

# CURRICULUM VITAE

MILAN HLADÍK



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## CONTACT

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## EDUCATION AND ACADEMIC DEGREES

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| 2022        | Prof. at Charles University  |
| 2015        | Doc. at Charles University, habilitation thesis: Interval linear algebra   |
| 2003 – 2006 | PhD study at Charles University, Faculty of Mathematics and Physics,<br>branch of study: Econometrics and operations research,<br>PhD thesis: Explicit description of supporting and separating hyperplanes<br>of convex polyhedral sets depending on parameters,<br>(supervisor: Libuše Grygarová). |
| 1997 – 2003 | Master study at Charles University, Faculty of Mathematics and Physics,<br>study program: Computer science,<br>specialization: Discrete mathematics and optimization,<br>thesis: Postoptimal analysis for transportation problem,<br>(supervisor: Libuše Grygarová).                                 |

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## TEACHING EXPERIENCES

at Faculty of Mathematics and Physics, Charles University (2003–?):

- basic course in Linear algebra I, II and III, advanced lectures in Integer programming, Multicriteria optimization, Fundamentals of nonlinear optimization, Nonlinear optimization algorithms, Discrete and continuous optimization.
- introducing and teaching Interval methods

- introducing and leading Optimization seminar
- teaching assistant of Discrete mathematics, Graph theory and combinatorics I, Algorithms and data structures II (besides the aforementioned).

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#### WORKING EXPERIENCES

- 2022 – ? Full professor at Charles University, Faculty of Mathematics and Physics, Department of Applied Mathematics
- 2012 – ? External researcher at Prague University of Economics and Business, Faculty of Informatics and Statistics, Department of Econometrics
- 2015 – 2022 Associate professor at Charles University, Faculty of Mathematics and Physics, Department of Applied Mathematics
- 2009 – 2015 Assistant professor at Charles University, Faculty of Mathematics and Physics, Department of Applied Mathematics
- 2008 (17 December 2007 – 31 August 2008) Postdoc position in COPRIN team at INRIA, Sophia Antipolis, France. Research subject: Interval linear algebra.
- 2006 – 2009 Junior researcher at Charles University, Faculty of Mathematics and Physics, Department of Applied Mathematics

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#### ACADEMIC EXPERIENCES

- 2019 – ? vicehead of the Department of Applied Mathematics
- 2015 – ? head of Optimization Division at the Department of Applied Mathematics
- 2012 – 2015 scientific secretary at the Department of Applied Mathematics

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#### MISCELLANEA

- 2016 the author of a new logo of the Department of Applied Mathematics

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#### GUESTS

- 2019 *Moslem Zamani*, University of Tehran, Iran  
topic: Error bounds for the absolute value equations
- 2015 *Marzieh Dehghani-Madiseh*, Amirkabir Univ. of Technology, Tehran, Iran  
topic: New methods in interval matrix computations
- 2015 *Snehashish Chakraverty*, National Institute of Technology Rourkela, India  
topic: Interval linear equations
- 2012 *Sanaz Rivaz*, Shahid Bahonar University of Kerman, Kerman, Iran,  
topic: Multiobjective linear programming with interval coefficients

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## POSTDOCS

2019 – 2022      *Hossein Moosaei*, University of Bojnord, Iran  
topic: Interval methods for global optimization

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## VISITS

2023              University of Salerno, Italy, February 5–12, hosted by *Raffaele Cerulli*  
2019              University of Salerno, Italy, December 10–15, hosted by *Raffaele Cerulli*  
2018              project Auctus, INRIA Bordeaux – Sud-Ouest, France, August 20–26, hosted  
by *David Daney*  
2018              University of Salerno, Italy, June 12–17, hosted by *Raffaele Cerulli*  
2018              University of Salerno, Italy, February 11–16, hosted by *Raffaele Cerulli*

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## STUDENTS

- Bachelor's students: 15 defended
- Master's students: 6 defended
- PhD students: 2 defended
  - *Martin Schmid* (2021), Search in imperfect information games, second at the 2014 Annual Computer Poker Competition, the 2017 award of ministry of education for an excellent research results, Matoušek prize winner, 2015 and 2017
  - *Jaroslav Horáček* (2019), Interval linear and nonlinear systems, young scientists award from MatTriad'13 and invited speaker to MatTriad'15,

