



FAKULTÄT FÜR  
MATHEMATIK

# Publikationsbericht 2017

# FAKULTÄT FÜR MATHEMATIK

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## 1. Leitung

Prof. Dr. Hans-Christoph Grunau (Dekan)  
Prof. Dr. Volker Kaibel (Prodekan und Studiendekan)

## 2. Veröffentlichungen

### ***Dissertationen***

#### **Alkurdi, Yaser; Warnecke, Gerald [GutachterIn]; Bück, Andreas [GutachterIn]**

Numerical simulation schemes for inhomogeneous convection-diffusion systems modeling fluidized beds.  
- Magdeburg, 2017, vi, 145 Seiten, Illustrationen  
[Literaturverzeichnis: Seite 137-143]

#### **Eichmann, Sascha; Grunau, Hans-Christoph [GutachterIn]**

Willmore surfaces of revolution satisfying Dirichlet data. - Magdeburg, 2016, 105 Seiten, Illustrationen, 30 cm  
[Literaturverzeichnis: Seite 99-102]

#### **Holzhauer, Björn; Schwabe, Rainer [AkademischeR BetreuerIn]**

Meta-analysis of aggregate data on medical events. - Magdeburg, 2017, V, 152 Seiten, Illustrationen, Diagramme, 21 cm  
[Literaturverzeichnis: Seite 111-124]

#### **Okiro, Jared Ouma; Warnecke, Gerald [GutachterIn]**

Analytical and numerical investigation of an intracellular calcium dynamics model. - Magdeburg, 2017, ix, 128 Seiten, Illustrationen  
[Literaturverzeichnis: Seite 115-127]

#### **Schmidt, Dennis; Schwabe, Rainer [AkademischeR BetreuerIn]**

Versuchsplanung für nichtlineare multiple Regressionsmodelle mit Anwendung auf zensierte Daten. - Magdeburg, 2017, IV, 127 Seiten

#### **Simon, Kristin; Tobiska, Lutz [AkademischeR BetreuerIn]**

Higher order stabilized surface finite element methods for diffusion-convection-reaction equations on surfaces with and without boundary. - Barleben docupoint Verlag 2017, xiv, 112 Seiten, Illustrationen, Diagramme, 21 cm - (Docupoint Wissenschaft; Micro-macro transactions; Volume 28), ISBN 978-3-86912-133-8;  
[Literaturverzeichnis: Seite 107-112]

# INSTITUT FÜR ALGEBRA UND GEOMETRIE

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## 1. Leitung

Prof. Dr. Benjamin Nill (Institutsleiter)  
Prof. Dr. Alexander Pott  
PD Dr. Gohar Kyureghyan (bis 31.01.2017)

## 2. Veröffentlichungen

### ***Begutachtete Zeitschriftenaufsätze***

#### **Hofscheier, Johannes; Katthän, Lukas; Nill, Benjamin**

Ehrhart theory of spanning lattice polytopes

In: International mathematics research notices: IMRN - Oxford: Oxford University Press, 2017; <http://dx.doi.org/10.1093/imrn/rnx065>

[Imp.fact.: 0,924]

#### **Jensen, Anders; Kahle, Thomas; Katthän, Lukas**

Finding binomials in polynomial ideals

In: Research in the mathematical sciences - New York, NY [u.a.]: Springer, Bd. 4.2017, 1, insges. 10 S.

#### **Kahle, Thomas; Kubjas, Kaie; Kummer, Mario; Rosen, Zvi**

The geometry of rank-one tensor completion

In: Siam journal on applied algebra and geometry - Philadelphia, PA: SIAM, Bd. 1.2017, 1, S. 200-221

#### **Kasprzyk, Alexander; Nill, Benjamin; Prince, Thomas**

Minimality and mutation-equivalence of polygons

In: Forum of mathematics / Sigma - Cambridge: Cambridge Univ. Press, Vol. 5.2017, Art. e18, insgesamt 48 S.

