

Ambros Gleixner

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Zuse Institute Berlin (ZIB)
Takustr. 7
14195 Berlin
Germany

Phone: +49 (0)30 84185-169
Secretary: +49 (0)30 84185-209
Fax: +49 (0)30 84185-269
Email: gleixner@zib.de
Web: www.zib.de/gleixner

Current Position

since 2015 Head of research group “[Mathematical Optimization Methods](#)” at Zuse Institute Berlin, Department of Optimization. Our team currently consists of 2 senior researchers, 10 research assistants, and 4 student assistants.

Former Positions

2008–2015 Research assistant at Zuse Institute Berlin, Department of Optimization

Education

- 2015 Dr. rer. nat. (PhD) in Mathematics, Technische Universität Berlin (summa cum laude/with distinction)
Thesis: [Exact and Fast Algorithms for Mixed-Integer Nonlinear Programming](#)
Committee: Prof. Dr. Dr. h.c. mult. Martin Grötschel
Prof. Dr. Andrea Lodi
Prof. Dr. Thorsten Koch
- 2008 Diplom (MSc) in Mathematics, Technische Universität Berlin (grade 1.0, best possible)
Thesis: Solving large-scale open pit mining production scheduling problems by integer programming
Supervisor: Prof. Dr. Rolf H. Möhring
- 2002 Abitur (A level), Gymnasium Dingolfing (grade 1.0, best possible)

Publications

Submitted

- 2017 28. A. Gleixner, S.J. Maher, B. Müller, J.P. Pedroso. Exact Methods for Recursive Circle Packing. Available as ZIB-Report 17-07, Zuse Institute Berlin, February 2017, [URN:nbn:de:0297-zib-62039](https://nbn-resolving.org/urn:nbn:de:0297-zib-62039)
- 2016 27. G. Gamrath, A. Gleixner, T. Koch, M. Miltenberger, D. Kniasew, D. Schlögel, A. Martin, and D. Weninger. Tackling Industrial-Scale Supply Chain Problems by Mixed-Integer Programming. Available as ZIB-Report 16-45, Zuse Institute Berlin, November 2016, [URN:nbn:de:0297-zib-61107](https://nbn-resolving.org/urn:nbn:de:0297-zib-61107)
- 2016 26. I. Beckenbach, L. Eifler, K. Fackeldey, A. Gleixner, A. Grever, M. Weber, and J. Witzig. Mixed-Integer Programming for Cycle Detection in Non-reversible Markov Processes. Available as ZIB-Report 16-39, Zuse Institute Berlin, September 2016, [URN:nbn:de:0297-zib-60353](https://nbn-resolving.org/urn:nbn:de:0297-zib-60353)

Journal publications

- 2017 25. S. Vigerske and A. Gleixner. SCIP: Global Optimization of Mixed-Integer Nonlinear Programs in a Branch-and-Cut Framework. *Optimization Methods & Software*, in press, [DOI:10.1080/10556788.2017.1335312](https://doi.org/10.1080/10556788.2017.1335312)
- 2017 24. A.M. Gleixner, T. Berthold, B. Müller, and S. Weltge. Three Enhancements for Optimization-Based Bound Tightening. *Journal of Global Optimization*, 67:731-757, 2017, [DOI:10.1007/s10898-016-0450-4](https://doi.org/10.1007/s10898-016-0450-4)
- 2016 23. A.M. Gleixner, D.E. Steffy, and K. Wolter. Iterative Refinement for Linear Programming. *INFORMS Journal on Computing*, 28(3):449-464, 2016. [DOI:10.1287/ijoc.2016.0692](https://doi.org/10.1287/ijoc.2016.0692)
- 2014 22. T. Berthold and A.M. Gleixner. Undercover: a primal MINLP heuristic exploring a largest sub-MIP. *Mathematical Programming A*, 144(1-2):315-346, 2014, [DOI:10.1007/s10107-013-0635-2](https://doi.org/10.1007/s10107-013-0635-2)
- 2012 21. A.M. Gleixner, H. Held, W. Huang, and S. Vigerske. Towards globally optimal operation of water supply networks. *Numerical Algebra, Control and Optimization (NACO)*, 2(4):695-711, 2012, [DOI:10.3934/naco.2012.2.695](https://doi.org/10.3934/naco.2012.2.695)
- 2012 20. T. Berthold, A.M. Gleixner, S. Heinz, and S. Vigerske. Analyzing the computational impact of MIQCP solver components. *Numerical Algebra, Control and Optimization (NACO)*, 2(4):739-748, 2012, [DOI:10.3934/naco.2012.2.739](https://doi.org/10.3934/naco.2012.2.739)
- 2011 19. T. Koch, T. Achterberg, E. Andersen, O. Bastert, T. Berthold, R.E. Bixby, E. Danna, G. Gamrath, A.M. Gleixner, S. Heinz, A. Lodi, H. Mittelmann, T. Ralphs, D. Salvagnin, D.E. Steffy, and K. Wolter. MIPLIB 2010. *Mathematical Programming Computation*, 3(2):103-163, 2011, [DOI:10.1007/s12532-011-0025-9](https://doi.org/10.1007/s12532-011-0025-9)
- 2009 18. N. Boland, I. Dumitrescu, G. Froyland, and A.M. Gleixner. LP-based disaggregation approaches to solving the open pit mining production scheduling problem with block processing selectivity. *Computers & Operations Research*, 36:1064-1089, 2009, [DOI:10.1016/j.cor.2007.12.006](https://doi.org/10.1016/j.cor.2007.12.006)

