

Publikationsbericht 2006

Fakultät für Mathematik



Otto-von-Guericke-Universität Magdeburg

Fakultät für Mathematik

Universitätsplatz 2, Gebäude 02, 39106 Magdeburg
Tel. +49 (0)391 67 18663, Fax +49 (0)391 67 12758
fma@uni-magdeburg.de

1. Leitung

Prof. Dr. rer. nat. habil. Wolfgang Willems (Dekan ab 10/2006, Prodekan bis 09/2006)
Prof. Dr. rer. nat. habil. Gerald Warnecke (Prodekan ab 10/2006, Dekan bis 09/2006)
Prof. Dr. rer. nat. habil. Hans-Christoph Grunau (Studiendekan)

2. Institute

Institut für Algebra und Geometrie
Institut für Analysis und Numerik
Institut für Mathematische Optimierung
Institut für Mathematische Stochastik

3. Veröffentlichungen

Dissertationen

Esaulova, Veronica

Failure rates modelling for heterogenous populations. - Magdeburg, Univ., Fak. für Mathematik, Diss., 2006; [Link unter URL](#); 110 S.; 30 cm

Hertel, Doreen

Crosscorrelation properties between perfect sequences. - Magdeburg, Univ., Fak. für Mathematik, Diss., 2006; 90 S.: graph. Darst.; 30 cm

Institut für Algebra und Geometrie

Universitätsplatz 2, 39106 Magdeburg
Tel. +49 (0)391 67 18713 / 18321, Fax +49 (0)391 67 11213
kerstin.held@mathematik.uni-magdeburg.de oder
jeannette.polte@mathematik.uni-magdeburg.de

1. Leitung

Prof. Dr. Alexander Pott (geschäftsführender Leiter)
Prof. Dr. Wolfgang Willems
Jun.-Prof. Dr. Christian Bey
Dr. Achill Schürmann

2. Hochschullehrer

Juniorprofessor Dr. Christian Bey
Prof. Dr. Heidemarie Bräsel
Prof. Dr. Martin Henk
Prof. Dr. Herbert Henning
PD Dr. Thorsten Holm
Prof. Dr. Alexander Pott
Prof. Dr. Wolfgang Willems

3. Veröffentlichungen

Originalartikel in begutachteten internationalen Zeitschriften

Aliev, Iskander; Henk, Martin

Successive minima and best simultaneous diophantine approximations
In: Monatshefte für Mathematik. - Wien [u.a.]: Springer, S. 95-101; [Abstract unter URL](#), 2006
[Imp.fact.: 0.447]

Arasu, K. T. ; Chen, Yu Quin; Pott, Alexander

On abelian $(2^{2m+1}(2^{2m-1}+1), 2^{2m}(2^{2m+1}), 2^{2m})$ -difference sets
In: Journal of combinatorial theory / A. Series A. - Orlando, Fla. : Academic Press, S. 1120-1137; [Abstract unter URL](#)
[Imp.fact.: 0.576]

Bocian, Rafal; Holm, Thorsten; Skowroński, Andrzej

Derived equivalence classification of one-parametric self-injective algebras
In: Journal of pure and applied algebra. - Amsterdam: North-Holland Publ., S. 491-536;
[Abstract unter URL](#), 2006
[Imp.fact.: 0.551]

Bouyukliev, Iliya; Fack, Veerle; Willems, Wolfgang; Winne, Joost

Projective two-weight codes with small parameters and their corresponding graphs

In: Designs, codes and cryptography: an international journal. - Dordrecht [u.a.]: Springer Science + Business Media B.V, S. 59-78; [Abstract unter URL](#), 2006
[Imp.fact.: 0.661]

Bouyuklieva, Stefka; O'Brien, E. A. ; Willems, Wolfgang

The automorphism group of a binary self-dual doubly even [72, 36, 16] code is solvable
In: Institute of Electrical and Electronics Engineers: IEEE transactions on information theory: a journal devoted to the theoretical and experimental aspects of information transmission, processing, and utilization; a publication of the IEEE Information Theory Society. - Piscataway, NJ: IEEE, S. 4244-4248; [Abstract unter URL](#), 2006
[Imp.fact.: 2.183]