#### **Li, Chengju; Ding, Cunsheng; Li, Shuxing**

LCD cyclic codes over finite fields

In: 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, Bd. 63.2017, 9, S. 4344-4356

[Imp.fact.: 2,679]

#### **Li, Shuxing**

The weight hierarchy of a family of cyclic codes with arbitrary number of nonzeros

In: Finite fields and their applications - Orlando, Fla. [u.a.]: Elsevier, Bd. 45.2017, S. 355-371

[Imp.fact.: 0,813]

#### **Li, Shuxing; Ding, Cunsheng; Xiong, Maosheng; Ge, Gennian**

Narrow-sense BCH codes over  $GF(q)$  with length  $n=q^m-1/q-1$

In: 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, Bd. 63.2017, 11, S. 7219-1236  
[Imp.fact.: 2,679]

**Li, Shuxing; Ge, Gennian**

Constructions of maximum distance separable symbol-pair codes using cyclic and constacyclic codes  
In: Designs, codes and cryptography: an international journal - Dordrecht [u.a.]: Springer Science + Business Media B.V, Bd. 84.2017, 3, S. 359-372  
[Imp.fact.: 1,009]

**Li, Shuxing; Li, Chengju; Ding, Cunsheng; Liu, Hao**

Two families of LCD BCH codes  
In: 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, Bd. 63.2017, 9, S. 5699-5717  
[Imp.fact.: 2,679]

**Li, Shuxing; Wei, Hengjia; Ge, Gennian**

Generic constructions for partitioned difference families with applications - a unified combinatorial approach  
In: Designs, codes and cryptography: an international journal - Dordrecht [u.a.]: Springer Science + Business Media B.V, Bd. 82.2017, 3, S. 583-599  
[Imp.fact.: 1,009]

**Ploog, David; Broomhead, Nathan; Pauksztello, David**

Discrete derived categories I: homomorphisms, autoequivalences and t-structures  
In: Mathematische Zeitschrift - Berlin: Springer, Bd. 285.2017, 1/2, S. 39-89  
[Imp.fact.: 0,738]

**Ploog, David; Hein, Georg**

Stability of picard sheaves  
In: Journal of geometry and physics: JGP - Amsterdam [u.a.]: North-Holland, Bd. 122.2017, S. 59-68  
[Imp.fact.: 0,819]

***Nicht begutachtete Zeitschriftenaufsätze***

**Hille, Lutz; Ploog, David**

Tilting chains of negative curves on rational surfaces  
In: De.arxiv.org - [S.I.]: Arxiv.org, insges. 13 S., 2017

**Krug, Andreas; Ploog, David; Sosna, Pawel**

Derived categories of resolutions of cyclic quotient singularities  
In: De.arxiv.org - [S.I.]: Arxiv.org, insges. 34 S., 2017

**Ploog, David; Broomhead, Nathan; Pauksztello, David**

Discrete triangulated categories  
In: De.arxiv.org - [S.I.]: Arxiv.org, insges. 14 S., 2017

# INSTITUT FÜR ANALYSIS UND NUMERIK

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## 1. Leitung

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Prof. Dr. Hans-Christoph Grunau  
Prof. Dr. Miles Simon  
Prof. Dr. Thomas Richter  
Prof. em. Dr. Lutz Tobiska  
Prof. Dr. Gerald Warnecke  
Priv.-Doz. Dr. Bernd Rummeler

## 2. Veröffentlichungen

### ***Begutachtete Zeitschriftenaufsätze***

#### **Barrett, John W.; Deckelnick, Klaus; Styles, Vanessa**

Numerical analysis for a system coupling curve evolution to reaction diffusion on the curve  
In: SIAM journal on numerical analysis - Philadelphia, Pa: SIAM, Bd. 55.2017, 2, S. 1080-1100  
[Imp.fact.: 1,899]

#### **Boettcher, Ronny; Kunik, Matthias; Eichmann, Sascha; Russell, Alexander; Mueller, Peter**

Revisiting energy dissipation due to elastic waves at impact of spheres on large thick plates  
In: International journal of impact engineering - Amsterdam [u.a.]: Elsevier Science, Bd. 104.2017, S. 45-54  
[Imp.fact.: 2,938]

