: Models and algorithms for search and sequencing problems.

Lotte Berghman (2007-2012, KU Leuven); thesis: Machine scheduling models for warehousing docking operations.

Jeroen H.G.C. Rutten (1994-1998, Maastricht University); thesis: Polyhedral clustering.

5.4 As member of the examination committee (since 2001)

anticipated:

Marie Baratto (ULg, promotor Yves Crama)

Miao Li (Rijks Universiteit Gent, Dries Goossens)

2024 (76)

Giulia Ferrandi (TU/e, promotor Michiel Hochstenbach (Jan 29)); thesis: Rayleigh Quotients in Gradient Methods and Linear Dimensionality Reduction.

2023 (75)

Natasja Sluijk (TU/e, promotor Tom van Woensel, co-promotor Joris Kinable (Nov 23)); thesis: From Chaos to Control: effective approaches for addressing demand uncertainty in vehicle routing.

Lasse Wulf (TU Graz, promotor Bettina Klinz); thesis: On Generalizations of Some Classical Combinatorial Optimization Problems: Multi-Stage Robustness, Higher-Order Cost Functions, and Nonpreemption.

Jari de Kroon (TU/e, promotoren Bart Jansen en Mark de Berg (July 4)); thesis: Parameterized Graph Modification Beyond the Natural Parameter.

Jordi Vermeulen (Utrecht University, promotor Marc van Kreveld (Jan 9)); thesis: Geometric similarity measures and their applications.

2022 (71)

Jelle Adan (TU/e, promotor Geert-Jan van Houtum, co-promotor Alp Akcay (Sept 23)); thesis: Operational Decision Making in Semiconductor Manufacturing.

Huib Donkers (TU/e, promotor Mark de Berg, co-promotor Bart Jansen (Sept 14)); thesis: Parameterized Algorithms for Finding Large Sparse Subgraphs.

2021 (69):

Julian Golak (Maastricht University, promotor Alexander Grigoriev, co-promotor Christof Defryn (Nov 16)); thesis: Velocity optimization on waterways.

Kay Peeters (TU/e, promotor Ivo Adan, co-promotores H. Nijmeijer, T. Martagan (Mar 30)); thesis: Production planning and control of poultry processing plants.

Kay Bogerd (TU/e, promotor Remco van der Hofstad, co-promotor Rui Castro (Feb 17)); thesis: Detecting planted structures in random graphs.

Afonso Sampaio (TU/e, promotor Tom Van Woensel (Jan 27)); thesis: Innovative Business-to-Consumer Last-Mile Solutions: Models and Algorithms.

T R Lalita (Indian Statistical Institute (Hyderabad), promotor G S R Murthy); thesis: Mathematical Formulations for Complex Resource Scheduling Problems.

2020 (64):

Xiajie Yi (RU Gent, promotor Dries Gooossens (Nov 24)); thesis: Dealing with uncertainty in round robin sports scheduling.

David Van Bulck (RU Gent, promotor Dries Gooossens (Sept 3)); thesis: Sports timetabling: theoretical results and new insights in algorithm performance.

Jules Wulms (TU/e, promotor Kevin Verbeek (August 25)); thesis: Stability of Geometric Algorithms.

Viktória Vadon (TU/e, promotor Remco van der Hofstad (June 16); thesis: Local and global structure of networks with communities).

San Pham (KU Leuven, promotor Patrick De Causmaecker (March 11)); thesis: Formal, exact and metaheuristic methods for combinatorial optimization.

Bart Post (TU/e, promotor Ton Koonen (Feb 26)); thesis: Load-driven self-organization of Radio-over-Fibre enabled dense networks.

2019 (58):

Guopeng Song (KU Leuven, promotor Roel Leus, co-promotor Jeroen Beliën (Dec 2)); thesis: New models and algorithms for resource loading and parallel machine scheduling.

Salim Rostami (KU Leuven, promotor Roel Leus, co-promotor Stefan Creemers (Sept 26)); thesis: New models and methods for sequencing and project scheduling.

Stefan Lendl (TU Graz, promotor Bettina Klinz (Aug 19)); thesis: Generalizations of Classic Combinatorial Optimization Problems on Graphs and Matroidal Structures: Algorithms and Complexity.

Joost de Kruijff (TU/e, promotor Ton de Kok (July 5)); thesis: High-Tech Low-Volume Production Planning.

Sándor Kisfaludi-Bak (TU/e, promotor Mark de Berg (June 27)); thesis: ETH-tight Algorithms for Geometric Network Problems.

Hendrik Vermuyten (KU Leuven, promotor Jeroen Beliën (May 14); thesis: Design of integrated scheduling and simulation models to optimise people flows and maximise safety.