Budaghyan, Lilya; Carlet, Claude; Pott, Alexander

New classes of almost bent and almost perfect nonlinear polynomials
In: Institute of Electrical and Electronics Engineers: IEEE transactions on information theory: a journal devoted to the theoretical and experimental aspects of information transmission, processing, and utilization; a publication of the IEEE Information Theory Society. - Piscataway, NJ: IEEE, S. 1141-1152; [Abstract unter URL](#), 2006
[Imp.fact.: 2.183]

Edel, Yves; Kyureghyan, Gohar; Pott, Alexander

A new APN function which is not equivalent to a power mapping
In: Institute of Electrical and Electronics Engineers: IEEE transactions on information theory: a journal devoted to the theoretical and experimental aspects of information transmission, processing, and utilization; a publication of the IEEE Information Theory Society. - Piscataway, NJ: IEEE, S. 744-747; [Abstract unter URL](#), 2006
[Imp.fact.: 2.029]

Faldum, Andreas; Lafuente, Julio; Ochoa, Gustavo; Willems, Wolfgang

Error probabilities for bounded distance decoding
In: Designs, codes and cryptography: an international journal. - Dordrecht [u.a.]: Springer Science + Business Media B.V, S. 237-252; [Abstract unter URL](#), 2006
[Imp.fact.: 0.661]

Gow, R. ; Willems, Wolfgang

Cartan invariants and defect zero elements
In: Archiv der Mathematik. - Basel [u.a.]: Birkhäuser, ISSN 0003-889x, S. 498-504, 2006
[Imp.fact.: 0.307]

Hertel, Doreen

Crosscorrelation between GMW and dillon-dobbertin sequences
In: Denshi-Jōhō-Tsūshin-Gakkai: IEICE transactions / E / A. E, English transactions. - Tokyo: IEICE, S. 2264-2267; [Abstract unter URL](#), 2006
[Imp.fact.: 0.330]

Holm, Thorsten; Hu, Wei

The representation dimension of $k[x, y]/(x^2, y^n)$
In: Journal of algebra. - Orlando, Fla. : Academic Press, S. 791-802; [Abstract unter URL](#), 2006

[Imp.fact.: 0.459]

Holm, Thorsten; Skowronski, Andrzej

Derived equivalence classification of symmetric algebras of domestic type

In: Nihon-Sūgakkai: Journal of the Mathematical Society of Japan. - Tokyo, S. 1133-1149;

[Link unter URL](#), 2006

Holm, Thorsten; Willems, Wolfgang

A local conjecture on Brauer character degrees of finite groups

In: American Mathematical Society: Transactions of the American Mathematical Society.

- Providence, RI: Soc., S. 591-603; [Abstract unter URL](#), 2006

[Imp.fact.: 0.827]

Martínez-Pérez, Conchita; Willems, Wolfgang

Is the class of cyclic codes asymptotically good?

In: Institute of Electrical and Electronics Engineers: IEEE transactions on information theory:

a journal devoted to the theoretical and experimental aspects of information transmission, processing, and utilization; a publication of the IEEE Information Theory Society. - Piscataway,

NJ: IEEE, S. 696-700; [Abstract unter URL](#), 2006

[Imp.fact.: 2.029]

Martínez-Pérez, Conchita; Willems, Wolfgang

Self-dual extended cyclic codes

In: Applicable algebra in engineering, communication and computing: AAECC. - Berlin:

Springer, S. 1-16; [Abstract unter URL](#), 2006

[Imp.fact.: 0.531]

Schürmann, Achill

Instability of discrete point sets

In: Periodica mathematica Hungarica: journal of the János Bolyai Mathematical Society.

- Budapest: Akad. Kiadó, S. 257-264; [Link unter URL](#), 2006

Schürmann, Achill

On packing spheres into containers

In: Documenta mathematica: Journal der Deutschen Mathematiker-Vereinigung. - Bielefeld, S.

393-406; [Abstract unter URL](#), 2006

Schürmann, Achill; Swanepoel, Konrad J.