#### **Böhm, Christoph; Lafuente, Ramiro; Simon, Miles**

Optimal curvature estimates for homogeneous Ricci flows  
In: International mathematics research notices: IMRN - Oxford: Oxford University Press, 2017; <http://dx.doi.org/10.1093/imrn/rnx256>  
[Imp.fact.: 0,924]

#### **Deckelnick, Klaus; Grunau, Hans-Christoph; Röger, Matthias**

Minimising a relaxed Willmore functional for graphs subject to boundary conditions  
In: Interfaces and free boundaries - Zürich: European Mathematical Soc. Publ. House, Bd. 19.2017, 1, S. 109-140  
[Imp.fact.: 0,868]

#### **Deckelnick, Klaus; Hinze, Michael; Jordan, Tobias**

An optimal shape design problem for plates  
In: SIAM journal on numerical analysis - Philadelphia, Pa: SIAM, Bd. 55.2017, 1, S. 109-130  
[Imp.fact.: 1,750]

#### **Eichmann, Sascha; Grunau, Hans-Christoph**

Existence for Willmore surfaces of revolution satisfying non-symmetric Dirichlet boundary conditions

In: Advances in calculus of variations - Berlin: de Gruyter, 2017; <http://dx.doi.org/10.1515/acv-2016-0038>  
[Imp.fact.: 1,182]

**Frei, Stefan; Richter, Thomas**

A second order time-stepping scheme for parabolic interface problems with moving interfaces  
In: Mathematical modelling and numerical analysis: an international journal on applied mathematics - Les Ulis: EDP Sciences, Bd. 51.2017, 4, S. 1539-1560  
[Imp.fact.: 1,727]

**Hallak, Bassem; Specht, Eckehard; Herz, Fabian; Gröpler, Robin; Warnecke, Gerald**

Influence of particle size distribution on the limestone decomposition in single shaft kilns  
In: Energy procedia - Amsterdam [u.a.]: Elsevier, Bd. 120.2017, S. 604-611

**Han, Ee; Hantke, Maren; Müller, Siegfried**

Efficient and robust relaxation procedures for multi-component mixtures including phase transition  
In: Journal of computational physics - Amsterdam: Elsevier, Bd. 338.2017, S. 217-239  
[Imp.fact.: 2,556]

**Kunik, Matthias**

A scaling property of Farey fractions, Part III: representation formulas  
In: European journal of mathematics - Berlin [u.a.]: Springer, Bd. 3.2017, 2, S. 363-378

**Kunik, Matthias**

A scaling property of Farey fractions, Part IV: mean value formulas  
In: European journal of mathematics - Berlin [u.a.]: Springer, 2017; <http://dx.doi.org/10.1007/s40879-017-0197-6>

**Mehlmann, Carolin; Richter, Thomas**

A finite element multigrid-framework to solve the sea ice momentum equation  
In: Journal of computational physics - Amsterdam: Elsevier, Bd. 348.2017, S. 847-861  
[Imp.fact.: 2,744]

**Mehlmann, Carolin; Richter, Thomas**

A modified global Newton solver for viscous-plastic sea ice models  
In: Ocean modelling online - Amsterdam [u.a.]: Elsevier Science, Bd. 116.2017, S. 96-107  
[Imp.fact.: 3,341]

**Rummler, Bernd; Ruži ka, Michael; Thäter, Gudrun**

Exact poincaré constants in two-dimensional annuli - poincaré constants in 2d-annuli  
In: ZAMM: journal of applied mathematics and mechanics - Berlin: Wiley-VCH, Bd. 97.2017, 1, S. 110-122  
[Imp.fact.: 1,332]

**Simon, Miles**

Ricci flow of regions with curvature bounded below in dimension three  
In: The journal of geometric analysis - New York, NY: Springer, insges. 20 S., 2017  
[Imp.fact.: 1,109]