Teun Janssen (TU Delft, promotor K. Aardal (March 21); thesis: Optimization in the Photolithography Bay.

Alessandro Garavaglia (TU/e, promotor R. van der Hofstad (Jan 29); thesis: Preferential attachment models for dynamic networks.

2018 (50)

Mehran Mehr (TU/e, promotor M. de Berg (Dec 5); thesis: Faster Algorithms for Geometric Clustering and Competitive Facility-Location Problems.

Shaswat Garg (TU/e, promotor N. Bansal (Oct 10); thesis: Algorithms for Combinatorial Discrepancy.

Marek Elias (TU/e, promotor N. Bansal (Sept 17)); thesis: Algorithms for some metrical service systems.

Grigorios Koumoutsis (TU/e, promotor N. Bansal (Sept 6); thesis: Algorithms for k-Server Problems.

Daniel Kowalczyk (KU Leuven, promotor R. Leus (June 6)); thesis: Scheduling with Conflicts.

José Núñez Ares (KU Leuven, promotor P. Goos (March 22); thesis: trend-robust and minimally aliased response surface designs by means of integer linear programming.

2017 (44)

Sofie Burggraeve (KU Leuven, promotor P. Vansteenwegen); thesis: Passenger robust timetables for dense railway networks.

Pieter Jan Kerstens (KU Leuven, promotor L. Cherchye); thesis: Beyond black box modeling in production: methodological advances in nonparametric methods.

2016 (42)

Guillerme Duviellé (Université de Montpellier, promotor R. Giroudeau); thesis: Approximation, Complexité Paramétrée et Stratégie de Résolution de Problèmes d'Affectation Multidimensionelle.

2015 (41)

Marco Castro (Antwerp University, promotor K. Sorensen, January); thesis: Models and Algorithms for travelling salesperson problems with hotel selection.

Abdelrahaman Aly (Université Catholique de Louvain, promotor Mathieu Van Vyve); thesis: Network flow problems with secure multiparty computation.

2014 (39)

Derya Sever (Technical University of Eindhoven, Promotor T. de Kok); thesis: Routing in Stochastic Networks.

2013 (38)

Jannes Verstichel (KU Leuven; promotor P. De Causmaecker and G. Vanden Berghe); thesis: The Lock Scheduling Problem.

Mahdi Noorizadegan (Warwick University (my role: External Examiner); promotor B. Chen); thesis: On Vehicle Routing with Uncertain Demands.

Xian Qiu (University of Twente; promotor M. Uetz); thesis: Fractional Programming in Cooperative Games

Jeroen Schokkaert (KU Leuven, October; promotor J. Swinnen); thesis: Economic aspects of sports and migration

Bertus Talsma (University of Groningen; promotores Sierksma and Teunter); thesis: Performance analysis in elite sports

2012 (33)

Sebastián Marbán (Maastricht University; promotor S. van Hoesel); thesis: Pricing and Scheduling under Uncertainty

Pablo Andres Maya Duque (University of Antwerp); thesis: Optimisation models and algorithms for non-profit logistics and disaster management problems

Bert Marchal (Maastricht University; promotor S. Van Hoesel); thesis: Treewidth. Structural properties and algorithmic insights

Christian Eggermont (Technical University of Eindhoven; promotor G. Woeginger); thesis: Reachability Problems in Scheduling and Planning.

2010 (29)

Patrick Schittekat (University of Antwerp); thesis: Metaheuristics for planning in logistics: from theory to industrial applications

2009 (28)

Joyce van Loon (Maastricht University); thesis: Algorithmic Pricing

Brecht Cardoen (KU Leuven); thesis: Operating room planning and scheduling: solving a surgical case sequencing problem

2008 (26)

Xinhui Wang (Twente University); thesis: Exact Algorithms for the Steiner Tree Problem

Verus Pronk (Technical University of Eindhoven); thesis: Resource management in cable access networks

2007 (24)

Reinder Lok (Maastricht University); thesis: Auction Mechanisms in Supply Chain Optimization

2001-2006 (23)

Tobias Brüggeman (2006, Twente University); thesis: Efficiency of local search

Joep Aerts (2002, Technical University of Eindhoven); thesis: Random redundant storage for video on demand

Jan-Willem Goossens (2004, Maastricht University); thesis: Models and algorithms for railway line planning problems

Jan Adem (2004, KU Leuven); thesis: Supervised classification

Wil Michiels (2004, Technical University of Eindhoven (cum laude)); thesis: Performance ratios for differencing methods

Alexander Grigoriev (2003, Maastricht University); thesis: High multiplicity scheduling problems

5.4.1 1993-2001 (17)