Peer-reviewed conference proceedings

- 2017 17. K.K.H. Cheung, A. Gleixner, and D.E. Steffy. Verifying Integer Programming Results. In F. Eisenbrand and J. Koenemann, eds., *Integer Programming and Combinatorial Optimization: 19th International Conference, IPCO 2017*, pp. 148-160, 2017, [DOI:10.1007/978-3-319-59250-3_13](https://doi.org/10.1007/978-3-319-59250-3_13)
- 2016 16. F. D'Andreagiovanni and A.M. Gleixner. Towards an accurate solution of wireless network design problems. In R. Cerulli, S. Fujishige, and R.A. Mahjoub, eds., *Combinatorial Optimization: 4th International Symposium, ISCO 2016*, pp. 135-147, 2016, [DOI:10.1007/978-3-319-45587-7_12](https://doi.org/10.1007/978-3-319-45587-7_12)
- 2015 15. G. Gamrath, A. Melchiori, T. Berthold, A.M. Gleixner, and D. Salvagnin. Branching on multi-aggregated Variables. In L. Michel, ed., *Integration of AI and OR Techniques in Constraint Programming*, Proc. of CPAIOR 2015, pp. 141-156, Barcelona, May 20-22, 2015, [DOI:10.1007/978-3-319-18008-3_10](https://doi.org/10.1007/978-3-319-18008-3_10)
- 2013 14. T. Berthold and A.M. Gleixner. Undercover Branching. In V. Bonifaci, C. Demetrescu, A. Marchetti-Spaccamela, eds., *Experimental Algorithms*, Proc. of SEA 2013, pp. 212-223, Rome, June 5-7, 2013, [DOI:10.1007/978-3-642-38527-8_20](https://doi.org/10.1007/978-3-642-38527-8_20)
- 2013 13. A.M. Gleixner and S. Weltge. Learning and propagating Lagrangian variable bounds for mixed-integer nonlinear programming. In C. Gomes and M. Sellmann, eds., *Integration of AI and OR Techniques*

- in *Constraint Programming for Combinatorial Optimization Problems*, Proc. of CPAIOR 2013, pp. 355–361, Yorktown Heights, May 18–22, 2013, DOI:10.1007/978-3-642-38171-3_26
- 2012 12. A.M. Gleixner, D.E. Steffy, and K. Wolter. Improving the accuracy of linear programming solvers with iterative refinement. In *ISSAC '12. Proceedings of the 37th International Symposium on Symbolic and Algebraic Computation*, pp. 187–194, Grenoble, July 2012, DOI:10.1145/2442829.2442858
- 2012 11. A. Bley, A.M. Gleixner, T. Koch, and S. Vigerske. Comparing MIQCP solvers to a specialised algorithm for mine production scheduling. In H.G. Bock, H.X. Phu, R. Rannacher, and J.P. Schlöder, eds., *Modeling, Simulation and Optimization of Complex Processes: Proceedings of the Fourth International Conference on High Performance Scientific Computing, March 2-6, 2009, Hanoi, Vietnam*, pp. 25–39, 2012, DOI:10.1007/978-3-642-25707-0
- 2010 10. T. Berthold and A.M. Gleixner. Undercover – a primal heuristic for MINLP based on sub-MIPs generated by set covering. In P. Bonami, L. Liberti, A. J. Miller, and A. Sartenaer, eds., *Proceedings of the European Workshop on Mixed Integer Nonlinear Programming (EWMINLP)*, pp. 103–112, CIRM Marseille, France, April 2010