***Nicht begutachtete Zeitschriftenaufsätze***

**Dall'Acqua, Anna; Deckelnick, Klaus**

An obstacle problem for elastic graphs\*  
In: Magdeburg Universität, Fakultät für Mathematik, 2017, 20 Seiten - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2017,Nr.02)

**Deckelnick, Klaus; Elliott, Charles M.; Miura, Tatsu-Hiko**

Hamilton-Jacobi equations on an evolving surface

In: Magdeburg Universität, Fakultät für Mathematik, 2017, 19 Seiten, Illustrationen - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2017,Nr.07)  
[Literaturverzeichnis: Seite 18-19]

**Kunik, Matthias**

A scaling property of Farey fractions, Part IV: Mean value formulas

In: Magdeburg Universität, Fakultät für Mathematik, 2017, 12 Seiten - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2017,Nr.03)

**Begutachtete Buchbeiträge**

**Richter, Thomas**

ALE formulation for fluid-structure interactions

In: Fluid-structure Interactions: Models, Analysis and Finite Elements - Cham: Springer International Publishing, S. 203-254, 2017 - (Lecture Notes in Computational Science and Engineering; 118)

**Richter, Thomas**

Discretization

In: Fluid-structure Interactions: Models, Analysis and Finite Elements - Cham: Springer International Publishing, S. 117-199, 2017 - (Lecture Notes in Computational Science and Engineering; 118)

**Richter, Thomas**

Fully eulerian formulation for fluid-structure interactions

In: Fluid-structure Interactions: Models, Analysis and Finite Elements - Cham: Springer International Publishing, S. 255-279, 2017 - (Lecture Notes in Computational Science and Engineering; 118)

**Abstracts**

**Bannasch, Sebastian; Warnecke, Gerald; Rose, Georg**

Dynamische Perfusionsbildgebung mit C-Arm-System

In: Clinical neuroradiology: official publication of the German, Austrian and Swiss societies of neuroradiology - München: Urban & Vogel, Vol. 27.2017, Suppl. 1, Art. 311, S. S46

[Tagung: 52. Jahrestagung der Deutschen Gesellschaft für Neuroradiologie e.V., Gürzenich, Köln, 11.14. Oktober 2017]  
[Imp.fact.: 2,618]

**Bannasch, Sebastian; Warnecke, Gerald; Rose, Georg**

Robust computation of perfusion maps for spatiotemporal model-based CT reconstructionsonns

In: Recent progress and developments: 3rd Conference on Image-Guided Interventions & Focus Neuroradiologie, November 6 and 7, 2017, Magdeburg, Germany: abstract book - Magdeburg, 2017, Art. ID47, S. 31

[Konferenz: 3rd Conference on Image-Guided Interventions & Focus Neuroradiologie, Magdeburg, Germany, November 6 and 7, 2017]

**Dissertationen**

**Alkurdi, Yaser; Warnecke, Gerald [GutachterIn]; Bück, Andreas [GutachterIn]**

Numerical simulation schemes for inhomogeneous convection-diffusion systems modeling fluidized beds.

- Magdeburg, 2017, vi, 145 Seiten, Illustrationen

[Literaturverzeichnis: Seite 137-143]

**Eichmann, Sascha; Grunau, Hans-Christoph [GutachterIn]**

Willmore surfaces of revolution satisfying Dirichlet data. - Magdeburg, 2016, 105 Seiten, Illustrationen, 30 cm

[Literaturverzeichnis: Seite 99-102]

**Okiro, Jared Ouma; Warnecke, Gerald [GutachterIn]**

Analytical and numerical investigation of an intracellular calcium dynamics model. - Magdeburg, 2017, ix, 128 Seiten,

## Illustrationen

[Literaturverzeichnis: Seite 115-127]

### **Simon, Kristin; Tobiska, Lutz [AkademischeR BetreuerIn]**

Higher order stabilized surface finite element methods for diffusion-convection-reaction equations on surfaces with and without boundary. - Barleben docupoint Verlag 2017, xiv, 112 Seiten, Illustrationen, Diagramme, 21 cm - (Docupoint Wissenschaft; Micro-macro transactions; Volume 28), ISBN 978-3-86912-133-8;