Adrie Koster (1999, UM); thesis: Frequency assignment - models and algorithms

Koen de Bontridder (2001, TUE); thesis: Integrating purchase and production planning: using local search in supply chain optimization

Robert van de Leensel (1999, UM); thesis: Models and algorithms for telecommunication network design

Maarten Oosten (1996, UM); thesis: A polyhedral approach to grouping problems

Joris van de Klundert (1996, UM); thesis: Scheduling problems in automated manufacturing

Ron van der Wal (1995, UM); thesis: Trees and objects

Jeroen Kuipers (1994, UM); thesis: Combinatorial methods in cooperative game theory

5.4.2 As chair of the promotion committee (10)

Caterine Rizzo (2023, TU/e, promotor Alessandro di Bucchianico (June 9))); thesis: Statistical monitoring procedures for high-purity manufacturing processes

Filip Deblaere (2010, KUL); thesis: Resource-constrained project scheduling under uncertainty

Nicolas Glady (2008, KUL); thesis: Customer Profitability Modeling

Lien Lamey (2008, KUL); thesis: The private-label nightmare: can national brands ever wake up?

Karen Crabbé (2008, KUL); thesis: Essays on corporate tax competition in Europe

David Martens (2008, KUL); thesis: Building acceptable classification models for financial engineering applications

Kobe Millet (2007, KUL); thesis: Prenatal Testosterone, Personality, and Economic Behavior

Stijn Van De Vonder (2006, KUL); thesis: Proactive-reactive procedures for robust project scheduling

Kelly Geyskens (2006, KUL); thesis: The ironic effects of food temptations on self-control performance

Jeroen Belien (2006, KUL); thesis: Exact and heuristics methodologies for patient scheduling: problems, formulations, algorithms

6 Research

6.1 Statistics

	Google Scholar	Since 2018
Number of citations	5078	2024
h-index	39	26
i10-index	89	52

Table 1: Statistics

6.2 Journal Publications

125 *Revising Model for End-stage Liver Disease from calendar-time cross-sections with correction for selection bias*,
de Ferrante, H.C., M. van Rosmalen, B.M.L. Smeulders, S. Vogelaar, F.C.R. Spieksma,
to appear in BMC Medical Research Methodology.

124 *Stable Approximation Algorithms for the Dynamic Broadcast Range-Assignment Problem*,
de Berg, M., A. Sadhukhan, and F.C.R. Spieksma
to appear in the SIAM Journal on Discrete Mathematics.

123 *Rejection-Proof Mechanisms for Multi-Agent Kidney Exchange*,
Blom, D., B. Smeulders, F.C.R. Spieksma
Games and Economic Behavior **143**, 25-50, 2024.

122 *How to Design a Stable Serial Knockout Competition*,
Lambers, R., R. Pendavingh, and F.C.R. Spieksma
to appear in Mathematics of Operations Research.

121 *Orthogonal schedules in single round robin tournaments*,
Lambers, R., J. Briët, V. Patel, F.C.R. Spieksma, and M.A. Yıldız
Operations Research Letters **51**, 528-532, 2023.

120 *Immunized patients have reduced access to transplantation in the Eurotransplant Kidney Allocation System*,
de Ferrante, H.C., B.M.L. Smeulders, I. Tieken, S. Heidt, G.W. Haasnoot, F.H.J. Claas, S. Vogelaar, and F.C.R. Spieksma,
Transplantation **107**, 2247-2254, 2023.

119 *Integer Programming Models for Round Robin Tournaments*,
van Doornmalen, J., C. Hojny, R. Lambers, and F.C.R. Spieksma,
European Journal of Operational Research **310**, 24-33, 2023.

118 *How to schedule the Volleyball Nations League*,
Lambers, R., L. Rothuizen, and F.C.R. Spieksma,
Journal of Sports Analytics **9**, 157-169, 2023.

117 *The Flexibility of Home Away Pattern Sets*,
Lambers, R., D. Goossens, and F.C.R. Spieksma,
Journal of Scheduling **26**, 413-423, 2023.

116 *A project scheduling problem with periodically aggregated resource-constraints*,
Morin, P.-A., C. Artigues, A. Haït, T. Kis, F.C.R. Spieksma,
Computers and Operations Research **141**, article number 105688, 2022.

115 *Minimizing travel time and latency in car-sharing problems*,
Luo, K. and F.C.R. Spieksma,
Algorithms 15, 30, 2022.

114 *Identifying optimal strategies in Kidney Exchange games is Σ_2^p-complete*,
Smeulders, B., D. Blom, and F.C.R. Spieksma,
accepted by Mathematical Programming.

