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1. Leitung

Prof. Dr. rer. nat. habil. Volker Kaibel (geschäftsführender Leiter)
Prof. Dr. rer. nat. habil. Dr. h.c. Eberhard Girlich (bis 31.03.2011)

2. Hochschullehrer

Prof. Dr. rer. nat. habil. Dr. h.c. Eberhard Girlich (bis 31.03.2011)
Prof. em. Dr. rer. nat. habil. Friedrich Juhnke
Prof. Dr. rer. nat. habil. Volker Kaibel
Jun. Prof. Dr. Gennadiy Averkov
apl. Prof. Dr. rer. nat. habil. Frank Werner
Prof. em. Dr. rer. nat. habil. Karl Manteuffel

3. Veröffentlichungen

Originalartikel in begutachteten internationalen Zeitschriften

Averkov, Gennadiy; Bey, Christian

Description of polygonal regions by polynomials of bounded degree
In: Monatshefte für Mathematik. - Wien [u.a.]: Springer, Bd. 162.2011, 1, S. 19-27; [Link unter URL](#); 2011
[Imp.fact.: 0,528]

Averkov, Gennadiy; Henk, Martin

Representing simple d-dimensional polytopes by d polynomials
In: Mathematical programming. - Berlin: Springer, Bd. 126.2011, 2, S. 203-230; [Link unter URL](#); 2011
[Imp.fact.: 1,970]

Beyer, Tilo; Busse, Mandy; Hristov, Kroum; Guriel, Slavyana; Smida, Michal; Haus, Utz-Uwe; Ballerstein, Kathrin; Pfeuffer, Frank; Weismantel, Robert; Schraven, Burkhardt; Lindquist, Jonathan A.

Integrating signals from the T-cell receptor and the interleukin-2 receptor
In: Public Library of Science: PLoS Computational Biology. - San Francisco, Calif. : Public Library of Science, Bd. 7.2011, 8, insges. 15 S.; [Abstract unter URL](#); 2011
[Imp.fact.: 5,515]

Durzinsky, Markus; Marwan, Wolfgang; Ostrowski, Max; Schaub, Torsten; Wagler, Annegret

Automatic network reconstruction using ASP
In: Theory and practice of logic programming. - Cambridge: Cambridge Univ. Press, Bd. 11.2011, 4/5, S. 749-766;
[Link unter URL](#)
[Special issue: 27th International Conference on Logic Programming, 2011]; 2011

[Imp.fact.: 1,250]

Gafarov, Evgeny R. ; Lazarev, Alexander A. ; Werner, Frank

Single machine scheduling problems with financial resource constraints: Some complexity results and properties

In: Mathematical social sciences. - Amsterdam: Elsevier Science; [Abstract unter URL](#); 2011

[Imp.fact.: 0,508]

Kaibel, Volker

Basic polyhedral theory

In: De.arxiv.org. - [S.I.]: Arxiv.org, insges. 14 S.; [Abstract unter URL](#), 2011; 2011

Kaibel, Volker

Extended formulations in combinatorial optimization

In: De.arxiv.org. - [S.I.]: Arxiv.org, insges. 14 S.; [Abstract unter URL](#), 2011; 2011

Kaibel, Volker; Loos, Andreas

Finding descriptions of polytopes via extended formulations and liftings

In: De.arxiv.org. - [S.I.]: Arxiv.org, insges. 20 S.; [Abstract unter URL](#), 2011; 2011

Kaibel, Volker; Peinhardt, Matthias; Pfetsch, Marc E.

Orbitopal fixing

In: Discrete optimization. - New York, NY [u.a.]: Elsevier, Bd. 8.2011, 4, S. 595-610; [Link unter URL](#); 2011

[Imp.fact.: 0,776]

Kravchenko, Svetlana A. ; Werner, Frank

Parallel machine problems with equal processing times - a survey

In: Journal of scheduling. - Norwell, Mass. : Springer Science + Business Media, Bd. 14.2011, 5, S. 435-444;

[Link unter URL](#); 2011

[Imp.fact.: 1,297]

Marwan, Wolfgang; Wagler, Annetgret; Weismantel, Robert

Petri nets as a framework for the reconstruction and analysis of signal transduction pathways and regulatory networks

In: Natural computing. - Dordrecht [u.a.]: Kluwer Academic Press, Bd. 10.2011, 2, S. 639-654; [Link unter URL](#); 2010

Orlovich, Yury; Dolgui, Alexandre; Finke, Gerd; Gordon, Valery; Werner, Frank

The complexity of dissociation set problems in graphs

In: Discrete applied mathematics. - Amsterdam [u.a.]: Elsevier, ISSN 0166-218x, Bd. 159.2011, 13, S. 1352-1366;

[Link unter URL](#); 2011

[Imp.fact.: 0,822]

Originalartikel in begutachteten zeitschriftenartigen Reihen

Kaibel, Volker; Pashkovich, Kanstantsin

Constructing extended formulations from reflection relations

In: Integer programming and combinatorial optimization. - Heidelberg [u.a.]: Springer, ISBN 3-642-20806-1, S. 287-300; Lecture notes in computer science; 6655; [Link unter URL](#), 2011

Kongress: IPCO; 15 (New York, NY): 2011.06.15-17; 2011

Wagler, Annetgret

Prediction of network structure

In: Modeling in systems biology. - London [u.a.]: Springer, ISBN 978-1-8499-6473-9, S. 307-336; Computational Biology; 16; [Link unter URL](#), 2011; 2011

Buchbeiträge

Gafarov, Evgeny; Lazarev, Alexander; Werner, Frank

Scheduling problems with financial resource constraints

In: II. International Conference Optimization and Applications, (OPTIMA-2011). - Montenegro: Univ., ISBN 978-5-916010-51-0, S. 82-85

Kongress: OPTIMA 2011; 2 (Petrovac, Montenegro): 2011.2011.09.25-10.02; 2011

Sotskov, Yuri; Egorova, Natalja; Lai, Tsung-Chyan; Werner, Frank

The stability box in interval data for minimizing the sum of eighted completion time

In: SIMULTECH 2011. - SciTePress, ISBN 978-989-842578-2, S. 14-23

Kongress: SIMULTECH; 1 (Noordwijkerhout, The Netherland): 2011.07.29-31; 2011

Artikel in Fachzeitschriften der Industrie, Gesellschaften, Verbände etc.

Kaibel, Volker

Extended formulations in combinatorial optimization

In: Optima. - Philadelphia, Pa. [u.a.]: Soc., 85, S. 2-7, 2011; 2011

Dissertationen

Loos, Andreas

Describing orbitopes by linear inequalities and projection based tools. - Magdeburg, Univ., Fak. für Mathematik, Diss., 2011; VI, 133 S.: graph. Darst.; 2011