

**UNIVERZITA KOMENSKÉHO
FAKULTA MATEMATIKY, FYZIKY A INFORMATIKY**

Zoznam publikačnej činnosti

RNDr. Mária Trnovská, PhD.

ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB01 Hamala, Milan [UKOMFKAMSs] (50%) - Trnovská, Mária [UKOMFKAMS] (50%): Nelineárne programovanie, teória a algoritmy. - 1. vyd. - Bratislava : EPOS, 2013. - 339 s.
Lit. 112 záz. n.
ISBN 978-80-8057-986-9

ADC Vedecké práce v zahraničných karentovaných časopisoch

ADC01 Ševčovič, Daniel [UKOMFKAMS] (50%) - Trnovská, Mária [UKOMFKAMS] (50%): Solution to the inverse Wulff problem by means of the enhanced semidefinite relaxation method
Lit. 138 záz. n., 5 obr., 2 tab.
In: Journal of Inverse and III-Posed Problems. - Vol. 23, No. 3 (2015), s. 263-285
Registrované v: wos, scopus

ADE Vedecké práce v ostatných zahraničných časopisoch

ADE01 Filová, Lenka [UKOMFKAMS] (40%) - Trnovská, Mária [UKOMFKAMS] (40%) - Harman, Radoslav [UKOMFKAMS] (20%): Computing maximin efficient experimental designs using the methods of semidefinite programming
Lit. 21 záz. n.
In: Metrika. - Vol. 75, No. 5 (2012), s. 709-719
Ohlasy (2):
[o3] 2014 Mandal, A. - Wong, W. K. - Yu, Y.: Algorithmic searches for optimal designs. In: Handbook of Design and Analysis of Experiments ; Handbooks of Modern Statistical Methods. Boca Raton : Chapman & Hall/CRC, 2014, S. 30
[o1] 2015 Duarte, B. P. M. - Wong, W. K.: Finding bayesian optimal designs for nonlinear models: A semidefinite programming-based approach. In: Source of the Document International Statistical Review, Vol. 83, No. 2, 2015, s. 239-262 - SCOPUS

ADF Vedecké práce v ostatných domácich časopisoch

ADF01 Harman, Radoslav [UKOMFKAMS] (50%) - Trnovská, Mária [UKOMFKAMS] (50%): Approximate D-optimal designs of experiments on the convex hull of a finite set of information matrices
Lit. 8 záz. n.
In: Mathematica Slovaca. - Vol. 59, No. 6 (2009), s. 693-704
Ohlasy (11):
[o1] 2010 Yu, Y.: Monotonic convergence of a general algorithm for computing optimal designs. In: Annals of Statistics, Vol. 38, No. 3, 2010, s. 1593-1606 - SCI ; SCOPUS
[o1] 2012 Holland-Letz, T. - Dette, H. - Renard, D.: Efficient Algorithms for Optimal Designs with Correlated Observations in Pharmacokinetics and Dose-Finding Studies. In: Biometrics, Vol. 68, No. 1, 2012, s. 138-146 - SCI ; SCOPUS
[o1] 2012 Martin-Martin, R. - Rodriguez-Aragon, L. J. - Torsney, B.: Multiplicative algorithm for computing D-optimum designs for pVT measurements. In: Chemometrics and Intelligent Laboratory Systems, Vol. 111, No. 1, 2012, s. 20-27 - SCI ; SCOPUS
[o1] 2012 Yi, R. - Papalambros, P. Y.: On the use of active learning in engineering design. In: Proceedings of the ASME 2012 International Design Engineering Technical Conferences and Computers and Information in

Engineering Conference, Vol.3, Parts A and B. New York : American Society of Mechanical Engineers, 2012, S. 89-98 - CPCI-S ; SCOPUS

[o1] 2013 Lu, Z. - Pong, T. K.: Computing optimal experimental designs via interior point method. In: SIAM Journal on Matrix Analysis and Applications, Vol. 34, No. 4, 2013, s. 1556-1580 - SCI ; SCOPUS

[o1] 2013 Pronzato, L.: A delimitation of the support of optimal designs for Kiefer's $\phi(p)$ -class of criteria. In: Statistics and Probability Letters, Vol. 83, No. 12, 2013, s. 2721-2728 - SCI ; SCOPUS

[o3] 2013 Pronzato, L. - Pázman, A.: Design of experiments in nonlinear models : Asymptotic normality, optimality criteria and small-sample properties. New York : Springer, 2013, S. 375

[o1] 2013 Sagnol, G.: Approximation of a maximum-submodular-coverage problem involving spectral functions, with application to experimental designs. In: Discrete Applied Mathematics, Vol. 161, No. 1-2, 2013, s. 258-276 - SCI ; SCOPUS

[o1] 2014 Pronzato, L. - Zhigljavsky, A. A.: Algorithmic construction of optimal designs on compact sets for concave and differentiable criteria. In: Journal of Statistical Planning and Inference, Vol. 154, No. 1, 2014, s. 141-155 - SCI ; SCOPUS

[o1] 2015 Marechal, P. - Ye, J. J. - Zhou, J.: K-optimal design via semidefinite programming and entropy optimization. In: Mathematics of Operations Research, Vol. 40, No. 2, 2015, s. 495-511 - SCI ; SCOPUS

[o1] 2015 Ucinski, D.: An algorithm for construction of constrained d-optimum designs. In: Springer Proceedings in Mathematics and Statistics, Vol. 122, 2015, s. 461-468 - SCOPUS

ADF02 Trnovská, Mária [UKOMFKAMS] (100%) : Limiting behavior and analyticity of two special types of infeasible weighted central paths in semidefinite programming

Lit. 18 záz. n.