113 *Parliament Seating Assignment Problems*,
Vangerven, B., D. Briskorn, D. Goossens, and F.C.R. Spieksma,
European Journal of Operational Research **296**, 914-926, 2022.

112 *Filling a theatre in times of the COVID-19 pandemic*,
Blom, D., R. Pendavingh, and F.C.R. Spieksma,
INFORMS Journal on Applied Analytics **52**, 473-484, 2022.

111 *Recourse in Kidney Exchange Programs*,
Smeulders, B., V. Bartier, Y. Crama, and F.C.R. Spieksma,
INFORMS Journal on Computing **34**, 1191-1205, 2022.

110 *A mathematical analysis of fairness in shootouts*,
Lambers, R. and F.C.R. Spieksma,
IMA Journal of Management Mathematics **32**, 411-424, 2021.

109 *A Note on Equitable Hamiltonian Cycles*,
Ophelders, T., R. Lambers, F.C.R. Spieksma, and T. Vredeveld,
Discrete Applied Mathematics **303**, 127-136, 2021.

108 *Solving a time-indexed formulation for an unrelated parallel machine scheduling problem by preprocessing and cutting planes*,
Berghman, L., F.C.R. Spieksma, and V. T'Kindt,
RAIRO-Operations Research **55**, S1747-S1765, 2021.

107 *Using feedback to mitigate coordination and threshold problems in iterative combinatorial auctions*,
Vangerven, B., D. Goossens, and F.C.R. Spieksma,
Business & Information Systems Engineering **63**, 113-127, 2021.

106 *Modelling and optimisation in European Kidney Exchange Programmes*,
Biró, P., J. van de Klundert, D. Manlove, W. Petterson, T. Andersson, L. Burnapp, P. Chromy, P. Delgado, P. Dworczak, B. Haase, A. Hemke, X. Klimentova, D. Kuypers, A. Nanni-Costa, B. Smeulders, F. Spieksma, M. Valentín, A. Viana,
European Journal of Operational Research **291**, 447-456, 2021.

105 *The transportation problem with conflicts*,
Ficker, A., F.C.R. Spieksma, and G.J. Woeginger,
Annals of Operations Research **298**, 207-227, 2021.

104 *The multi-league sports scheduling problem, or how to schedule thousands of matches*,
Davari, M., D. Goossens, J. Beliën, R. Lambers, and F.C.R. Spieksma,
Operations Research Letters **48**, 180-187, 2020.

103 *Online Interval Scheduling on Two Related Machines: the Power of Lookahead*,
Pinson, N. and F.C.R. Spieksma,
Journal of Combinatorial Optimization **38**, 224-253, 2019.

102 *Scheduling a Non-Commercial Indoor Football League: a Tabu Search Based Approach*,
Van Bulck, D., D. Goossens and F.C.R. Spieksma,
Annals of Operations Research **275**, 715-730, 2019.

101 *Building kidney exchange programmes in Europe – An overview of exchange practice and activities*,
Biró, P., B. Haase-Kromwijk, T. Andersson, E. Ásgeirsson, T. Baltesová, I. Boletis, C. Bolotinha, G. Bond, G. Böhmig, L. Burnapp, K. Cechlárová, P. Di Ciaccio, J. Fronek, K. Hadaya, A. Hemke, C. Jacquelinet, R. Johnson, R. Kieszek, D. Kuypers, R. Leishman, M.-A. Macher, D. Manlove, G. Menoudakou, M. Salonen, B. Smeulders, V. Sparacino, F. Spieksma, M. de la Oliva Valentín Muñoz, N. Wilson, J. van de Klundert,
Transplantation **103**, 1514-1522, 2019.

100 *No-wait scheduling for Locks*,
Passchyn, W., D. Briskorn and F.C.R. Spieksma,
INFORMS Journal on Computing **31**, 413-428, 2019.

99 *Scheduling parallel batching machines in a sequence*,
Passchyn, W. and F.C.R. Spieksma,
Journal of Scheduling **22**, 3535-357, 2019.

98 *Revealed preference theory: an algorithmic outlook*,
Smeulders, B., Y. Crama, and F.C.R. Spieksma,
European Journal of Operational Research **272**, 803-815, 2019.

97 *The sport teams grouping problem*,
Toffolo, T., J. Christiaens, F.C.R. Spieksma, and G. Vanden Berghe,
Annals of Operations Research **275**, 223-243, 2019.

96 *Testing Probabilistic Models of Choice using Column Generation*,
Smeulders, B., C. Davis-Stober, M. Regenwetter, and F.C.R. Spieksma,
Computers and Operations Research **95**, 32-43, 2018.

95 *Conference scheduling – a personalized approach*,
Vangerven, B., A. Ficker, D. Goossens, W. Passchyn, F.C.R. Spieksma, and G. Woeginger,
OMEGA **172**, 38-47, 2018.