[Literaturverzeichnis: Seite 107-112]

### **Zergänge, Norman; Simon, Miles [AkademischeR BetreuerIn]**

Convergence of Riemannian manifolds with critical curvature bounds. - Magdeburg, 2017, i, 98 Seiten, Illustrationen, 30 cm

[Literaturverzeichnis: Seite 95-98]



# INSTITUT FÜR MATHEMATISCHE OPTIMIERUNG

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## 1. Leitung

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Prof. Dr. rer. nat. habil. Sebastian Sager

## 2. Veröffentlichungen

### **Begutachtete Zeitschriftenaufsätze**

**Averkov, Gennadiy; González Merino, Bernardo; Paschke, Ingo; Schymura, Matthias; Weltge, Stefan**  
Tight bounds on discrete quantitative Helly numbers  
In: Advances in applied mathematics - Amsterdam [u.a.]: Elsevier, Bd. 89.2017, S. 76-101  
[Imp.fact.: 0,849]

**Bo ek, Andrzej; Werner, Frank**  
Flexible job shop scheduling with lot streaming and subplot size optimisation  
In: International journal of production research - London [u.a.]: Taylor & Francis, insges. 21 S., 2017  
[Imp.fact.: 2,325]

**Delgado-Arana, Eddy M.; Burtseva, Larysa; Flores-Rios, Brenda; Ibarra, Roberto; Werner, Frank**  
A batch sequencing model for a semiconductor packaging company  
In: Engineering Letters - Hong Kong, Bd. 25.2017, 2, S. 205-213

**Diedam, Holger; Sager, Sebastian**  
Global optimal control with the direct multiple shooting method  
In: Optimal control, applications and methods - New York, NY [u.a.]: Wiley, 2017; <http://dx.doi.org/10.1002/oca.2324>  
[Imp.fact.: 1,558]

**Engelhart, Michael; Funke, Joachim; Sager, Sebastian**  
A web-based feedback study on optimization-based training and analysis of human decision making  
In: Journal of dynamic decision making: JDDM - Heidelberg: Univ.-Bibliothek, Vol. 3.2017, Art. 2, insgesamt 23 S.

**Jost, Felix; Sager, Sebastian; Le, Thi Thien Thuy**  
A feedback optimal control algorithm with optimal measurement time points  
In: Processes: open access journal - Basel: MDPI, Bd. 5.2017, 1, insges. 19 S.

**Lai, Tsung-Chyan; Sotskov, Yuri N.; Egorova, Natalja G.; Werner, Frank**  
The optimality box in uncertain data for minimising the sum of the weighted job completion times  
In: International journal of production research - London [u.a.]: Taylor & Francis, insges. 27 S., 2017  
[Imp.fact.: 2,325]

**Lange, Julia; Werner, Frank**  
Approaches to modeling train scheduling problems as job-shop problems with blocking constraints  
In: Journal of scheduling: JOS - Dordrecht [u.a.]: Springer Science + Business Media, insges. 17 S., 2017

[Imp.fact.: 1,281]

**Lazarev, Alexander; Arkhipov, Dmitry; Werner, Frank**

Scheduling jobs with equal processing times on a single machine: minimizing maximum lateness and makespan

In: Optimization letters - Berlin: Springer, Bd. 11.2017, 1, S. 165-177

[Imp.fact.: 1,019]

**Metelsky, Yury; Schemelewa, Kseniya; Werner, Frank**

A finite characterization and recognition of intersection graphs of hypergraphs with rank at most 2 and multiplicity at most 3 in the class of threshold graphs

In: Discussiones mathematicae / Graph theory - Warsaw: De Gruyter Open, Bd. 37.2017, 1

[Imp.fact.: 0,654]

**Weber, Tobias; Katus, Hugo A.; Sager, Sebastian; Scholz, Eberhard P.**

Novel algorithm for accelerated electroanatomic mapping and prediction of earliest activation of focal cardiac arrhythmias using mathematical optimization