Further publications

- 2017 9. S.J. Maher, T. Fischer, T. Gally, G. Gamrath, A. Gleixner, R.L. Gottwald, G. Hendel, T. Koch, M.E. Lübbecke, M. Miltenberger, B. Müller, M.E. Pfetsch, C. Puchert, D. Rehfeldt, S. Schenker, R. Schwarz, F. Serrano, Y. Shinano, D. Weninger, J.T. Witt, and J. Witzig. The SCIP Optimization Suite 4.0. ZIB-Report 17-12, Zuse Institute Berlin, March 2017, URN:nbn:de:0297-zib-62170
- 2016 8. G. Gamrath, T. Fischer, T. Gally, A.M. Gleixner, G. Hendel, T. Koch, S.J. Maher, M. Miltenberger, B. Müller, M.E. Pfetsch, C. Puchert, D. Rehfeldt, S. Schenker, R. Schwarz, F. Serrano, Y. Shinano, S. Vigerske, D. Weninger, M. Winkler, J.T. Witt, and J. Witzig. The SCIP Optimization Suite 3.2. ZIB-Report 15-60, Zuse Institute Berlin, February 2016, URN:nbn:de:0297-zib-57675
- 2016 7. K. Cao, A. Gleixner, and M. Miltenberger. Methoden zur Reduktion der Rechenzeit linearer Optimierungsmodelle in der Energiewirtschaft – Eine Performance-Analyse. *EnInnov 2016: 14. Symposium Energieinnovation 2016*, Graz, February 10–12, 2016.
- 2015 6. A.M. Gleixner, Exact and fast algorithms for mixed-integer nonlinear programming. PhD thesis, Technische Universität Berlin, June 2015, DOI:10.14279/depositonce-4938
- 2012 5. A.M. Gleixner. Factorization and update of a reduced basis matrix for the revised simplex method. ZIB-Report 12-36, Zuse Institute Berlin, October 2012, URN:nbn:de:0297-zib-16349
- 2012 4. T. Berthold, A.M. Gleixner, S. Heinz, T. Koch, and Y. Shinano. SCIP Optimization Suite を利用した混合整数(線形/非線形) 計画問題の解法. In M. Muramatsu, ed., *Proceedings of the 24th RAMP-Symposium (RAMP 2012)*, pp. 165–192, Tohoku University, Japan, September 2012. Japanese.
- 2012 3. T. Berthold, G. Gamrath, A.M. Gleixner, S. Heinz, T. Koch, and Y. Shinano. Solving mixed integer linear and nonlinear problems using the SCIP Optimization Suite. ZIB-Report 12-27, Zuse Institute Berlin, July 2012, URN:nbn:de:0297-zib-15654
- 2011 2. T. Berthold, A.M. Gleixner, S. Heinz, and S. Vigerske. On the computational impact of MIQCP solver components. ZIB-Report 11-01, Zuse Institute Berlin, March 2011, URN:nbn:de:0297-zib-11998
- 2008 1. A.M. Gleixner, Solving large-scale open pit mining production scheduling problems by integer programming. Diplomarbeit (Master’s thesis), Technische Universität Berlin, June 2008, URN:nbn:de:0297-zib-11389

Scientific talks & organized meetings

Invited talks

- 2016 57. Towards Verifiable Mixed-Integer Optimization. *Kolloquium Angewandte Mathematik*, Friedrich-Alexander-Universität Erlangen-Nürnberg, December 12, 2016
- 2016 56. Potentials and Limitations of Parallel Computing for Mixed-Integer Linear Energy System Models. *Int’l Workshop on Optimization Challenges in the Evolution of Electricity Networks to Smart Grids*, Coimbra, October 28, 2016