94 *Robust Balanced Optimization*,
Ficker, A., F.C.R. Spieksma and G.J. Woeginger,
EURO Journal on Computational Optimization **6**, 239-266, 2018.

93 *Round-robin tournaments generated by the Circle Method have maximum carry-over*,
Lambrechts, E., A. Ficker, D. Goossens, and F.C.R. Spieksma,
Mathematical Programming **172**, 277-302, 2018.

92 *Exact algorithms for the Equitable Traveling Salesman Problem*,
Kinable, J., B. Smeulders, E. Delcour, and F.C.R. Spieksma,
European Journal of Operational Research **261**, 475-485, 2017.

91 *Winner Determination in Geometrical Combinatorial Auctions*,
Vangerven, B., D. Goossens and F.C.R. Spieksma,
European Journal of Operational Research **258**, 254-263, 2017.

90 *Fast separation for the three-index assignment problem*,
Dokka, T., Y. Mourtos, and F.C.R. Spieksma,
Mathematical Programming Computation **9**, 39-59, 2017.

89 *Revealed preference tests of collectively rational consumption behavior: formulations and algorithms*,
Talla Nobibon, F., L. Cherchye, Y. Crama, B. De Rock, T. Demuynck, and F.C.R. Spieksma,
Operations Research **64**, 1197-1216, 2016.

88 *The lockmaster's problem*,
Passchyn, W., D. Briskorn, S. Coene, J. Hurink, F.C.R. Spieksma, and G. Vanden Berghe,
European Journal of Operational Research **251**, 432-441, 2016.

87 *Mathematical programming models for lock scheduling with an emission objective*,
Passchyn, W., D. Briskorn, and F.C.R. Spieksma,
European Journal of Operational Research **248**, 802-814, 2016.

86 *Facets of the axial three-index assignment polytope*,
Dokka, T. and F.C.R. Spieksma,
Discrete Applied Mathematics **201**, 86-104, 2016.

85 *The focus of attention problem*,
Goossens, D., S. Polyakovskyi, F.C.R. Spieksma, and G.J. Woeginger
Algorithmica **74**, 559-573, 2016.

84 *Winning in straight sets helps in Grand Slam tennis*,
Goossens, D., J. Kempeneers, R.H. Koning, F.C.R. Spieksma
Performance Analysis in Sports **15**, 1007-1021, 2015.

83 *Complexity results for the Weak Axiom of Revealed Preference for collective consumption models*,
Smeulders, B., L. Cherchye, B. de Rock, F.C.R. Spieksma, and F. Talla Nobibon
Journal of Mathematical Economics **58**, 82-91, 2015.

82 *Valid inequalities for a time-indexed formulation*,
Berghman, L. and F.C.R. Spieksma
Operations Research Letters **43**, 268-272, 2015.

81 *Transitive preferences in multi-member households*,
Smeulders, B., L. Cherchye, B. de Rock, F.C.R. Spieksma, and F. Talla Nobibon
Economic Theory Bulletin **3**, 243-254, 2015.

80 *A Note on Testing Axioms of Revealed Preference*,
Talla Nobibon, F., B. Smeulders, and F.C.R. Spieksma
Journal of Optimization Theory and Applications **166**, 1063-1070, 2015.

79 *Multi-Dimensional Vector Assignment Problems*,
Dokka, T., Y. Crama, and F.C.R. Spieksma
Discrete Optimization **14**, 111-125, 2014.

78 *The red-blue transportation problem*,
Vancroonenburg, W., F. Della Croce, D. Goossens, and F.C.R. Spieksma,
European Journal of Operational Research **237**, 814-823, 2014.

77 *Schoolbus Routing - a column generation approach*,
Kinable, J., F.C.R. Spieksma, and G. Vanden Berghe,
International Transactions on Operations Research **21**, 453-478, 2014.

76 *The generalized lock scheduling problem: an exact approach*,
Verstichel, J., G. Vanden Berghe, P. De Causmaecker, and F.C.R. Spieksma,
Transportation Research Part E **65**, 16-34, 2014.

75 *Combinatorial auction design for a real-estate market*,
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6.5 Editorship

Currently, Associate Editor or member of Editorial Board of:

- Operations Research Letters (2008-present),
- Journal of Quantitative Analysis in Sports (2013-present),
- 4OR (2015-present).

Past:

- INFORMS Transactions on Education (2016-2022),
- OMEGA (2015-2018),
- Computers and Operations Research (1994-2014),
- Naval Research Logistics (2002-2004),
- IIE Transactions on Operations Engineering (2007-present),
- International Journal of Management Science and Engineering Management, MSEM (2009-2012),
- International Journal of Mathematics and Mathematical Sciences, IJMMS (2009-2012).