Three-dimensional antipodal and norm-equilateral sets

In: Pacific journal of mathematics. - [S.l.], S. 349-370; [Abstract unter URL](#)

[Imp.fact.: 0.406]

Schürmann, Achill; Vallentin, Frank

Computational approaches to lattice packing and covering problems

In: Discrete & computational geometry: an international journal of mathematics and computer science. - New York, NY: Springer, S. 73-116; [Abstract unter URL](#), 2006

[Imp.fact.: 0.735]

Originalartikel in begutachteten zeitschriftenartigen Reihen

Bey, Christian

Remarks on an edge isoperimetric problem

In: General theory of information transfer and combinatorics, S. 956-963; Lecture notes in computer science; 4123, 2006

Hertel, Doreen

Extended Hadamard equivalence

In: Sequences and their applications - SETA 2006: 4th international conference, Beijing, China, September 24 - 28, 2006; proceedings. - Berlin [u.a.]: Springer, S. 119; Lecture notes in computer science; 4086

Leneke, Brigitte

Überall Daten! - Daten erfassen, ordnen, darstellen und auswerten

In: RAAbits. - Stuttgart [u.a.]: Raabe, S. 1-35, insges. 35 S., 2006

Lehrbücher

Huppert, Bertram; Willems, Wolfgang

Lineare Algebra. - [Link unter URL](#); Wiesbaden: Teubner; XIII, 584 S.: graph. Darst., 2006

Buchbeiträge

Bräsel, Heidemarie

Matrices in Shop Scheduling Problems

In: Perspectives on operations research: essays in honor of Klaus Neumann. - Wiesbaden: Dt. Univ.-Verl., S. 17-42, 2006

Canteaut, Anne; Charpin, Pascale; Kyureghyan, Gohar

A new class of monomial bent functions

In: Proceedings: the Westin Seattle, Seattle, Washington, USA, July 9 - 14, 2006. - Piscataway, NJ: IEEE Service Center, S. 903-906

Artikel in Kongressbänden

Bräsel, Heidemarie; Herms, Andre; Mörig, Marc; Tautenhahn, Thomas; Tusch, Jan; Werner, Frank; Willenius, Per

A comparison of heuristics for mean flow time open shop scheduling

In: Operational Research. - Saint Etienne: Ecole Nationale Supérieure des Mines, S. 119-124, 2006

Charpin, Pascale; Kyureghyan, Gohar

On cubic bent function in the class

In: Proceedings: 3-6 September, 2006, Zvenigorod, Russia. - Moscow: IITP RAS, S. 52-55

Institut für Analysis und Numerik

Universitätsplatz 2, 39106 Magdeburg
Tel. +49 (0)391 67 18649 / 18586 / 18700, Fax +49 (0)391 67 18073
ian@uni-magdeburg.de

1. Leitung

Prof. Dr. Hans-Christoph Grunau
Prof. Dr. Lutz Tobiska (Geschäftsführender Leiter)
Prof. Dr. Gerald Warnecke
Priv.-Doz. Dr. Bernd Rummler

2. Hochschullehrer

Priv.-Doz. Dr. Evelyn Buckwar (Dorothea-Erxleben-Professur, 01.10.2005 - 30.09.2006)
Prof. Dr. Klaus Deckelnick
Prof. em. Dr. Herbert Goering
Prof. Dr. Hans-Christoph Grunau
Prof. Dr. Horst Hollatz (bis 02/2006)
Priv.-Doz. Dr. Matthias Kunik
Priv.-Doz. Dr. Bernd Rummler
Priv.-Doz. Dr. Friedhelm Schieweck
Prof. Dr. Lutz Tobiska
Prof. Dr. Guofang Wang (ab 01.10.2006)
Prof. Dr. Gerald Warnecke

3. Veröffentlichungen

Originalartikel in begutachteten internationalen Zeitschriften

Arioli, Gianni; Gazzola, Filippo; Grunau, Hans-Christoph

Entire solutions for a semilinear fourth order elliptic problem with exponential nonlinearity
In: Journal of differential equations. - Orlando, Fla. : Academic Press, S. 743-770;