- 2016 55. Accurate and exact linear optimization with SoPlex. [Luxembourg Centre for Systems Biomedicine, University of Luxembourg](#), September 1, 2016
- 2016 54. Separation, propagation, heuristics: selected tricks from an advanced MINLP solver. [MINO/COST Spring School on MINLP](#), Paris, April 8, 2016
- 2014 53. SoPlex: A New Exact LP Solver. [GAMS Software GmbH](#), Braunschweig, December 13, 2014
- 2014 52. Exact Linear Programming over the Rational Numbers. [Institute for Mathematical Optimization, Oberseminar, OVGU Magdeburg](#), December 12, 2014
- 2014 51. A High-Precision LP Solver Based on Iterative Refinement. [Operations Research Group, Università di Bologna](#), November 28, 2014
- 2014 50. High-precision solutions for linear programs over the rational numbers. Centre for Process Systems Engineering, Imperial College London, July 9, 2014 ([abstract](#))
- 2014 49. Filtered performance diagrams for analyzing MINLP solver performance. [Institute of Mathematics for Industry](#), Kyushu University, Fukuoka, Japan, June 17, 2014
- 2014 48. Introduction to Constraint Integer Programming; Solving mixed-integer nonlinear programs with SCIP; SCIP at work: examples and case studies. [5th Porto Meeting on Mathematics for Industry](#), Universidade do Porto, April 10–11, 2014
- 2013 47. Continuous nonlinearities: outer approximation and spatial branching; The tightest bound: Propagation for continuous variables. [Mixed-Integer Nonlinear Programming Workshop](#) (jointly with T. Berthold), University of Melbourne, September 25, 2013
- 2013 46. Standing on the shoulders of linear programming: efficient algorithms for MINLP. Melbourne Engineering Research Institute, University of Melbourne, September 24, 2013 ([abstract](#))
- 2013 45. Bound tightening techniques in mixed-integer nonlinear programming. Oakland University, Dept. of Mathematics and Statistics, Rochester, May 28, 2013
- 2012 44. Optimization-based bound tightening and Lagrangian variable bounds. [2nd Sino-German Workshop on Optimization, Modeling, Methods and Applications in Industry and Management](#), Beijing, September 26, 2012
- 2012 43. Accurate linear programming. [1st CREST Workshop on Computational Aspects of Solving Large-Scale Optimization Problems](#), Chuo University, Tokyo, March 23, 2012
- 2010 42. Towards solving MINLPs within a constraint integer programming framework: Algorithms and applications (jointly with S. Vigerske). OR Seminar, University of Melbourne, November 5, 2010
- 2010 41. Undercover – a primal heuristic for MINLP based on sub-MIPs generated by set covering. [Egerváry Szeminárium](#), ELTE University, Budapest, Hungary, February 15, 2010

Organized meetings

- 2018 40. Dagstuhl Seminar 18081: “[Designing and Implementing Algorithms for Mixed-Integer Nonlinear Optimization](#)”, Schloss Dagstuhl, February 18–23, 2018 (jointly with P. Bonami, J. Linderoth, R. Misener)
- 2017 39. Session “[Computational Mixed-Integer Programming](#)”, OR2017 – International Conference on Operations Research, FU Berlin, September 6–8, 2017
- 2017 38. COST TD1207 Training School “[Optimization and Data](#)”, University of Novi Sad, March 13–17, 2017 (jointly with M. Petković, Ž. Kanović, Z. Jeličić)
- 2016 37. Workshop “[Mathematical Optimization of Macroeconomic Energy Systems Models](#)”, Prague, September 21, 2016 (jointly with F. Borggrefe)
- 2016 36. Mini-Symposium “[Exact Solutions and Certificates in Mathematical Optimization](#)”, 7th European Congress of Mathematics (7ECM), TU Berlin, July 18–22, 2016 (jointly with D.E. Steffy)
- 2016 35. Stream “[Mathematical Optimization](#)”, 5th International Congress on Mathematical Software (ICMS 2016), Berlin, July 11–14, 2016 (jointly with C. Kirches, J. Mitchell, T. Ralphs)
- 2016 34. Management Committee Meeting “[COST Action TD1207: Mathematical Optimization in the Decision Support Systems for Efficient and Robust Energy Networks](#)”, Seeheim, March 14–15, 2016
- 2013 33. Workshop “[MODAL Workshop on advances in MINLP solver technology](#)”, Berlin, November 29, 2013
- 2011 32. International Conference “[CPAIOR 2011](#)”, Berlin, May 23–27, 2011 (conference chair jointly with T. Berthold, S. Heinz, and T. Koch)

