



OTTO VON GUERICKE
UNIVERSITÄT
MAGDEBURG

MATH

FAKULTÄT FÜR
MATHEMATIK

Publikationsbericht 2022

Institut für Mathematische Optimierung

INSTITUT FÜR MATHEMATISCHE OPTIMIERUNG

1. LEITUNG

Prof. Dr. Volker Kaibel (geschäftsführender Leiter)

Prof. Dr. Sebastian Sager

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Daes, Endric; Friedrich, Ulf

Computing optimized path integrals for knapsack feasibility

INFORMS journal on computing/ Institute for Operations Research and the Management Sciences - Linthicum, Md.: INFORMS, Bd. 34 (2022), 4, S. 2163-2176;

[Imp.fact.: 3.288]

Hahn, Mirko; Leyffer, Sven; Sager, Sebastian

Binary optimal control by trust-region steepest descent

Mathematical programming - Berlin: Springer . - 2022, insges. p44 S.;

[Imp.fact.: 3.06]

Khodabandeh, Pouria; Kayvanfar, Vahid; Rafiee, Majid; Werner, Frank

Home health care planning with the consideration of flexible starting/ending points and service features

Axioms - Basel: MDPI, 2022, Bd. 11 (2022), 8, insges. 18 S.;

[Imp.fact.: 1.824]

Le, Do Duc; Merkert, Maximilian; Sorgatz, Stephan; Hahn, Mirko; Sager, Sebastian

Autonomous traffic at intersections - an optimization-based analysis of possible time, energy, and CO₂ savings

Networks - New York, NY: Wiley, Bd. 79 (2022), 3, S. 338-363; <http://dx.doi.org/10.1002/net.22078>
10.25673/92608

[Imp.fact.: 5.059]

Naseri, Atefeh; Kayvanfar, Vahid; Sheikh, Shaya; Werner, Frank

Social medias role in achieving marketing goals in Iran during the COVID-19 pandemic

Social Sciences - Basel: MDPI, Bd. 11 (2022), 11, insges. 19 S.;

Rafiee, Majid; Kayvanfar, Vahid; Mohammadi, Atieh; Werner, Frank

A robust optimization approach for a cellular manufacturing system considering skill-leveled operators and multi-functional machines

Applied mathematical modelling - Amsterdam [u.a.]: Elsevier Science . - 2022;

[Imp.fact.: 5.129]

Thünen, Anna; Leyffer, Sven; Sager, Sebastian

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[Imp.fact.: 1.955]

Werner, Frank

Special Issue 1st Online Conference on Algorithms (IOCA2021)

Algorithms - Basel: MDPI, Bd. 15 (2022), 11, insges. 2 S.;

Werner, Frank

The 1st International Electronic Conference on Algorithms (IOCA 2021)

Computer sciences & mathematics forum - Basel: MDPI, Bd. 2 (2022), 1, insges. 2 S.;

Zeile, Clemens; Weber, Tobias; Sager, Sebastian

Combinatorial integral approximation decompositions for mixed-integer optimal control Algorithms - Basel: MDPI, Bd. 15 (2022), 4, insges. 26 S.;

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Kayvanfar, Vahid; Baziyad, Hamed; Sheikh, Shaya; Werner, Frank

Efficiency evaluation of banks with many branches using a heuristic framework and dynamic data envelopment optimization approach - a real case study
De.arxiv.org - [S.l.]: Arxiv.org . - 2022, insges. 22 S.;

Khodabandeh, Pouria; Kayvanfar, Vahid; Rafiee, Majid; Werner, Frank

Home health care planning with considering flexible starting/ending points and service features
De.arxiv.org - [S.l.]: Arxiv.org . - 2022, insges. 17 S.;

Vakhania, Nodari; Werner, Frank; Reynoso, Alejandro

Scheduling a single machine with compressible jobs to minimize maximum lateness
De.arxiv.org - [S.l.]: Arxiv.org . - 2022, insges. 20 S.;

Zabihian-Bisheh, Abed; Vandchali, Hadi Rezaei; Kayvanfar, Vahid; Werner, Frank

A multi-objective sustainable planning for a real hazardous waste production problem
De.arxiv.org - [S.l.]: Arxiv.org . - 2022, insges. 25 S.;

BEGUTACHTETE BUCHBEITRäge

Bärmann, Andreas; Gemander, Patrick; Martin, Alexander; Merkert, Maximilian

Energy-efficient timetabling in a German underground system
German Success Stories in Industrial Mathematics - Cham: Springer International Publishing; Bock, Hans Georg . - 2022, S. 105-108 - (Mathematics in industry; volume 35);

Hahn, Mirko; Kirches, Christian; Manns, Paul; Sager, Sebastian; Zeile, Clemens

Decomposition and approximation for PDE-constrained mixed-integer optimal control
Non-Smooth and Complementarity-Based Distributed Parameter Systems - Cham: Springer International Publishing; Hintermüller, Michael . - 2022, S. 283-305 - (International series of numerical mathematics; volume 172);

WISSENSCHAFTLICHE MONOGRAFIEEN

Burtseva, Larysa; Werner, Frank; Romero, Rainier; Garcia-Mata, Carmen L.; Flores-Rios, Brenda L.; Yaurima, Victor; Delgado-Arana, Eddy M.; Gonzalez-Navarro, Felix F.; Lopez-Morteo, Gabriel A.

Production planning and scheduling for lot processing
Cambridge Scholars Publishing, 2022, 405 Seiten

HERAUSGEBERSCHAFTEN

Wagner, Gerd; Werner, Frank; De Rango, Floriano

Proceedings of the 12th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2022)
[Setúbal, Portugal]: SCITEPRESS - Science and Technology Publications, Lda., 2022, 1 Online-Ressource;
Kongress: International Conference on Simulation and Modeling Methodologies, Technologies and Applications 12 (Lisbon, Portugal : 2022.07.14-16)

Werner, Frank

The 1st International Electronic Conference on Algorithms
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Kongress: International Electronic Conference on Algorithms 1 (online : 2021.09.27-10.10)

DISSERTATIONEN

Boege, Tobias; Kahle, Thomas [AkademischeR BetreuerIn]; Kaibel, Volker [AkademischeR BetreuerIn]

The Gaussian conditional independence inference problem

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (ii, 143 Seiten, 1,33 MB), Formeln;

Lobe, Elisabeth; Kaibel, Volker [AkademischeR BetreuerIn]

Combinatorial problems in programming quantum annealers

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (II, 156, Seite III-X, 2,5 MB), Illustrationen;