[Abstract unter URL](#)

[Imp.fact.: 0.937]

Ben-Artzi, Matania; Li, Jiequan; Warnecke, Gerald

A direct Eulerian GRP scheme for compressible fluid flows

In: Journal of computational physics. - Orlando, Fla. : Academic Press, S. 19-43, 2006

[Imp.fact.: 3.138]

Deckelnick, Klaus; Dziuk, Gerhard

Error analysis of a finite element method for the Willmore flow of graphs

In: Interfaces and free boundaries. - Zürich: European Mathematical Soc. Publ. House, S. 21-46; [Abstract unter URL](#), 2006

[Imp.fact.: 1.024]

Deckelnick, Klaus; Elliot, Charles M.

Propagation of graphs in two-dimensional inhomogeneous media

In: Applied numerical mathematics: transactions of IMACS. - Amsterdam [u.a.]: North-Holland Publ. Co., S. 1163-1178; [Abstract unter URL](#)

[Imp.fact.: 0.589]

Gazzola, Filippo; Grunau, Hans-Christoph

Radial entire solutions for supercritical biharmonic equations

In: Mathematische Annalen. - Berlin: Springer, S. 905-936; [Abstract unter URL](#), 2006

[Imp.fact.: 0.828]

Heineken, Wolfram; Warnecke, Gerald

Partitioning methods for reaction-diffusion problems

In: Applied numerical mathematics: transactions of IMACS. - Amsterdam [u.a.]: North-Holland Publ. Co., S. 981-1000; [Abstract unter URL](#)

[Imp.fact.: 0.589]

Kumar, Jitendra; Peglow, Mirko; Warnecke, Gerald; Heinrich, Stefan; Mörl, Lothar

A discretized model for tracer population balance equation - improved accuracy and convergence

In: Computers & chemical engineering: an international journal of computer applications in chemical engineering. - Amsterdam [u.a.]: Elsevier Science, S. 1278-1292; [Abstract unter URL](#)

[Imp.fact.: 1.678]

Kumar, Jitendra; Peglow, Mirko; Warnecke, Gerald; Heinrich, Stefan; Mörl, Lothar

Improved accuracy and convergence of discretized population balance for aggregation - the cell average technique

In: Chemical engineering science: journal internat. de génie chimique. - Amsterdam: Elsevier, S. 3327-3342; [Link unter URL](#), 2006

[Imp.fact.: 1.735]

Lavrova, Olga; Matthies, G. ; Mitkova, Teodora; Polevikov, V. ; Tobiska, Lutz

Numerical treatment of free surface problems in ferrohydrodynamics

In: Journal of physics / Condensed matter. Condensed matter. - Bristol: IOP Publ., S. 2657-2669; [Abstract unter URL](#), 2006

[Imp.fact.: 2.145]

Peglow, Mirko; Kumar, Jitendra; Heinrich, Stefan; Warnecke, Gerald; Tsotsas, Evangelos; Mörl, Lothar; Wolf, Bertram

A generic population balance model for simultaneous agglomeration and drying in fluidized beds

In: Chemical engineering science: journal internat. de génie chimique. - Amsterdam: Elsevier, S. 513-532; [Link unter URL](#)

[Imp.fact.: 1.735]

Peglow, Mirko; Kumar, Jitendra; Warnecke, Gerald; Heinrich, Stefan; Mörl, Lothar

A new technique to determine rate constants for growth and agglomeration with size- and time-

dependent nuclei formation

In: Chemical engineering science: journal internat. de génie chimique. - Amsterdam: Elsevier, S. 282-292; [Link unter URL](#), 2006

[Imp.fact.: 1.735]

Peglow, Mirko; Kumar, Jitendra; Warnecke, Gerald; Heinrich, Stefan; Tsotsas, Evangelos; Mörl, Lothar

An improved discretized tracer mass distribution of Hounslow et al.