PhD students: 3 currently under supervision

- *Martin Černý* (since 2021), Cooperative games with incomplete information
  - *Elif Garažová* (since 2016), Interval linear programming
  - *Matej Moravčík* (since 2014), Algorithms for extensive form games with imperfect information
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## RESEARCH AREA AND AREA OF INTEREST

Interval analysis:

- Interval-valued linear systems and interval matrices; Numerical analysis and matrix theory; Interval-valued regression problems and statistics

Optimization and operations research:

- Global optimization; Linear programming; Multiobjective optimization; Parametric programming and sensitivity analysis; Game theory

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## COLLABORATION

- *Theoretical properties and interval methods for parametric linear systems* (2015-2017), bilateral agreement, E.D. Popova (Bulgarian Academy of Sciences) and M. Hladík (Charles University in Prague)
- *Data analytics for the optimization of industrial processes and flows under uncertainty* (2018), program for PhD students in Physics, Mathematics and Applications – Curriculum Mathematics, at University of Salerno

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## MEMBERSHIP

- iSoGO – International Society of Global Optimization (since 2018)
- ČSOV – Czech Society for Operations Research (since 2017)
- ILAS – International Linear Algebra Society (since 2016)
- SIAM – Society for Industrial and Applied Mathematics (since 2015)
- JČMF – Union of Czech Mathematicians and Physicists (since 2010)
- EUROPT – The Continuous Optimization Working Group of EURO (since 2008)

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## INVITED AND PLENARY TALKS AT CONFERENCES AND WORKSHOPS

- *Absolute value programming*, 52nd Annual Iranian Mathematics Conference, AIMC 2021, August 30 – September 2, 2021, Kerman, Iran.
- *The role of interval linear algebra in global optimization*, 1st International Workshop on Trusted Numerical Computations, TNC 2018, June 19–20, Krakow, Poland. Minisymposium at International Conference on Emerging Trends in Applied Mathematics and Mechanics, ETAMM 2018.
- *Interval robustness in linear programming* (in czech), 20th winter school of JČMF, ROBUST 2018, January 21–26, Rybník, Czech Republic.
- *Introduction to interval computation and numerical verification*, invited two lectures, Seminar of numerical analysis and winter school, SNA 2017, January 30 – February 3, 2017, Ostrava, Czech Republic.
- *Interval Programming* (with M. Černý, invited series of 8 lectures), workshop for the 7th International Conference of Iranian Operations Research Society, OR 2014, May 12–13, Semnan, Iran.
- *Optimization with uncertain, inexact or unstable data: Linear programming and the interval approach* (with M. Černý, invited lecture), 10th International Conference on Strategic Management and its Support by Information Systems, SMSIS 2013, August 29–30, Valašské Meziříčí, Czech Republic.

- *New directions in interval linear programming*, 15th GAMM-IMACS International Symposium on Scientific Computing, Computer Arithmetic and Verified Numerical Computations, SCAN 2012, September 23–29, Novosibirsk, Russia.
- *Algorithms, complexity and interval data* (with M. Černý, in czech), 17th summer school of JČMF, ROBUST 2012, September 9–14, Němčičky, Czech Republic.

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## EDITORIAL BOARD

### Editorial board membership

- Journal of Mathematical Modeling (since 2020)
- Mathematical Innovations (since 2019)
- European Journal of Operational Research (since 2018)
- Reliable Computing (since 2016)
- International Journal of Fuzzy Computation and Modelling (since 2013, Associate Editor since 2018)

### Guest editor:

- Special issue of Information Systems Frontiers: Machine Learning and Artificial Intelligence Information Systems, 2023, (guest editors: H. Moosaei, M. Hladík and P.M. Pardalos)
- Special issue of Annals of Operations Research: Robust Data Analysis and Its Applications, 2021, (guest editors: P.M. Pardalos, H. Moosaei, M. Hladík and M. Tanveer)
- Special issue of Applications of Mathematics from the International Conference on Matrix Analysis and its Applications, MAT-TRIAD 2019 (with M. Rozložník).
- Special issue of Reliable Computing from 8th Small Workshop on Interval Methods, SWIM 2015 (with L. Jaulin and N. Ramdani).