In: Acta Mathematica Universitatis Comenianae-New Series. - Vol. 79, No. 1 (2010), s. 111-127

ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADM01 Ševčovič, Daniel [UKOMFKAMS] (50%) - Trnovská, Mária [UKOMFKAMS] (50%): Application of the enhanced semidefinite relaxation method to construction of the optimal anisotropy function

Lit. 25 záz. n., 6 obr.

In: IAENG International Journal of Applied Mathematics. - Vol. 45, No. 3 (2015), s. 227-234

Registrované v: scopus

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 Halická, Margaréta [UKOMFKAMS] (50%) - Trnovská, Mária [UKOMFKAMS] (50%): Limiting behaviour and analyticity of weighted central paths in semidefinite programming

Lit. 20 záz. n.

In: Optimization Methods and Software. - Vol. 25, No. 2, Spec. Issue (2010), s. 247-262

[Operational Research 2007 : European Conference. 22nd, Prague, 8.-11.7.2007]

URL:

http://www.optimization-online.org/DB_HTML/2007/12/1866.htmlhttp://www.optimization-online.org/DB_FILES/2007/12/1866.pdf

POZNÁMKA:

Vyšlo aj ako abstrakt Analyticity and limiting behavior of weighted central paths in SDP - EURO XXII : European Conference on Operational Research : Book of Abstracts. - Prague : University of Economics, 2007. - S. 59

Vyšlo aj ako preprint - Optimization Online. - Philadelphia : Mathematical Programming Society, 2007, 24 s. - Ohlasy (2):

[o1] 2011 Sim, C. K.: Asymptotic Behavior of Underlying NT Paths in Interior Point Methods for Monotone Semidefinite Linear Complementarity Problems. In: Journal of Optimization Theory and Applications, Vol. 148, No. 1, 2011, s. 79-106 - SCI ; SCOPUS

[o1] 2011 Sim, C. K.: Superlinear convergence of an infeasible predictor-corrector path-following interior point algorithm for a semidefinite linear complementarity problem using the Helmborg-Kojima-Monteiro direction. In: SIAM Journal on Optimization, Vol. 21, No. 1, 2011, s. 102-126 - SCI ; SCOPUS

AFC02 Trnovská, Mária [UKOMFKAMS] (50%) - Ševčovič, Daniel [UKOMFKAMS] (50%): Enhanced

semi-definitive relaxation method with application to optimal anisotropy function construction

Lit. 10 zázň., 10 obr.

In: Proceedings of the 4th International Symposium on Operational Research and 26th National Conference on Operational Research. - Chania : Hellenic Operational Research Society, 2015. - S. 241-246. - ISBN

978-618-80361-4-7

[Operational Research 2015 : International Symposium. 4th, Chania, 4.-6.6.2015]

[Operational Research 2015 : National Conference. 26th, Chania, 4.-6.6.2015]

URL: <http://www.helors2015.tuc.gr/Proceedings.pdf>

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 Trnovská, Mária [UKOMFKAMS] (100%) : Strong duality conditions in semidefinite programming

Lit. 4 zázň.

In: Journal of Electrical Engineering. - Vol. 56, No. 12/s (2005), s. 87-89

[ISCAM 2005 : International Conference in Applied Mathematics for Undergraduate and Graduate Students.

Bratislava, 15.-16.4.2005]

Ohlasy (5):

[o1] 2011 Bertrand, A. - Moonen, M.: Consensus-based distributed total least squares estimation in Ad Hoc wireless sensor networks. In: Source of the Document IEEE Transactions on Signal Processing Vol. 59, No. 5, 2011, Art. No. 5702367, s.2320-2330 - SCI ; SCOPUS

[o1] 2014 Henrion, D. - Korda, M.: Convex computation of the region of attraction of polynomial control systems. In: IEEE Transactions on Automatic Control, Vol. 59, No. 2, 2014, Art. No. 6606873, s. 297-312 - SCI ; SCOPUS

[o1] 2014 Majumdar, A. - Vasudevan, R. - Tobenkin, M. M. - Tedrake, R.: Convex optimization of nonlinear feedback controllers via occupation measures. In: International Journal of Robotics Research, Vol. 33, No. 9, 2014, s. 1209-1230 - SCI ;SCOPUS

[o1] 2015 Parhizkar, R. - Barbotin, Y. - Vetterli, M.: Sequences with minimal time-frequency uncertainty. In: Applied and Computational Harmonic Analysis, Vol. 38, No. 3, 2015, s. 452-468 - SCI ; SCOPUS

[o1] 2015 Shia, V. - Vasudevan, R. - Bajcsy, R. - Tedrake, R.: Convex computation of the reachable set for controlled polynomial hybrid systems. In: Proceedings of the IEEE Conference on Decision and Control 2014. Los Angeles : IEEE, 2015, Art. No. 7039612, S. 1499-1506 - SCOPUS

AFD02 Trnovská, Mária [UKOMFKAMS] (100%) : Weighted central path in semidefinite programming associated with symmetrization map $(xs+sx)/2$

Lit. 9 zázň.