In: American Institute of Chemical Engineers: AIChE journal. - Hoboken, NJ: Wiley, S. 1326-1332; [Abstract unter URL](#), 2006

[Imp.fact.: 1.761]

Qamar, Shamsul; Elsner, M. P. ; Angelov, I. A. ; Warnecke, Gerald; Seidel-Morgenstern, Andreas

A comparative study of high resolution schemes for solving population balances in crystallization

In: Computers & chemical engineering: an international journal of computer applications in chemical engineering. - Amsterdam [u.a.]: Elsevier Science, S. 1119-1131; [Abstract unter URL](#)

[Imp.fact.: 1.678]

Qamar, Shamsul; Warnecke, Gerald

A space-time conservative method for hyperbolic systems with stiff and non stiff source terms

In: Communications in computational physics: CiCP. - Wanchai: Global Science Press, S. 451-480, 2006

Qamar, Shamsul; Warnecke, Gerald

Solving population balance equations for two-component aggregation by a finite volume scheme

In: Chemical engineering science: journal internat. de génie chimique. - Amsterdam: Elsevier, S. 679-693; [Link unter URL](#), 2006

[Imp.fact.: 1.735]

Tobiska, Lutz

Analysis of a new stabilized higher order finite element method for advection-diffusion equations

In: Computer methods in applied mechanics and engineering. - Amsterdam [u.a.]: Elsevier Science, S. 538-550; [Abstract unter URL](#)

[Imp.fact.: 1.553]

Ziomek, G. ; Antos, D. ; Tobiska, Lutz; Seidel-Morgenstern, Andreas

Comparison of possible arrangements of five identical columns in preparative chromatography

In: Journal of chromatography / A. A. - New York, NY [u.a.]: Science Direct, S. 179-188;

[Abstract unter URL](#)

[Imp.fact.: 3.096]

Wissenschaftliche Monografien

Ganesan, Sashikumaar

Finite element methods on moving meshes for free surface and interface flows.

- Zugl.:Magdeburg, Univ., Fak. für Mathematik, Diss., 2006; Magdeburg: docupoint-Verl.; III, 135 S.: Ill., graph. Darst.; 21 cm

Kumar, Jitendra

Numerical approximations of population balance equations in particulate systems. - Zugl.:
Magdeburg, Univ., Fak. für Mathematik, Diss., 2006; Magdeburg: docupoint-Verl.; V, 241 S.:
graph. Darst.; 24 cm

Buchbeiträge

Kunik, Matthias; Qamar, Shamsul; Warnecke, Gerald

A high order gas kinetic method for the relativistic Euler equations
In: Hyperbolic problems. - Yokohama: Yokohama Publ., S. 141-148, 2006

**Peglow, Mirko; Kumar, Jitendra; Tsotsas, Evangelos; Heinrich, Stefan; Warnecke,
Gerald; Mörl, Lothar**

A population balance model for simultaneous drying and agglomeration
In: Drying 2006. - Budapest: Univ., S. 219-226

Andere Materialien

Qamar, Shamsul; Warnecke, Gerald

Application of space-time CE/SE method to shallow water magnetohydrodynamic equations
In: Journal of computational and applied mathematics. - Amsterdam [u.a.]: North-Holland, S.
132-149; [Abstract unter URL](#)
[Imp.fact.: 0.569]

Dissertationen

Ganesan, Sashikumaar

Finite element methods on moving meshes for free surface and interface flows.
- Zugl.:Magdeburg, Univ., Fak. für Mathematik, Diss., 2006; Magdeburg: docupoint-Verl.; III,
135 S.: Ill., graph. Darst.; 21 cm

Kumar, Jitendra

Numerical approximations of population balance equations in particulate systems. - Zugl.:
Magdeburg, Univ., Fak. für Mathematik, Diss., 2006; Magdeburg: docupoint-Verl.; V, 241 S.:
graph. Darst.; 24 cm

Lavrova, Olga

Numerical methods for axisymmetric equilibrium magnetic-fluid shapes. - Magdeburg, Univ.,
Fak. für Mathematik, Diss., 2006; [Link unter URL](#); VI, 105 S.: graph. Darst.; 30 cm

Institut für Mathematische Optimierung

Universitätsplatz 2, 39106 Magdeburg
Tel. +49 (0)391 67 18756, Fax +49 (0)391 67 11171
imo@uni-magdeburg.de