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## PROGRAM COMMITTEE MEMBERSHIP

- 16th Learning and Intelligent Optimization conference, *LION 2022*, Milos Island, Greece, June 5–10, 2022
- 15th Learning and Intelligent Optimization conference, *LION 2021*, Athens, Greece, June 20–25, 2021
- 6th World Congress on Global Optimization, *WCGO 2019*, Metz, France, July 8–10, 2019
- 14th Global Optimization Workshop, *LeGO 2018*, Leiden, The Netherlands, September 18–21, 2018
- 1st International Workshop on Trusted Numerical Computations, *TNC 2018*, Krakow, Poland, June 19–20, 2018
- The 7th International Conference of Iranian Operation Research Society, *ORO 2014*, Semnan, Iran, May 14–15, 2014

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## CONFERENCE ORGANIZATION

### Conferences:

- 6th International Conference on Dynamics of Information Systems, DIS 2023, September 3-6, 2023, Prague, Czech Republic. (jointly with P.M. Pardalos & H. Moosaei) <https://dis2023.ujep.cz/>
- International Conference on Matrix Analysis and its Applications, MAT-TRIAD 2019, September 8-13, 2019, Liblice, Czech Republic. (jointly with M. Rozložník) <http://mattriad.math.cas.cz/>
- 8th Small Workshop on Interval Methods, SWIM 2015, June 9-11, 2015, Prague, Czech Republic. <https://kam.mff.cuni.cz/conferences/swim2015/>

### Special sessions:

- Session on *Computer Algebra Systems and Interval Methods* at ACA 2023 – the 28th International Conference on Applications of Computer Algebra, July 17-21, 2023, Warsaw, Poland.
- Session on *Interval Matrices* at MAT-TRIAD 2019 – International Conference on MATRIX Analysis and its Applications, September 8-13, 2019, Liblice, Czech Republic.
- Session on *Interval Matrices* at MAT-TRIAD 2017 – International Conference on MATRIX Analysis and its Applications, September 25-29, 2017, Będlewo, Poland.

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## GRANT PROJECTS

### Principal investigator:

- *Global sensitivity analysis and stability in optimization problems*, 2022–2024, grant P403-22-11117S of the Czech Science Foundation.
- *Novel approaches for relaxation and approximation techniques in deterministic global optimization*, 2018–2020, grant P403-18-04735S of the Czech Science Foundation.
- *Interval methods for optimization problems*, 2013–2017, grant P402-13-10660S of the Czech Science Foundation.

### Team member:

- *Streaming financial data and related identification and optimization problems*, 2019–2021, grant GA19-02773S of the Czech Science Foundation, principal investigator M. Černý.
- *Decision making in uncertain environment: Stability analysis and robustification of optimization models*, 2016–2018, grant P403-16-00408S of the Czech Science Foundation, principal investigator M. Černý.
- *Center of excellence – Institute for Theoretical Computer Science*, 2012–2018, research center supported by the project P202/12/G061 of GACR, principal investigator J. Nešetřil.

- *Models of optimal economic decision making under instability, uncertainty and indeterminacy*, 2012–2015, grant P403/12/1947 of the Czech Science Foundation, principal investigator M. Černý.
  - *Center for Foundations of Modern Computer Science*, 2018–2023, Charles University research center in the program UNCE, UNCE/SCI/004, principal investigator J. Sgall.
  - *Center of Modern Computer Science*, 2012–2017, Charles University research center in the program UNCE, 204027/2012, principal investigator J. Sgall.
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## REFEREE

- Peer review activity: see <https://publons.com/author/1198622/>
  - Editors' Award for Excellence in Reviewing, by European Journal of Operational Research, 2018
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## PUBLICATIONS AND CITATIONS

- H-index: 19 by WoS, 20 by Scopus
  - 93 papers in impacted journals, 7 in non-impacted ones and 63 in conf. proceedings
  - non-self citations: 765 by WoS, 947 by Scopus
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## BOOKS AND BOOK CHAPTERS