Further presentations

- 2017 31. A Dantzig-Wolfe Decomposition With Nonlinear Subproblems For Recursive Circle Packing. [Mathematical Optimization in the Decision Support Systems for Efficient and Robust Energy Networks](#), Modena, March 31, 2017
- 2017 30. Verifying Integer Programming Results. [21st International Workshop on Combinatorial Optimization](#), Aussois, January 9, 2017
- 2016 29. Mixed-integer Programming for Detecting Cycles in Non-reversible Markov Processes. [INFORMS Annual Meeting](#), Nashville, TN, November 15, 2016
- 2016 28. A Dantzig-Wolfe Decomposition With Nonlinear Subproblems For Recursive Circle Packing. [INFORMS Annual Meeting](#), Nashville, TN, November 13, 2016
- 2015 27. Basic Concepts of Constraint Integer Programming. [Combinatorial Optimization at Work 2015](#), Berlin, September 30, 2015
- 2015 26. SoPlex: a new exact LP solver. [ISMP 2015](#), Pittsburgh, July 14, 2015
- 2015 25. New algorithms for exact linear and quadratic programming over the rational numbers. [MIP 2015](#), Chicago, June 2, 2015
- 2014 24. Analyzing the computational impact of individual MINLP solver components. [MINLP 2014](#), Carnegie Mellon University, Pittsburgh, June 4, 2014
- 2013 23. Lagrangian Variable Bounds or: how to profit from redundancy in MINLP. [MODAL Workshop on advances in MINLP solver technology](#), Berlin, November 29, 2013
- 2013 22. Lagrangian Variable Bounds or: how to profit from redundancy in MINLP. Les journées du PGMO, ENSTA Paristech, October 4, 2013
- 2013 21. Computing accurate solutions for linear programming models from computational biology. [OR 2013](#), Rotterdam, September 6, 2013
- 2013 20. Undercover Branching. [SEA 2013](#), Rome, June 6, 2013
- 2013 19. Learning and propagating Lagrangian variable bounds. [CPAIOR 2013](#), IBM T.J. Watson Research Center, May 20, 2013
- 2013 18. Recent Advances in Solving MINLPs with SCIP. [ACGO seminar](#), Universidad de Chile, Santiago de Chile, May 13, 2013
- 2013 17. Accurate Linear Programming. BMS Student Conference 2013, Berlin, February 20, 2013
- 2012 16. Rapid optimality-based bound tightening. [ISMP 2012](#), Berlin, August 20, 2012
- 2012 15. Rapid optimality-based bound tightening. [FRICO 2012](#), Berlin, August 16, 2012,
- 2012 14. Improving the accuracy of linear programming solvers with iterative refinement. [ISSAC 2012](#), Grenoble, July 25, 2012
- 2012 13. Improving the accuracy of linear programming solvers with iterative refinement. [Egerváry Szeminárium](#), ELTE University, Budapest, May 21, 2012
- 2011 12. Integer programming for constraint programmers (jointly with S. Heinz). [CP 2011](#), Perugia, September 14, 2011
- 2011 11. Operative planning of water network design by MINLP. [OR 2011](#), Zürich, August 31, 2011
- 2011 10. Operative planning of water network design by MINLP. [1st Sino-German Workshop on Optimization, Modeling, Methods and Applications in Industry and Management](#), Berlin, August 19, 2011
- 2011 9. What is linear programming? [BMS "What is ...?" Seminar](#), Berlin, June 24, 2011
- 2010 8. Applications of nonconvex MINLP. [Discrete Optimization Workshop on Applications in Transport, Logistics and Networks \(DO10\)](#), Sydney, October 15, 2010
- 2010 7. Solving LPs for MIPs. [Computational Management Science 2010](#), Vienna, July 28, 2010
- 2010 6. On the computational impact of MIQCP solver components. [Workshop on Hybrid Methods for Nonlinear Combinatorial Problems \(HybridNL 2010\)](#), Bologna, June 15, 2010
- 2010 5. Undercover – a primal heuristic for MINLP based on sub-MIPs generated by set covering. [European Workshop for Mixed-Integer Nonlinear Programming](#), Marseille, April 16, 2010
- 2010 4. Undercover – a primal heuristic for MINLP based on sub-MIPs generated by set covering. [14th International Workshop on Combinatorial Optimization](#), Aussois, January 6, 2010
- 2009 3. Open pit mine production scheduling. IP modelling and solution techniques. [Combinatorial Optimization at Work 2009](#), Berlin, September 28, 2009