1. Leitung

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

2. Hochschullehrer

Prof. Dr. rer.nat.habil. Eberhard Girlich
Prof. Dr. rer.nat.habil. Friedrich Juhnke
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

Böhlke, Thomas; Haus, Utz-Uwe; Schulze, Volker

Crystallographic texture approximation by quadratic programming

In: Acta materialia. - Amsterdam [u.a.]: Elsevier Science, S. 1359-1368; [Abstract unter URL](#)

[Imp.fact.: 3.490]

De Loera, Jesús A. ; Hemmecke, Raymond; Köppe, Matthias; Weismantel, Robert

Integer polynomial optimization in fixed dimension

In: Mathematics of operations research. - Linthicum, Md. : Inst., S. 147-153;

[Abstract unter URL](#), 2006

[Imp.fact.: 0.906]

Gangadwala, Jignesh; Kienle, Achim; Haus, Utz-Uwe; Michaels, Dennis; Weismantel, Robert

Global bounds on optimal solutions for the production of 2,3-dimethylbutene-

In: Industrial & engineering chemistry research. - Columbus, Ohio: American Chemical Society, S. 2261-2271; [Abstract unter URL](#)

[Imp.fact.: 1.424]

Gentile, C. ; Ventura, P. ; Weismantel, Robert

Mod-2 cuts generation yields the convex hull of bounded integer feasible sets

In: Society for Industrial and Applied Mathematics: SIAM journal on discrete mathematics.

- Philadelphia, Pa. : Soc., S. 913-919; [Abstract unter URL](#), 2006

[Imp.fact.: 0.885]

Inderfurth, Karl; Janiak, Adam; Kovalyov, Mikhail; Werner, Frank

Batching work and rework processes with limited deterioration of reworkables

In: Computers & operations research: an international journal. - Amsterdam [u.a.]: Elsevier, S. 1595-1605; [Abstract unter URL](#)

[Imp.fact.: 0.562]

Jach, Matthias; Köppe, Matthias; Weismantel, Robert

Nondecomposable solutions to group equations and an application to polyhedral combinatorics

In: 4OR: quarterly journal of the Belgian, French and Italian Operations Research Societies. - Berlin: Springer, S. 29-46; [Abstract unter URL](#), 2006

Louveaux, Quentin; Weismantel, Robert

Polyhedral properties for the intersection of two knapsacks

In: Mathematical programming: Series A, Series B. - Berlin; Heidelberg: Springer, [Abstract unter URL](#), 2006

[Imp.fact.: 1.497]

Pêcher, Arnaud; Wagler, Annegret K.

Almost all webs are not rank-perfect

In: Mathematical programming: Series A, Series B. - Berlin; Heidelberg: Springer, S. 311-328; [Abstract unter URL](#), 2006

[Imp.fact.: 1.016]

Pêcher, Arnaud; Wagler, Annegret K.

On non-rank facets of stable set polytopes of webs with clique number four

In: Discrete applied mathematics. - [S.l.]: Elsevier, S. 1408-1415; [Abstract unter URL](#)
[Imp.fact.: 0.585]

Originalartikel in begutachteten zeitschriftenartigen Reihen

Haus, Utz-Uwe; Gangadwala, J. ; Kienle, Achim; Michaels, Dennis; Seidel-Morgenstern, Andreas; Weismantel, Robert

Global bounds on optimal solutions in chemical process design

In: European Symposium on Computer Aided Process Engineering <16, 2006, Garmisch-Partenkirchen>; 16th European Symposium on Computer-Aided Process Engineering and 9th International Symposium on Process System Engineering. - Amsterdam [u.a.]: Elsevier, S. 155-160; Computer-aided chemical engineering; 21

Lehrbücher

Werner, Frank; Sotskov, Yuri N.