- [1] M. Hladík. *Lineární algebra (nejen) pro informatiky*. MatfyzPress, Praha, 1st edition, 2019. In Czech.
  - [2] M. Hladík. Interval linear programming: A survey. In Z. A. Mann, ed., *Linear Programming – New Frontiers in Theory and Applications*, chapter 2, pages 85–120. Nova Science Publishers, New York, 2012.
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## PAPERS IN JOURNALS

- [1] M. Hladík. Properties of the solution set of absolute value equations and the related matrix classes. *SIAM J. Matrix Anal. Appl.*, 44(1):175–195, March 2023.
- [2] H. Moosaei, M. A. Ganaie, M. Hladík, and M. Tanveer. Inverse free reduced universum twin support vector machine for imbalanced data classification. *Neural Netw.*, 157:125–135, January 2023.
- [3] M. Hladík and H. Moosaei. Some notes on the solvability conditions for absolute value equations. *Optim. Lett.*, 17(1):211–218, January 2023.
- [4] H. Moosaei, A. Mousavi, M. Hladík, and Z. Gao. Sparse l1-norm quadratic surface support vector machine with universum data. *Soft Comput.*, 27(9):5567–5586, May 2023.
- [5] M. Zamani and M. Hladík. Error bounds and a condition number for the absolute value equations. *Math. Program.*, 198(1):85–113, March 2023.

- [6] M. Černý, M. Rada, J. Antoch, and M. Hladík. A class of optimization problems motivated by rank estimators in robust regression. *Optim.*, 71(8):2241–2271, 2022.
- [7] H. Moosaei, F. Bazikar, S. Ketabchi, and M. Hladík. Universum parametric-margin  $\nu$ -support vector machine for classification using the difference of convex functions algorithm. *Appl. Intell.*, 52(3):2634–2654, 2022.
- [8] H. Moosaei and M. Hladík. Least squares approach to K-SVCR multi-class classification with its applications. *Ann. Math. Artif. Intell.*, 90:873–892, 2022.
- [9] D. Hartman, M. Hladík, and D. Říha. Computing the spectral decomposition of interval matrices and a study on interval matrix powers. *Appl. Math. Comput.*, 403:126174:1–13, 2021.
- [10] M. Hladík. Stability of the linear complementarity problem properties under interval uncertainty. *Cent. Eur. J. Oper. Res.*, 29:875–889, September 2021.
- [11] M. Hladík, M. Černý, and M. Rada. A new polynomially solvable class of quadratic optimization problems with box constraints. *Optim. Lett.*, 15(6):2331–2341, September 2021.
- [12] M. Hladík, L. V. Kolev, and I. Skalna. Linear interval parametric approach to testing pseudoconvexity. *J. Glob. Optim.*, 79(2):351–368, 2021.
- [13] S. Ketabchi, H. Moosaei, and M. Hladík. On the minimum-norm solution of convex quadratic programming. *RAIRO-Oper. Res.*, 55(1):247–260, 2021.
- [14] H. Moosaei and M. Hladík. On the optimal correction of infeasible systems of linear inequalities. *J. Optim. Theory Appl.*, 190(1):32–55, 2021.
- [15] H. Moosaei, S. Ketabchi, and M. Hladík. Optimal correction of the absolute value equations. *J. Glob. Optim.*, 79(3):645–667, 2021.
- [16] I. Skalna and M. Hladík. On preconditioning and solving an extended class of interval parametric linear systems. *Numer. Algorithms*, 87(4):1535–1562, 2021.
- [17] M. Zamani and M. Hladík. A new concave minimization algorithm for the absolute value equation solution. *Optim. Lett.*, 15(6):2241–2254, September 2021.
- [18] A. Batamiz, M. Allahdadi, and M. Hladík. Obtaining efficient solutions of interval multi-objective linear programming problems. *Int. J. Fuzzy Syst.*, 22(3):873–890, 2020.
- [19] D. Hartman and M. Hladík. Complexity of computing interval matrix powers for special classes of matrices. *Appl. Math.*, 65(5):645–663, 2020.
- [20] M. Hladík, M. Černý, and J. Antoch. EIV regression with bounded errors in data: total ‘least squares’ with Chebyshev norm. *Stat. Papers*, 61(1):279–301, 2020.
- [21] A. Mostafaei and M. Hladík. Optimal value bounds in interval fractional linear programming and revenue efficiency measuring. *Cent. Eur. J. Oper. Res.*, 28(3):963–981, 2020.
- [22] J. Novotná, M. Hladík, and T. Masařík. Duality gap in interval linear programming. *J. Optim. Theory Appl.*, 184(2):565–580, 2020.
- [23] M. Dehghani-Madiseh and M. Hladík. Enclosing the solution set of the parametric generalised sylvester matrix equation  $A(p)XB(p) + C(p)XD(p) = F(p)$ . *Int. J. Syst. Sci.*, 50(11):2153–2167, 2019.
- [24] E. Garajová and M. Hladík. On the optimal solution set in interval linear programming. *Comput. Optim. Appl.*, 72(1):269–292, 2019.
- [25] E. Garajová and M. Hladík. Checking weak optimality and strong boundedness in interval linear programming. *Soft Comput.*, 23(9):2937–2945, 2019.
- [26] E. Garajová, M. Hladík, and M. Rada. Interval linear programming under transforma-



