Short Curriculum Vitae

Marc E. Pfetsch

Contact Data:

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Education:

1992–1997	Studies of mathematics at the University of Heidelberg
8/1997	Diploma in mathematics
1997–1998	Operations research studies at Cornell University, USA (Fulbright grant)
1998–2002	Ph. D. studies Technische Universität Berlin, Germany
10/2002	Dissertation (advisor: Prof. Günter M. Ziegler)
04/2008	Habilitation in mathematics, Technische Universität Berlin (mentor: M. Grötschel)

Positions:

1998–2002	Teaching assistant at Technische Universität Berlin, Germany
2002–2008	Postdoctoral researcher at Zuse Institute Berlin (ZIB), Germany
2008–2012	Full professor (W2), Technische Universität Braunschweig, Germany
04/2012–	Full professor (W3), Technische Universität Darmstadt, Germany

Activities:

Since 2019	Area Editor, Operations Research Letters
Since 2016	Associate Editor INFORMS Journal Computing
Since 2015	Associate Editor Mathematical Programming Computation
2014–2018	Associate Editor Operations Research Letters
2018–2020	Vice-Dean, Department of Mathematics, TU Darmstadt

Activities and Prizes:

2019	Rosenbrock Prize, Best Paper Award of Optimization and Engineering
2019	Best Paper Award of Mathematical Programming Computation
2017	Best Paper Award of Otimization Methods & Software
2016	EURO Excellence in Practice Award "Evaluating Gas Network Capacities"

Ten Selected Publications:

- *Mastering Uncertainty in Mechanical Engineering*, P. F. Pelz, P. Groche, M. E. Pfetsch, M. Schäffner, Editors, Springer, to appear.
- *Global optimization of mixed-integer ODE constrained network problems using the example of stationary gas transport*, O. Habeck, M. E. Pfetsch, and S. Ulbrich, SIAM Journal of Optimization **29**, no. 4 (2019), pp. 2949–2985.
- *Evaluating Gas Network Capacities*, T. Koch, B. Hiller, M. E. Pfetsch and L. Schewe, Editors, MOS-SIAM Series on Optimization, 2015
- *Validation of nominations in gas network optimization: models, methods, and solutions*, M. E. Pfetsch, A. Fügenschuh, B. Geißler, N. Geißler, R. Gollmer, B. Hiller, J. Humpola, T. Koch, T. Lehmann, A. Martin, A. Morsi, J. Rövekamp, L. Schewe, M. Schmidt, R. Schultz, R. Schwarz, J. Schweiger, C. Stangl, M. C. Steinbach, S. Vigerske, and B. M. Willert, Optimization Methods and Software **30**, no. 1 (2015), pp. 15–53.
- *The Computational Complexity of the Restricted Isometry Property, the Nullspace Property, and Related Concepts in Compressed Sensing*, A. M. Tillmann and M. E. Pfetsch, *IEEE Transactions on Information Theory* 60, No. 2 (2014), S. 1248–1259
- *The Steiner Connectivity Problem*, R. Borndörfer, M. Karbstein, and M. E. Pfetsch, *Math. Program.* 142, No. 1-2 (2013), 133–167
- *Packing and Partitioning Orbitopes*, V. Kaibel and M. E. Pfetsch, *Math. Program.* 114, No. 1, 1–36 (2008)
- *Branch-And-Cut for the Maximum Feasible Subsystem Problem*, M. E. Pfetsch, SIAM J. Optim. 19, No. 1, 21–38 (2008)
- *A column-generation approach to line planning in public transport*, R. Borndörfer, M. Grötschel, and M. E. Pfetsch Transportation Sci. **41**, no. 1 (2007), pp. 123–132.
- *Computing optimal Morse matchings*, M. Joswig and M. E. Pfetsch, SIAM J. Discrete Math. **20**, no. 1 (2006), pp. 11–25.