Mathematics of economics and business. - London [u.a.]: Routledge; XVII, 516 S.: graph. Darst.; 25 cm, 2006

Buchbeiträge

De Loera, Jesús A. ; Hemmecke, Raymond; Köppe, Matthias; Weismantel, Robert

FPTAS for mixed-integer polynomial optimization with a fixed number of variables
In: Symposium on Discrete Algorithms <17, 2006, Miami, Fla.>: Proceedings of the Seventeenth Annual ACM-SIAM Symposium on Discrete Algorithms: [Miami, FL., January 22 - 24, 2006]. - New York, NY: Association for Computing Machinery [u.a.], S. 743-748

Jungwattanakit, Jitti; Reodecha, Manop; Chaovalitwongse, Paveena; Werner, Frank
Constructive and simulated annealing heuristics for hybrid flow shops with unrelated parallel machines
In: Proceedings of the 3rd OR-CRN Operations Research Conference, Bangkok, Thailand, 31 August - 1 September, 2006. - Bangkok, S. 110-121

Wagler, Annegret K.
The normal graph conjecture is true for circulants
In: Graph theory in Paris: proceedings of a conference in memory of Claude Berge, GT04, Paris; [... conference on graph theory ... in July 2004]. - Basel [u.a.]: Birkhäuser, S. 365-374, 2006

Rezensionen

Werner, Frank
. - Mathematical methods of operations research. - Heidelberg: Physica-Verl., S. 187-189, 2006

Werner, Frank
. - European journal of operational research: EJOR. - Amsterdam: North-Holland Publ. Co., S. 275-277; [Abstract unter URL](#), 2006

Artikel in Kongressbänden

Bräsel, Heidemarie; Herms, Andre; Mörig, Marc; Tautenhahn, Thomas; Tusch, Jan; Werner, Frank; Willenius, Per
A comparison of heuristics for mean flow time open shop scheduling
In: Operational Research. - Saint Etienne: Ecole Nationale Supérieure des Mines, S. 119-124, 2006

Jungwattanakit, Jitti; Reodecha, Manop; Chaovalitwongse, Paveena; Werner, Frank
Sequencing and tabu search heuristics for hybrid flow shops with unrelated parallel machines and setup times
In: The 7th Asia-Pacific Conference on Industrial Engineering and Management Systems Conference and the 9th Asia Pacific Division Meeting of the International Foundation for Production Research: Bangkok, 17-20 December 2006; proceedings of abstracts and papers. - Asian Inst. of Technology, S. 1330-1342

Jungwattanakit, Jitti; Reodecha, Manop; Chaovalitwongse, Paveena; Werner, Frank
Sequencing heuristics for flexible flow shop scheduling problems with unrelated parallel machines and setup times
In: Proceedings of the 2006 IE Network National Conference: Bangkok/Thailand, 18.-19. Dezember. - Bangkok, S. 1-8

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

Solving the hybrid flowshop scheduling problem with unrelated parallel machines and sequence-dependent setup times by simulated annealing algorithm

In: Manufacturing innovation and excellence through research and development: proceedings of the 1st International Conference & 7th AUN/SEED-Net Fieldwise Seminar on Manufacturing and Material Processing. - Kuala Lumpur, S. 640-645, 2006

Orlovich, Yury; Gordon, Valery; Werner, Frank

Cyclic properties of triangular grid graphs

In: Operational Research. - Saint Etienne: Ecole Nationale Supérieure des Mines, S. 149-153, 2006

Sotskov, Yuri N. ; Werner, Frank

Sequence-dependent setup and clean-up times in a two-machine job-shop with minimizing makespan

In: Operational Research. - Saint Etienne: Ecole Nationale Supérieure des Mines, S. 51-56, 2006

Dissertationen

Hemmecke, Raymond

Representations of lattice point sets - theory, algorithms, applications. - Magdeburg, Univ., Fak. für Mathematik, Habil.-Schr., 2006; [Link unter URL](#); XI, 176 S.: graph. Darst.; 30 cm

Institut für Mathematische Stochastik

Universitätsplatz 2, 39106 Magdeburg
Tel. +49 (0)391 67 18651, Fax +49 (0)391 67 11172
imst@mathematik.uni-magdeburg.de

1. Leitung

Prof. Dr. rer.nat.habil. Gerd Christoph
Prof. Dr. rer.nat.habil. Norbert Gaffke
Prof. Dr. rer.nat.habil. Rainer Schwabe (geschäftsführender Leiter)
apl. Prof. Dr. rer.nat.habil. Waltraud Kahle