- 2009 2. Using Lagrangean relaxation of resource constraints for open pit mining production scheduling. [ISMP 2009](#), Chicago, August 26, 2009
- 2009 1. Using Lagrangean relaxation of resource constraints for open pit mining production scheduling. [EURO 2009](#), Bonn, July 6, 2009

Research projects

Third-party funding

- 2015–2018 German Federal Ministry of Economics (BMWi), “[BEAM-ME - Speed-up methods from Applied Mathematics and Computer Science for the Optimization of Energy Systems Models](#)” (principal investigator of ZIB’s sub-project, grant number 03ET4023D), jointly with F. Borggrefe, M.R. Bussieck, B. Fuchs, T. Koch, B. Koller, and D. Rohe
- 2015–2019 SAP AG & Co. KG, “[Development of new Linear and Integer Programming Techniques to solve Supply Chain Management Problems](#)” (principal investigator), jointly with T. Koch and A. Martin
- since 2015 Siemens AG, Corporate Technology, “[Siemens-ZIB-Cooperation](#)” (principal investigator)

Further research projects

- 2015–2016 ZIB Bridge Project, “[Mixed-Integer Programming for Cycle Detection in Nonreversible Markov Processes](#)” (principal investigator), jointly with M. Weber
- 2013–2019 German Federal Ministry of Education and Research (BMBF), “[Research Campus MODAL: Mathematical Optimization and Data Analysis Laboratory](#)” (member)
- 2009–2014 German Science Foundation (DFG), “[MATHEON B20: Optimization of Gas Transport](#)” (associated researcher)
- 2008–2015 Siemens AG, Corporate Technology, “[Siemens-ZIB-Cooperation](#)” (member)
- 2006 University of New South Wales, Sydney, Australia, “Integer programming techniques for large-scale open pit mine production scheduling” (Honours project with G. Froyland)
- 2005 Siemens AG, Corporate Technology, “Efficient planning of wireless networks” (intern)
- 2004 Siemens AG, Transportation Systems Locomotives, “Computer-aided simulation of engine room fires” (intern)

Software

- since 2016 [VIPR](#), a software project for verifying results of mixed-integer linear programming solvers over \mathbb{Q}
- since 2009 [SCIP](#), one of the fastest academic MIP and MINLP solvers and a flexible branch-cut-and-price framework with over 8,000 downloads per year
- since 2008 [SoPlex](#), a revised simplex implementation with high-precision support and exact solving capability over \mathbb{Q}

Teaching

- 2016 Graduate course “[Optimierung in Industrie und Wirtschaft](#)” (2+1), Wintersemester 2016/2017, Friedrich-Alexander-Universität Erlangen-Nürnberg

Distinctions

- 2013 MERIT Visiting Scholar at the University of Melbourne, Australia
- 2007 ADONET Young Researcher Fellowship at ELTE University, Budapest, Hungary
- 2007–2015 Member of the Berlin Mathematical School
- 2006 Study Abroad Scholarship of the German Academic Exchange Service
- 2005–2008 Member of the German National Merit Foundation

Refereeing activities

- 2017 Programme committee member of [SEA 2017](#) and [CPAIOR 2017](#)
- 2016 Programme committee member of the [Int'l Workshop on Optimization Challenges in the Evolution of Electricity Networks to Smart Grids](#)
- 2016 Reviewer for the [National Science Center Poland](#)
- since 2016 Examiner for one PhD thesis and two bachelor's theses
- since 2015 Technical Editor of [Mathematical Programming Computation](#)
- since 2008 Reviewer for Applied Mathematics and Computations (since 2008), for the CPAIOR conference series (since 2010), for Mathematical Programming, Annals of Operations Research, and Optimization Methods and Software (since 2012), for the IPCO conference series (since 2013), for Computational Optimization and Applications, Engineering Optimization, Optimization Letters, the European Journal of Operational Research, and the INFORMS Journal on Computing (since 2014), for Mathematical Programming Computation (since 2015), for ACM Transactions on Mathematical Software, the SIAM Journal on Matrix Analysis and Applications, and Nature Scientific Reports (since 2016)

Languages

German (native), English (fluent), Hungarian (basic), Latin (basic)