- tions: optimal solutions and optimal value range. *Cent. Eur. J. Oper. Res.*, 27(3):601–614, September 2019.
- [27] E. Garajová, M. Hladík, and M. Rada. The best, the worst and the semi-strong: optimal values in interval linear programming. *Croat. Oper. Res. Rev.*, 10(2):201–209, 2019.
- [28] M. Hladík. Universal efficiency scores in data envelopment analysis based on a robust approach. *Expert Syst. Appl.*, 122:242–252, May 2019.
- [29] M. Hladík. Tolerances, robustness and parametrization of matrix properties related to optimization problems. *Optim.*, 68(2-3):667–690, 2019.
- [30] M. Hladík. Support set invariancy for interval bimatrix games. *Int. J. Uncertainty Fuzziness Knowl.-Based Syst.*, 27(02):225–237, 2019.
- [31] M. Hladík, M. Rada, S. Sitarz, and E. Garajová. Range sets for weak efficiency in multiobjective linear programming and a parametric polytopes intersection problem. *Optim.*, 68(2-3):645–666, 2019.
- [32] M. Hladík and I. Skalna. Relations between various methods for solving linear interval and parametric equations. *Linear Algebra Appl.*, 574:1–21, August 2019.
- [33] M. Rada, M. Hladík, and E. Garajová. Testing weak optimality of a given solution in interval linear programming revisited: NP-hardness proof, algorithm and some polynomially-solvable cases. *Optim. Lett.*, 13(4):875–890, June 2019.
- [34] I. Skalna and M. Hladík. Direct and iterative methods for interval parametric algebraic systems producing parametric solutions. *Numer. Linear Algebra Appl.*, 26(3):e2229:1–e2229:24, 2019.
- [35] M. Černý and M. Hladík. Possibilistic linear regression with fuzzy data: Tolerance approach with prior information. *Fuzzy Sets Syst.*, 340:127–144, 2018.
- [36] M. Dehghani-Madiseh and M. Hladík. Efficient approaches for enclosing the united solution set of the interval generalized Sylvester matrix equations. *Appl. Numer. Math.*, 126:18–33, 2018.
- [37] D. Hartman and M. Hladík. Regularity radius: Properties, approximation and a not a priori exponential algorithm. *Electron. J. Linear Algebra*, 33:122–136, 2018.
- [38] M. Hladík. Bounds for the solutions of absolute value equations. *Comput. Optim. Appl.*, 69(1):243–266, 2018.
- [39] M. Hladík. Testing pseudoconvexity via interval computation. *J. Glob. Optim.*, 71(3):443–455, 2018.
- [40] M. Hladík. The worst case finite optimal value in interval linear programming. *Croat. Oper. Res. Rev.*, 9(2):245–254, 2018.
- [41] M. Hladík. AE regularity of interval matrices. *Electron. J. Linear Algebra*, 33:137–146, 2018.
- [42] J. Horáček, M. Hladík, and J. Matějka. Determinants of interval matrices. *Electron. J. Linear Algebra*, 33:99–112, 2018.
- [43] J. Horáček, V. Koucký, and M. Hladík. Novel approach to computerized breath detection in lung function diagnostics. *Comput. Biol. Med.*, 101:1–6, 2018.
- [44] S. Chakraverty, M. Hladík, and N. R. Mahato. A sign function approach to solve algebraically interval system of linear equations for nonnegative solutions. *Fund. Inform.*, 152(1):13–31, 2017.
- [45] S. Chakraverty, M. Hladík, and D. Behera. Formal solution of an interval system of linear equations with an application in static responses of structures with interval forces. *Appl. Math. Model.*, 50:105–117, 2017.