2. Hochschullehrer

Prof. Dr. rer.nat.habil. Gerd Christoph
Prof. Dr. rer.nat.habil. Norbert Gaffke
Prof. Dr. rer.nat.habil. Rainer Schwabe
apl. Prof. Dr. rer.nat.habil. Berthold Heiligers (extern)
apl. Prof. Dr. rer.nat.habil. Waltraud Kahle
Priv.-Doz. Dr. rer.nat.habil. Thomas Müller-Gronbach
Emeritus: Prof. Dr. rer.nat.habil. Otfried Beyer

3. Veröffentlichungen

Originalartikel in begutachteten internationalen Zeitschriften

Christoph, Gerd; Ulyanov, Vladimir V.

Bounds for L_1 -approximation of x^2 -density by a first-order Chebyshev-Edgeworth expansion
In: Communications in dependability and quality management: an international journal. - Cacak:
The DQM Research Center, S. 12-16, 2006

Finkelstein, Maxim; Esaulova, Veronica

Asymptotic behavior of a general class of mixture failure rates
In: Advances in applied probability. - Sheffield [u.a.], S. 244-262; [Abstract unter URL](#), 2006
[Imp.fact.: 0.733]

Großmann, Heiko; Holling, Heinz; Graßhoff, Ulrike; Schwabe, Rainer

Optimal designs for asymmetric linear paired comparisons with a profile strength constraint
In: Metrika: international journal for theoretical and applied statistics. - Berlin: Springer, S. 109-
119; [Abstract unter URL](#), 2006
[Imp.fact.: 0.451]

Hofmann, Norbert; Müller-Gronbach, Thomas

A modified Milstein scheme for approximation of stochastic delay differential equations with
constant time lag
In: Journal of computational and applied mathematics. - Amsterdam [u.a.]: North-Holland, S. 89-

121; [Abstract unter URL](#)

[Imp.fact.: 0.569]

Rafajlowicz, Ewaryst; Schwabe, Rainer

Halton and Hammersley sequences in multivariate nonparametric regression

In: Statistics & probability letters. - Amsterdam: Elsevier Science, S. 803-812;

[Abstract unter URL](#)

[Imp.fact.: 0.284]

Ulyanov, V. V. ; Christoph, Gerd; Fujikoshi, Y.

On approximations of transformed chi-squared distributions in statistical applications

In: Siberian mathematical journal. - New York, NY [u.a.]: Consultants Bureau, S. 1154-1166;

[Abstract unter URL](#), 2006

[Imp.fact.: 0.170]

Vandemeulebroecke, Marc

An investigation of two-stage tests

In: Statistica Sinica. - [S.l.], S. 933-951; [Abstract unter URL](#), 2006

[Imp.fact.: 0.926]

Wassmer, Gernot; Vandemeulebroecke, Marc

A brief review on software developments for group sequential and adaptive designs

In: Biometrical journal. - Berlin: Wiley-VCH, S. 732-737; [Abstract unter URL](#), 2006

[Imp.fact.: 0.768]

Buchbeiträge

Kahle, Waltraud

Incomplete preventive maintenance

In: Prague Stochastics 2006: proceedings of the joint session of 7th Prague Symposium on Asymptotic Statistics and 15th Prague Conference on Information Theory, Statistical Decision Function and Random Processes, held in Prague from August 21 to 25, 2006. - Praha: MATFYZPress, S. 138-144

Kahle, Waltraud

Optimal maintenance policies in incomplete repair models

In: BIOSTAT 2006: proceedings of the International Conference Statistical Methods for Biomedical and Technical Systems Limassol, Cyprus. - Nicosia, S. 123-128

Kahle, Waltraud; Wendt, Heide

Statistical analysis of some parametric degradation models

In: Probability, statistics, and modelling in public health. - New York, NY: Springer, S. 266-279, 2006

Lehmann, Axel

Degradation-threshold-shock models

In: Probability, statistics, and modelling in public health. - New York, NY: Springer, S. 286-298, 2006