In: Heart rhythm - New York, NY [u.a.]: Elsevier, Bd. 14.2017, 6, S. 875-882

[Imp.fact.: 4,866]

### ***Nicht begutachtete Zeitschriftenaufsätze***

**Kaibel, Volker; Walter, Matthias**

A note on matchings constructed during Edmonds' weighted perfect matching algorithm

In: Magdeburg Universität, Fakultät für Mathematik, 2017, 8 Seiten - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2017,Nr.06)

**Ni, Yanting; Werner, Frank**

Performance analysis of material handling tools for a discrete manufacturing system

In: Magdeburg Universität, Fakultät für Mathematik, 2017, 19 Seiten, Illustrationen - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2017,Nr.05)

**Sotskov, Yuri N.; Lai, Tsung-Chyan; Egorova, Natalia G.; Werner, Frank**

The optimality box in uncertain data for minimizing the sum of the weighted completion times of the given jobs

In: Magdeburg Universität, Fakultät für Mathematik, 2017, 23 Seiten - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2017,Nr.01)

### ***Begutachtete Buchbeiträge***

**Averkov, Gennadiy; Amitabh, Basu; Paat, Joseph**

Approximation of corner polyhedra with families of intersection cuts

In: Integer Programming and Combinatorial Optimization: 19th International Conference, IPCO 2017, Waterloo, ON, Canada, June 26-28, 2017, Proceedings - Cham: Springer International Publishing, S. 51-62 - (Lecture Notes in Computer Science; 10328)

[Konferenz: 19th International Conference, IPCO 2017, Waterloo, ON, Canada, June 26-28, 2017]

**Matke, Carsten; Bienstok, Danie; Munoz, Gonzalo; Yang, Shuoguang; Kleinhans, David; Sager, Sebastian**

Robust optimization of power network operation - storage devices and the role of forecast errors in renewable energies

In: Complex networks & their applications V - Newcastle upon Tyne, UK: Cambridge Scholars Pub, S. 809-820, 2017 - (Studies in computational intelligence; 693)

[Kongress: 5th International Workshop on Complex Networks and their Applications, Milan, Italy, 30.11.-02.12, 2016]

**Matke, Carsten; Medjroubi, Wided; Kleinhans, David; Sager, Sebastian**

Structure analysis of the German transmission network using the open source model SciGRID

In: Advances in Energy System Optimization: Proceedings of the first International Symposium on Energy System

Optimization - Cham: Springer International Publishing, S. 177-188, 2017

**Ni, Yanting; Werner, Frank**

Material handling tools for a discrete manufacturing system - a comparison of optimization and simulation

In: 2017 International Conference on Circuits, System and Simulation (ICCSS 2017): July 14-17, 2017, London, UK

- Piscataway, NJ: IEEE, S. 97-102

[Konferenz: 2017 International Conference on Circuits, System and Simulation, ICCSS 2017, London, UK, July 14-17, 2017]

# INSTITUT FÜR MATHEMATISCHE STOCHASTIK

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Prof. Dr. Rainer Schwabe - geschäftsführender Leiter (ab 01.04.2017)

apl. Prof. Dr. Waltraud Kahle  
Dr. Heiko Großmann

## 2. Veröffentlichungen

### ***Begutachtete Zeitschriftenaufsätze***

#### **Alonso Cabrera, Jesús; Schwabe, Rainer**

D-optimal design for a model with interaction between a qualitative and a quantitative factor in the presence of random block effects

In: Journal of statistical theory and practice - London [u.a.]: Taylor & Francis, Bd. 11.2017, 4, S. 759-770

#### **Benda, Norbert; Bürkner, Paul-Christian; Freise, Fritjof; Holling, Heinz; Schwabe, Rainer**

Adaptive designs for quantal dose-response experiments with false answers

In: Journal of statistical theory and practice - London [u.a.]: Taylor & Francis, Bd. 11.2017, 3, S. 361-374