Prize:

- Receipt of the Certificate of Excellence for "outstanding contributions" to IIE Transactions (2002).

Member of the program committee of:

- ISCO 2024
- LAGOS 2021
- ISAAC 2019
- Operations Research in Brussels, the annual international conference of the German Operations Research Society (OR2018)
- Workshop on Approximation and Online Algorithms (WAOA2017)
- European Symposium on Algorithms ESA2017 (Track B)
- MathSportInternational 2017
- Matheuristics 2016 - Sixth International Workshop on Model-based Metaheuristics

- 14th International Symposium on Experimental Algorithms (SEA2015).
- 12th workshop on Models and Algorithms for Planning and Scheduling Problems (MAPSP2015).
- Second Workshop on Approximation, Parameterized and EXact algorithms (APEX2013).
- 13th bi-annual Symposium on Algorithms and Data Structures (WADS2013)
- 10th workshop on Models and Algorithms for Planning and Scheduling Problems (MAPSP2011).
- 10th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems (ATMOS 2010)
- The Sixth International Conference on Algorithmic Aspects in Information and Management (AAIM 2010)
- Models and Algorithms for Planning and Scheduling Problems (MAPSP2005).
- Workshop on Approximation and Online Algorithms (WAOA2005).

Editor of special issue:

- Crama, Y., D. Goossens, R. Leus, M. Schyns, F.C.R. Spieksma (2017), Special issue: Twelfth Workshop on Models and Algorithms for Planning and Scheduling Problems (MAPSP 2015), Journal of Scheduling **20**, 543.
- Goossens, D. and F.C.R. Spieksma (2014), Introduction to the MathSport papers, Journal of Quantitative Analysis in Sports **10**, 89.

6.6 Grants (over 30.000 euro)

- EuroTransplant grant "Algorithm Toolbox"(around 250.000 euro, 4yrs PhD student, joint with B. Smeulders, oct 2020 - oct 2024)
- EuroTech Grant for Kelin Luo (2yrs post-doc, oct 15 2019 - oct 2021)
- Principal Investigator since Jan 1, 2019 in the NETWORKS Gravitation Program funded by NWO (NETWORKS-024.002.003)
- EuroTech Grant for Daniel Kowalczyk (2yrs post-doc, sept 2018 - sept 2020)
- KU Leuven grant C2 Dynamic Combinatorial Optimization (around 500.000 euro, joint with G. Vanden Berghe and P. De Causmaecker)
- KU Leuven CELSA grant (around 90.000 euro, joint with T. Jordan (Eotvos University))
- FWO Grant G.0729.13 on Practical Combinatorial Auctions (around 200.000 euro for four years starting in 2014 - Funding for PhD Bart Vangerven)
- IUAP Grant: COMEX (around 500.000 euro for four years starting in 2013, together with P. De Causmaecker - Funding for PhD Ward Passchyn)
- FWO Grant G.0447.10 on Computational Economics (around 200.000 euro for four years starting in 2011 - Funding for PhD Bart Smeulders)
- OT Grant (OT/07/015): Methods for multidimensional assignment problems (160.000 euro for four years starting in 2008 - Funding for PhD Trivikram Dokka)

- FWO Grant G.0541.06: client oriented vehicle routing (jointly with University of Antwerp, 400.000 euro for four years starting in 2007 - Funding for PhD Sofie Coene)
- FWO Grant G.0114.03: models and methods for combinatorial auctions (200.000 euro for four years starting in 2004 - Funding for PhD Dries Goossens).
- Participation in the European Project called APPOL II ("APProximation and OnLine algorithms"): Contract no.:IST-2001-32007.
- Participation in the European Project called APPOL I ("APProximation and OnLine algorithms"): Contract no.:IST-1999-14084.