- [46] M. Hladík. Transformations of interval linear systems of equations and inequalities. *Linear Multilinear Algebra*, 65(2):211–223, 2017.
- [47] M. Hladík. Interval convex quadratic programming problems in a general form. *Cent. Eur. J. Oper. Res.*, 25(3):725–737, 2017.
- [48] M. Hladík. On strong optimality of interval linear programming. *Optim. Lett.*, 11(7):1459–1468, 2017.
- [49] M. Hladík and M. Černý. Two optimization problems in linear regression with interval data. *Optim.*, 66(3):331–349, 2017.
- [50] J. A. dit Sandretto and M. Hladík. Solving over-constrained systems of non-linear interval equations - And its robotic application. *Appl. Math. Comput.*, 313:180–195, 2017.
- [51] I. Skalna and M. Hladík. A new algorithm for Chebyshev minimum-error multiplication of reduced affine forms. *Numer. Algorithms*, 76(4):1131–1152, 2017.
- [52] I. Skalna and M. Hladík. A new method for computing a p-solution to parametric interval linear systems with affine-linear and nonlinear dependencies. *BIT Numer. Math.*, 57(4):1109–1136, 2017.
- [53] M. Černý and M. Hladík. Inverse optimization: towards the optimal parameter set of inverse LP with interval coefficients. *Cent. Eur. J. Oper. Res.*, 24(3):747–762, 2016.
- [54] M. Hladík. An extension of the  $\alpha$ BB-type underestimation to linear parametric Hessian matrices. *J. Glob. Optim.*, 64(2):217–231, 2016.
- [55] M. Hladík. Robust optimal solutions in interval linear programming with forall-exists quantifiers. *Eur. J. Oper. Res.*, 254(3):705–714, 2016.
- [56] M. Hladík and M. Černý. First step immersion in interval linear programming with linear dependencies. *Bull. Iranian Math. Soc.*, 42(7):43–53, 2016.
- [57] M. Hladík and J. Rohn. Radii of solvability and unsolvability of linear systems. *Linear Algebra Appl.*, 503:120–134, 2016.
- [58] A. Mostafaei, M. Hladík, and M. Černý. Inverse linear programming with interval coefficients. *J. Comput. Appl. Math.*, 292:591–608, 2016.
- [59] S. Rivaz, M. A. Yaghoobi, and M. Hladík. Using modified maximum regret for finding a necessarily efficient solution in an interval MOLP problem. *Fuzzy Optim. Decis. Mak.*, 15(3):237–253, 2016.
- [60] A. Shahin, P. Hanafizadeh, and M. Hladík. Sensitivity analysis of linear programming in the presence of correlation among right-hand side parameters or objective function coefficients. *Cent. Eur. J. Oper. Res.*, 24(3):563–593, 2016.
- [61] M. Hladík. On the efficient Gerschgorin inclusion usage in the global optimization  $\alpha$ BB method. *J. Glob. Optim.*, 61(2):235–253, 2015.
- [62] M. Hladík. Complexity issues for the symmetric interval eigenvalue problem. *Open Math.*, 13(1):157–164, 2015.
- [63] M. Hladík. AE solutions and AE solvability to general interval linear systems. *Linear Algebra Appl.*, 465(0):221–238, 2015.
- [64] M. Hladík and M. Černý. Total least squares and Chebyshev norm. *Procedia Comput. Sci.*, 51(0):1791–1800, 2015.
- [65] M. Hladík and E. D. Popova. Maximal inner boxes in parametric AE-solution sets with linear shape. *Appl. Math. Comput.*, 270:606–619, 2015.
- [66] M. Černý and M. Hladík. The complexity of computation and approximation of the t-ratio over one-dimensional interval data. *Comput. Stat. Data Anal.*, 80(0):26–43, 2014.
- [67] M. Hladík. How to determine basis stability in interval linear programming. *Optim.*