#### **Christoph, Gerd; Monakhov, M. M.; Ulayanov, V. V.**

Razloženiya ebyševa džvorta i korniša fišera vtorogo porjadka dlja raspredelenij statistik, postroennyh po vyborkam slu ajnogo razmera

In: Zapiski nau nych seminarov POMI - Sankt-Peterburg, Bd. 466.2017, S. 167-207

#### **Häfner, Franziska; Kirch, Claudia**

Moving fourier analysis for locally stationary processes with the bootstrap in view

In: Journal of time series analysis: a journal sponsored by the Bernoulli Society for Mathematical Statistics and Probability - Oxford [u.a.]: Wiley-Blackwell, Bd. 38.2017, 6, S. 895-922

[Imp.fact.: 0,975]

#### **Maier, Oliver; Györfi, Benedikt; Wrede, Jürgen; Kasper, Roland**

Design and validation of a multi-body model of a front suspension bicycle and a passive rider for braking dynamics investigations

In: Multibody system dynamics - Dordrecht [u.a.]: Springer Science + Business Media B.V, Bd. 42.2018, 1, S. 19-45

[Imp.fact.: 1,389]

#### **Schmidt, Dennis; Schwabe, Rainer**

Optimal design for multiple regression with information driven by the linear predictor

In: Statistica Sinica - Taipei: Statistica Sinica, Institute of Statistical Science, Academia Sinica, Bd. 27.2017, 3, S. 1371-1384

[Imp.fact.: 0,899]

**Zhang, Bairu; Twycross-Lewis, Richard; Großmann, Heiko; Morrissey, Dylan**

Testing gait with ankle-foot orthoses in children with cerebral palsy by using functional mixed-effects analysis of variance

In: Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Vol. 7.2017, Art. 11081, insgesamt 12 S.

[Imp.fact.: 4,259]

***Nicht begutachtete Zeitschriftenaufsätze***

**Carpentier, Alexandra; Kim, Arlene**

An iterative hard thresholding estimator for low rank matrix recovery with explicit limiting distribution

In: De.arxiv.org - [S.I.]: Arxiv.org, insges. 40 S., 2017

**Christoph, Gerd; Monakhov, M. M.; Ulyanov, V. V.**

Second order Chebyshev-Edgeworth and Cornish-Fisher expansions for distributions of statistics constructed from samples with random sizes

In: Magdeburg Universität, Fakultät für Mathematik, 2017, 30 Seiten, Illustrationen - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2017,Nr.08)

[Literaturverzeichnis: Seite 28-30]

**Ghoshdastidar, Debarghya; Gutzeit, Maurilio; Carpentier, Alexandra; Luxemburg, Ulrike**

Two-sample tests for large random graphs using network statistics

In: De.arxiv.org - [S.I.]: Arxiv.org, insges. 24 S., 2017

**Harman, Radoslav; Prus, Maryna**

Computing optimal experimental designs with respect to a compound Bayes risk criterion

In: De.arxiv.org - [S.I.]: Arxiv.org, insges. 13 S., 2017

**Locatelli, Andrea; Carpentier, Alexandra; Kpotufe, Samory**

Adaptivity to noise parameters in nonparametric active learning

In: De.arxiv.org - [S.I.]: Arxiv.org, insges. 32 S., 2017

***Begutachtete Buchbeiträge***

**Dietrich, Stephanie; Kahle, Waltraud**

Optimal imperfect maintenance in a multi-state system

In: Recent Advances in Multi-state Systems Reliability: Theory and Applications - Cham: Springer International Publishing, S. 179-193, 2017

***Dissertationen***

**Holzhauser, Björn; Schwabe, Rainer [AkademischeR BetreuerIn]**

Meta-analysis of aggregate data on medical events. - Magdeburg, 2017, V, 152 Seiten, Illustrationen, Diagramme, 21 cm

[Literaturverzeichnis: Seite 111-124]

**Schmidt, Dennis; Schwabe, Rainer [AkademischeR BetreuerIn]**

Versuchsplanung für nichtlineare multiple Regressionsmodelle mit Anwendung auf zensierte Daten. - Magdeburg, 2017, IV, 127 Seiten