In: Journal of Electrical Engineering. - Vol. 57, No. 7/s (2006), s. 57-60

[ISCAM 2006 : International Conference in Applied Mathematics for Undergraduate and Graduate Students.

Bratislava, 7.-8.4.2006]

POZNÁMKA:

Vyšlo aj ako abstrakt - ISCAM 2006 Abstracts. - Bratislava : Slovak University of Technology, 2006. - S. 28

AFD03 Trnovská, Mária [UKOMFKAMS] (100%) : Existence of weighted interior-point paths in semidefinite programming

Lit. 13 zázň.

In: 15th International Scientific Conference on Mathematical Methods in Economics and Industry :

Proceedings [elektronický zdroj]. - Košice : UPJŠ, 2007. - S. 191-203 [CD ROM]. - ISBN 978-80-89089-58-1

[MMEI 2007 : Mathematical Methods in Economics and Industry : International Scientific Conference. 15th, Herľany, 3.-7.6.2007]

POZNÁMKA:

Vyšlo aj ako abstrakt - 15th International Scientific Conference on Mathematical Methods in Economics and Industry : Book of Abstracts. - Košice : UPJŠ, 2007. - S. 32. - ISBN 978-80-89089-57-4

AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií

AFG01 Trnovská, Mária [UKOMFKAMS] (100%) : Convex optimization methods in optimal experimental design

Popis urobený 16.2.2012

In: Workshop on Scientific Computing [elektronický zdroj]. - Děčín : Department of Mathematics - FNSPE CTU, 2011. - 1 s. [online]
[WSC 2011 : Workshop on Scientific Computing. Děčín, 10.-13.6.2011]

AFG02 Trnovská, Mária [UKOMFKAMS] (100%) : Computing optimal design of experiments for linear parameter subsystem

Popis urobený 10.8.2012

In: Workshop on Scientific Computing [elektronický zdroj]. - Děčín : Department of Mathematics - FNSPE CTU, 2012. - 1 s. [online]

[WSC 2012 : Workshop on Scientific Computing. Děčín, 15.-18.6.2012]

AFG03 Trnovská, Mária [UKOMFKAMS] (100%) : Robust dynamic stochastic portfolio optimization

Popis urobený 26.8.2013

In: EURO-INFORMS 26th European Conference on Operational Research : Abstract Book [elektronický zdroj]. - Roma : Sapienza Università di Roma, 2013. - S. 118 [online]

[EURO-INFORMS 2013 : European Conference on Operational Research. 26th, Roma, 1.-4.7.2013]

URL: <http://euro2013.org/wp-content/uploads/program-euro26.pdf>

DAI Dizertačné a habilitačné práce

DAI01 Trnovská, Mária [UKOMFKAMS] (100%): Weighted central paths in semidefinite programming. -

Bratislava : [s.n.], 2008. - 141 s.

Doktorandská dizertačná práca (PhD.) - Univerzita Komenského, Bratislava, 2008

Lit. 81 záz. n.

FAI Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)

FAI01 - Trnovská, Mária [UKOMFKAMS] (100%): 18th International Conference on Mathematical Methods in Economy and Industry and Summer School on Computational Finance : Book of Abstracts and Conference Programme. - 1. vyd. - Bratislava : Faculty of Mathematics, Physics and Informatics Comenius University, 2014. - 77 s.

ISBN 978-80-8147-022-6

[MMEI 2014 : Mathematical Methods in Economy and Industry : International Conference. 18th, Smolenice, 8.-12.9.2014]

[Summer School on Computational Finance. Smolenice, 8.-12.9.2014]

Štatistika kategórií (Záznamov spolu: 16):

ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách (1)

ADC Vedecké práce v zahraničných karentovaných časopisoch (1)

ADE Vedecké práce v ostatných zahraničných časopisoch (1)

ADF Vedecké práce v ostatných domácich časopisoch (2)

ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (1)

AFC Publikované príspevky na zahraničných vedeckých konferenciách (2)

AFD Publikované príspevky na domácich vedeckých konferenciách (3)

AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií (3)

DAI Dizertačné a habilitačné práce (1)

FAI Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...) (1)

Štatistika ohlasov (20):

[o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (18)

[o3] Citácie v zahraničných publikáciách neregistrované v citačných indexoch (2)

29.9.2015