- Lett.*, 8(1):375–389, 2014.
- [68] M. Hladík. New operator and method for solving real preconditioned interval linear equations. *SIAM J. Numer. Anal.*, 52(1):194–206, 2014.
- [69] M. Hladík. Strong solvability of linear interval systems of inequalities with simple dependencies. *Int. J. Fuzzy Comput. Model.*, 1(1):3–14, 2014.
- [70] M. Hladík. On approximation of the best case optimal value in interval linear programming. *Optim. Lett.*, 8(7):1985–1997, 2014.
- [71] M. Hladík and M. Černý. Tolerance approach to possibilistic nonlinear regression with interval data. *IEEE Trans. Cybern.*, 44(12):2509–2520, 2014.
- [72] M. Hladík and S. Ratschan. Efficient solution of a class of quantified constraints with quantifier prefix exists-forall. *Math. Comput. Sci.*, 8(3-4):329–340, 2014.
- [73] M. Černý, J. Antoch, and M. Hladík. On the possibilistic approach to linear regression models involving uncertain, indeterminate or interval data. *Inf. Sci.*, 244:26–47, 2013.
- [74] M. Hladík. Bounds on eigenvalues of real and complex interval matrices. *Appl. Math. Comput.*, 219(10):5584–5591, 2013.
- [75] M. Hladík. Weak and strong solvability of interval linear systems of equations and inequalities. *Linear Algebra Appl.*, 438(11):4156–4165, 2013.
- [76] M. Hladík and S. Sitarz. Maximal and supremal tolerances in multiobjective linear programming. *Eur. J. Oper. Res.*, 228(1):93–101, 2013.
- [77] E. D. Popova and M. Hladík. Outer enclosures to the parametric AE solution set. *Soft Comput.*, 17(8):1403–1414, 2013.
- [78] J. Horáček and M. Hladík. Computing enclosures of overdetermined interval linear systems. *Reliab. Comput.*, 19(2):142–155, 2013.
- [79] M. Černý and M. Hladík. Two complexity results on c-optimality in experimental design. *Comput. Optim. Appl.*, 51(3):1397–1408, 2012.
- [80] M. Hladík. Complexity of necessary efficiency in interval linear programming and multiobjective linear programming. *Optim. Lett.*, 6(5):893–899, 2012.
- [81] M. Hladík. Enclosures for the solution set of parametric interval linear systems. *Int. J. Appl. Math. Comput. Sci.*, 22(3):561–574, 2012.
- [82] M. Hladík and M. Černý. Interval regression by tolerance analysis approach. *Fuzzy Sets Syst.*, 193:85–107, 2012.
- [83] M. Hladík, D. Daney, and E. P. Tsigaridas. An algorithm for addressing the real interval eigenvalue problem. *J. Comput. Appl. Math.*, 235(8):2715–2730, 2011.
- [84] M. Hladík, D. Daney, and E. P. Tsigaridas. A filtering method for the interval eigenvalue problem. *Appl. Math. Comput.*, 217(12):5236–5242, 2011.
- [85] M. Hladík, D. Daney, and E. P. Tsigaridas. Characterizing and approximating eigenvalue sets of symmetric interval matrices. *Comput. Math. Appl.*, 62(8):3152–3163, 2011.
- [86] M. Hladík and L. Jaulin. An eigenvalue symmetric matrix contractor. *Reliab. Comput.*, 16:27–37, 2011.
- [87] M. Hladík. Optimal value bounds in nonlinear programming with interval data. *TOP*, 19(1):93–106, 2011.
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