6.7 Management Tasks

- President of EURO (2024 - present)
- Member of the jury for the Brouwer medal (2023).
- Domain Chair of the domain Mathematics within the department, since Oct 1, 2021.
- IFC member (2021 - present).
- Vice-President at large of IFORS (2021 - 2023).
- Member of the "Werkgroep Vakkenstructuur Wiskunde" (2021-2022).
- Member of the Beta Research School (2021 - present)
- Member of the Advisory Committee of PrOFS (= Prevention of Fraud in Sports, 2021 - present)
- Vice chairman cluster SPOR (Statistics, Probability, Operations Research) (Jan 1, 2020 - Jan 1, 2022)
- Principal Investigator of NETWORKS (Jan 1, 2019 - current)
- Member of the board of the mathematics cluster DIAMANT (April 1, 2018 - present); chairman from Jan 1, 2020 till July 1, 2023)
- Member of the Management Committee of COST Action 15210 (2016 - 2019), entitled: "European Network for Collaboration on Kidney Exchange Programmes"
- Member of the Scientific Board of the PhD program Analytics in Economics and Management (Brescia) (2017 - present)
- President of the Belgian Society of Operations Research, ORBEL (2014-2017; see www.orbel.be)
- Founder of the EURO Working Group "OR in Sports", chairman from 2015 - 2019, member of the board from 2015 - present; see www.orinsports.com.
- Member of the Steering Committee of the bi-annual conference Models and Algorithms for Planning and Scheduling Problems (MAPSP)
- Director of the Leuven School of Business and Economics (2005-2008)
- Program Director of the advanced master programs MABS, MASE, MFE, MIBE (2005-2008)

- Chairman POC advanced masters (2005-2008)
- Chairman Evaluation committee advanced masters (2005-2008)
- Chairman of ORSTAT (2007-2009)
- Member of the board of the Faculty of Business and Economics (2005-2008)
- Member of the board of the Department of Applied Economics (2004-2005)
- Member of the board of the Dutch Society of Operations Research (NGB) (2000-2004)
- Member of the board of the Belgian Society of Operations Research, ORBEL (2003-present)
- Chairman of the Department of Mathematics (1997)
- Member of the board of the Faculty of General Sciences (1994-1999)
- Member of the Dutch Society for Mathematics of Operations Research (LNMB) (1996-present)
- Member of the committee internationalization of the UM (1995-1999)
- Member of the Board of the Center for European Studies (1996-1999)
- Member of the Public Relations committee Knowledge Engineering (1993)
- Member of the Library Committee of the Faculty of General Sciences (1994-present)
- Student-member of the council of the interfaculty econometrics, University of Groningen (1986)

6.8 Organizing activities

- Organization of IPCO2022, Eindhoven.
- Responsible for the organization of the IFORS Webinars:
  - "Global Sports Analytics", Nov 19, 2021
  - "OR and the Pandemic", May 5, 2022
- Organizer of the mini-symposium on Robust Optimization, June 2021, CWI, Amsterdam (online).
- Organizer of YC60, September 11, 2018, Liège.
- Organizer of MAPSP2015, June 2015, La-Roche-en-Ardenne (five days, around a 120 participants).
- Organizer of Math in Sports, June 2013, Leuven (three days, around a 100 participants).
- Organizer of ORBEL2009, February 2009, Leuven (two days, around a 100 participants).
- Organization of the Symposium on Combinatorial Auctions, December 20, 2006 in Leuven.
- Organization of the APPOL II workshop, November 8-9 2002, Leuven (16 speakers, 30 participants).

6.9 Visits and stays

- Sabbatical at London School of Economics (sept 2009 - march 2010).
- Visited Carlo Filippi, Brescia University, February 2008.
- Visiting Professor at University of Perugia, department of mathematics, summer school, august 2007.
- Visited Alessandro Agnetis, in Siena, april 2005.
- Visited Gerhard Woeginger, in Graz, June 1995.

7 Presentations

Invited speaker at the following meetings.

- Nationale Wiskunde Dagen, Noordwijkerhout, Jan 2020, Jan 2021, Jan 2022.
- 8-th Trainingsweek NETWORKS, mini-course on Practical Combinatorial Optimization, Doorn, May 2019
- DIAMANT symposium, Veldhoven, Apr 2018
- AUEB Sports Analytics Workshop, Athens, Nov 2017
- Graduierten kollege, Osnabrück, Nov 2017
- First Workshop on the Economics of Football, Kazan (Russia), June 2017
- OR2016, the international conference of the German OR Society, Hamburg, Sept 2016
- Workshop on Tractable special cases of hard combinatorial optimization problems, Graz, Dec 2014
- XIV Ecuadorian Meeting of Mathematics and its Applications, Quito, Sept 2014
- Dinalog Winterschool, Breda, Feb 2012
- MAPSP2009, Rolduc, June 2009
- MISTA 2007, Paris, Aug 2007

A list of presentations (> 100) is available upon request.

