

Publikationsbericht 2007

Institut für Mathematische Optimierung



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1. Leitung

Prof. Dr. rer.nat.habil. Robert Weismantel (geschäftsführender Leiter)
Prof. Dr. rer. nat.habil. Dr. h.c. Eberhard Girlich
Prof. Dr. rer.nat.habil. Friedrich Juhnke
Prof. Dr. rer.nat.habil. Volker Kaibel

2. Hochschullehrer

Prof. Dr. rer. nat.habil. Dr. h.c. Eberhard Girlich
Prof. Dr. rer.nat.habil. Friedrich Juhnke
Prof. Dr. rer.nat.habil. Volker Kaibel
Prof. Dr. rer.nat.habil. Robert Weismantel
apl. Prof. Dr. rer.nat.habil. Frank Werner
Prof. em. Dr. rer.nat.habil. Karl Manteuffel

3. Veröffentlichungen

Originalartikel in begutachteten internationalen Zeitschriften

Aschenbrenner, Matthias; Hemmecke, Raymond
Finiteness theorems in stochastic integer programming
In: Foundations of computational mathematics. - New York, NY: Springer, Bd. 7.2007, 2, S. 183-227; [Link unter URL](#)
[Imp.fact.: 1.269]

Blazewicz, Jacek; Pesch, Erwin; Sterna, Małgorzata; Werner, Frank
A note on the two machine job shop with the weighted late work criterion
In: Journal of scheduling. - Boston, Mass.[u.a.]: Kluwer Academic Publ., Bd. 10.2007, 2, S. 87-95; [Link unter URL](#)
[Imp.fact.: 0.852]

Brucker, Peter; Sotskov, Yuri N. ; Werner, Frank
Complexity of shop-scheduling problems with fixed number of jobs - a survey
In: Mathematical methods of operations research. - Heidelberg: Physica-Verl., Bd. 65.2007, 3, S. 461-481;
[Link unter URL](#)
[Imp.fact.: 0.259]

De Loera, Jesús A. ; Hemmecke, Raymond; Köppe, Matthias; Weismantel, Robert
FPTAS for optimizing polynomials over the mixed-integer points of polytopes in fixed dimension
In: Mathematical programming. - Berlin: Springer; [Link unter URL](#), 2007
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In: Discrete optimization. - New York, NY [u.a.]: Elsevier, insges. 15 S.; [Abstract unter URL](#), 2007

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Gärtner, Bernd; Kaibel, Volker

Two new bounds for the random-edge simplex algorithm

In: Society for Industrial and Applied Mathematics: SIAM journal on discrete mathematics. - Philadelphia, Pa. : Soc., Bd. 21.2007, 1, S. 178-190; [Link unter URL](#)
[Imp.fact.: 0.518]

Haus, Utz-Uwe; Michaels, Dennis; Seidel-Morgenstern, Andreas; Weismantel, Robert

A method to evaluate the feasibility of TMB chromatography for reduced efficiency and purity requirements based on discrete optimization

In: Computers & chemical engineering. - Amsterdam [u.a.]: Elsevier, Bd. 31.2007, 11, S. 1525-1534; [Link unter URL](#)
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[Imp.fact.: 0.667]

Hemmecke, Raymond; Weismantel, Robert

Representation of sets of lattice points

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[Imp.fact.: 1.238]

Inderfurth, Karl; Kovalyov, Mikhail Y. ; Ng, C. T. ; Werner, Frank

Cost minimizing scheduling of work and rework processes on a single facility under deterioration of reworkables

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[Imp.fact.: 1.008]

Jungwattanakit, Jitti; Reodecha, Manop; Chaovalltwongse, Paveena; Werner, Frank

Constructive and simulated annealing algorithms for hybrid flow shop problems with unrelated parallel machines

In: Thammasat international journal of science and technology. - Bangkok, Bd. 12.2007, 1, S. 31-41;
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Köppe, Matthias

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Kovalyov, Mikhail Y. ; Werner, Frank

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Wissenschaftliche Monografien

Michaels, Dennis

Discrete optimization techniques for nonlinear mixed-integer optimization problems arising from chemical engineering. - Zugl.: Magdeburg, Univ., Fak. für Mathematik, Diss., 2007; Tönning [u.a.]: Der Andere Verlag; XX, 115 S: graph. Darst.; 21 cm

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Boutejdar, Ahmed; Elsherbini, A. ; Omar, Abbas Sayed

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In: Mediterranean Microwave Symposium 2007. - Budapest, S. 121-124

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Boutejdar, Ahmed; Sherbini, Adel; Omar, Abbas Sayed

Improvement of bassband and sharpness factor of parallel coupled microstrip bandpass filter using discontinuities correction and DGS cells

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Jungwattanakit, Jitti; Reodecha, Manop; Chaovalitwongse, Paveena; Werner, Frank

Fuzzy dispatching rules for flexible flow shop problems with unrelated parallel machines for a continuous fuzzy domain

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