8 Publicity

- Lambers, R., R. Pendavingh, and F.C.R. Spieksma (2022), *A balanced schedule for the Premier League of Darts exists ... and is not used ...*, The Network Pages.
- As a result of work on the seat allocation for de Tweede Kamer (with Jasper van Doornmalen and Christopher Hojny):
  - *De ideale indeling van de Tweede Kamer: lam of leeuw?*, https://wetenschap.nu/de-ideale-indeling-van-de-tweede-kamer-lam-of-leeuw/ (May 11, 2021)
  - interview with BNR Nieuwsradio (May 19, 2021)

- As a result of work for the Music Building Eindhoven (with Danny Blom and Rudi Pendavingh):
  - *Podcast Interview "Resoundingly Human"* (Sept 2021)
  - *Een theater gevuld met wiskunde*, https://wetenschap.nu/muziekgebouw-eindhoven-een-theater-gevuld-met-wiskunde/ (Sept 29,2020)
  - *Algoritme berekent optimale zaalbezetting op 1,5 meter in Muziekgebouw* op https://innovationorigins.com/nl/algoritme-berekent-optimale-zaalbezetting-op-15-meter-in-muziekgebouw/ (August 2020)
  - Blom, D., R. Pendavingh, and F.C.R. Spieksma (2020), *Het vullen van theaters in coronatijd*, STAtOR **21**, No. 4, 4-9 (in Dutch)
- As a result of *True Rankings*, by R. Lambers and F.C.R. Spieksma (2020):
  - interview Radio FunX
  - interview Radio Veronica
  - de Telegraaf (May 27, 2020): *Getouwtrek AZ en Ajax om eerste plaats onnodig*
  - *Dit is de echte eindstand van de eredivisie* op https://wetenschap.nu/dit-is-de-echte-eindstand-van-de-eredivisie/ (Apr 29, 2020). Variaties hiervan zijn opgepikt op allerlei sites waaronder: https://www.nu.nl/wetenschap/6048708/de-echte-eindstand-van-eredivisie-volgens-wiskundigen-van-de-tue.html en http://www.soccernews.nl/news/691041/wiskundigen-andere-club-dan-ajax-eredivisiekampioen
  - *waarom-manchester-united-en-atletico-madrid-wel-naar-de-champions-league-mogen* op https://wetenschap.nu/waarom-manchester-united-en-atletico-madrid-wel-naar-de-champions-league-mogen/ (May 12, 2020)
  - Lambers, R. and F.C.R. Spieksma (2020), *De echte eindstand*, Euclides **96**, No 3, 8-9.
- Lambers, R., J. Nederlof, and F.C.R. Spieksma (2020), *How the schedule in the TATA Steel Chess Championship forced Carlsen to help Caruana win*, The Network Pages.
- Spieksma, F.C.R. (2019), *Who sits where in the senate?*, The Network Pages.

9 Commercial and Outreach Activities

- Organization: TU/e; Subject: capacity planning, May-Dec 2019, "To build or not to build"; Project members: Cor Hurkens (TU/e), Roel Lambers (TU/e), 20.000 euro.
- Organization: Nederlandse Beugel Bond; Subject: wedstrijdplanning, April-June 2019, ongoing; Project Member: Roel Lambers (TU/e), for free.
- Organization: EuroTransplant; subject: developing a simulation tool for kidney allocation decisions, Jan-Dec 2019; Project member: Bart Smeulders (TU/e), Marie Baratto (ULg), 20.000 euro.
- Organization: Stadgenoot (Amsterdam); Subject: auctions for renting; Output: advice on auction design and implementation 2010-2012; Methodology: Integer Programming; Project member: D. Goossens

- Organization: ProLeague (Brussels); Subject: sport scheduling; Output: Schedule for the seasons starting from 2006-2007, ongoing work; Methodology: Integer Programming and Local Search; Project member: D. Goossens
- Company: Atlascopco, Subject: Assortment problem, Output: Report (2002), Methodology: Integer Programming, Project members: Z. Degraeve (LBS), R. Jans (EUR)
- Company: Comperex, Subject: Crew Scheduling, Output: feasibility study (2003), Methodology: Linear Programming, Project member: E. Demeulemeester
- Company: Libertel, Subject: best cost routing, Output: a tool (2000), Methodology: heuristics, linear programming, UM project members: J. van de Klundert, J. Kuipers, M. Winkels
- Company: EDS, Subject: course "Communicatie en modellering van netwerkoptimalisering", Output: a certificate, Methodology: teaching, UM project member: J. van de Klundert
- Company: GELVA BV, Subject: Cutting problem, Output: a software tool (1999), Methodology: branch-and-bound, UM project member: prof.dr.ir. A. Kolen
- Company: ENCI Netherlands BV, Subject: Capacity Planning, Output: a software tool called SOLVE ("Simulatie van Orderafhandeling en Logistiek Voor Enci") (1997-1998), Methodology: simulation, UM project members: dr.ir. J. Rutten and dr. J. van de Klundert

10 Miscellaneous

- Ex-holder of the Dutch record in number of hours of consecutive tennis playing.
- Author of "Breekpunt", ISBN 978 90 8666 444 3.