Publikationsbericht 2021

Otto-von-Guericke-Universität Magdeburg

OTTO-VON-GUERICKE-UNIVERSITÄT MAGDEBURG

1. LEITUNG

Prof. Dr.-Ing. habil. Jens Strackeljan (Rektor)
Dr. Jörg Wadzack (Kanzler)
Prof. Dr. Susanne Schmidt (Prorektorin für Studium und Lehre)
Prof. Dr. rer. nat. habil. Helmut Weiß (Prorektor für Planung und Haushalt)
Prof. Dr. phil. nat. Borna Relja (Prorektorin für Forschung, Technologie und Chancengleichheit)

2. FAKULTÄTEN

Fakultät für Elektrotechnik und Informationstechnik
Fakultät für Humanwissenschaften
Fakultät für Informatik
Fakultät für Maschinenbau
Fakultät für Mathematik
Fakultät für Naturwissenschaften
Fakultät für Verfahrens- und Systemtechnik
Fakultät für Wirtschaftswissenschaft
Medizinische Fakultät

EIT

FAKULTÄT FÜR
ELEKTROTECHNIK UND
INFORMATIONSTECHNIK

Publikationsbericht 2021

Fakultät für Elektrotechnik und Informationstechnik

FAKULTÄT FÜR ELEKTROTECHNIK UND INFORMATIONSTECHNIK

1. LEITUNG

Prof. Dr.-Ing. Achim Kienle

2. VERÖFFENTLICHUNGEN

ANDERE MATERIALIEN

Liu, Yu; Lindemann, Andreas [AkademischeR BetreuerIn]; Dieckerhoff, Sibylle [AkademischeR BetreuerIn]
Contribution to improve the EMI performance of electrical drive systems in vehicles with special consideration of power semiconductor modules
Magdeburg: Otto-von-Guericke-Universität Magdeburg, 2021, 1. Auflage, vi, VII, 115 Seiten, Illustrationen, Diagramme, 21 cm - (Res electricae Magdeburgenses; Band 82)

DISSERTATIONEN

Abdurahman, Shiras; Rose, Georg [AkademischeR BetreuerIn]; Speck, Oliver [AkademischeR BetreuerIn]
Data-driven beam hardening correction for cone beam computed tomography
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xvii, 125 Seiten, 14,04 MB), Illustrationen;

Andonov, Petar; Findeisen, Rolf [AkademischeR BetreuerIn]; Ortmeier, Frank [AkademischeR BetreuerIn]
Guaranteed set-based controller design for hybrid dynamical systems
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (II, 121 Seiten, 7,57 MB), Illustrationen;

Bismark, Richard; Rose, Georg [AkademischeR BetreuerIn]
On the application of the polychromatic statistical reconstruction technique to C-arm CT data
Magdeburg, 2021, 131 Seiten, Illustrationen, Diagramme, 30 cm

Gerlach, Andreas; Leidhold, Roberto [AkademischeR BetreuerIn]; Rottengruber, Hermann [AkademischeR BetreuerIn]
Regelung von direktangetriebenen elektrischen Maschinen für Verbrennungsmotoren
Magdeburg, 2021, 176 Seiten, Illustrationen, Diagramme, 30 cm

Golovin, Ievgen; Kienle, Achim [AkademischeR BetreuerIn]
Model-based control for active damping of crane structural vibrations
Magdeburg, 2021, ii, 129 Seiten, Illustrationen, Diagramme, 30 cm

Jabarivelisdeh, Banafsheh; Findeisen, Rolf [AkademischeR BetreuerIn]
Bioprocess optimization and control using dynamic constraint-based models
Magdeburg, 2021, XV, 119 Seiten, Illustrationen, Diagramme, 30 cm

Kallies, Christian; Findeisen, Rolf [AkademischeR BetreuerIn]
Approximated adaptive explicit parametric optimal control
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (VI, 137 Seiten, 1,45 MB), Diagramme;

Kasper, Johanna; Vick, Ralf [AkademischeR BetreuerIn]
Analysis of the stochastic electromagnetic field coupling to single and multiconductor transmission line structures
Magdeburg: Otto-von-Guericke-Universität Magdeburg, 2021, 1 Online-Ressource (ii, 160 Seiten), Illustrationen, Diagramme - (Res electricae Magdeburgenses; Band 86);

Kiselev, Aleksej; Leidhold, Roberto [AkademischeR BetreuerIn]
Modellbasierte prädiktive Regelung und Fehlererkennung für permanenterregte Synchronmaschinen
Magdeburg, 2021, ix, 99, XIV Blätter, Illustrationen, Diagramme, 30 cm

Klebingat, Stefan; Rose, Georg [AkademischeR BetreuerIn]; Saalfeld, Sylvia [AkademischeR BetreuerIn]; Bertrand, Jessica [AkademischeR BetreuerIn]
Vollautomatische Bestimmung von Hüfttotalendoprothesen-Parametern in routinemäßigen Röntgenbildern
Magdeburg, 2021, v, 171 Seiten, Illustrationen, Diagramme, 30 cm

Maiworm, Michael; Findeisen, Rolf [AkademischeR BetreuerIn]
Gaussian process in control - model predictive control with guarantees and control of scanning quantum dot microscopy
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (XII, 146 Seiten, 16,46 MB), Illustrationen;

Matschek, Janine; Findeisen, Rolf [AkademischeR BetreuerIn]
Learning-supported and force feedback model predictive control in robotics
Magdeburg, 2021, VIII, 163 Seiten, Illustrationen, Diagramme, 21 cm

Müller, Veit; Steinmann, Ulrike [AkademischeR BetreuerIn]; Zug, Sebastian [AkademischeR BetreuerIn]; Elkmann, Norbert [AkademischeR BetreuerIn]
Towards an in-hand object monitoring and object pose estimation in robotics featuring compliant, high-resolution tactile sensors
Magdeburg, 2021, XXII, 168 Seiten, Illustrationen, Diagramme, 30 cm

Pannicke, Enrico; Vick, Ralf [AkademischeR BetreuerIn]; Speck, Oliver [AkademischeR BetreuerIn]
Empfangsspulen für bildgeführte Eingriffe mittels Magnetresonanztomographie
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (ii, 208 Seiten, 100, 68 MB), Illustrationen - (Res electricae Magdeburgenses; Band 85);

Potluri, Sasanka; Diedrich, Christian [AkademischeR BetreuerIn]; Wendemuth, Andreas [AkademischeR BetreuerIn]
Efficient deep learning algorithms for securing Industrial Control Systems from cyberattacks
Magdeburg, 2021, xxviii, 268 Seiten, Illustrationen, Diagramme, 30 cm

Wang, Xiaowei; Vick, Ralf [AkademischeR BetreuerIn]
Estimation of radiated emissions from electrically large EUTs
Magdeburg, 2021, iv, 158 Seiten, Illustrationen, Diagramme, 30 cm

Zhang, Yonggang; Wolter, Martin [AkademischeR BetreuerIn]; Rudion, Krzysztof [AkademischeR BetreuerIn]
Analysis and control of resonances in HVDC connected DFIG-based offshore wind farm
Magdeburg: Otto-von-Guericke-Universität Magdeburg, 2021, 1. Auflage, XV, 129 Seiten, Illustrationen, Diagramme, 21 cm - (Res electricae Magdeburgenses; Band 84)

Zhao, Zhao; Leidhold, Roberto [AkademischeR BetreuerIn]; Vick, Ralf [AkademischeR BetreuerIn]
Common-mode current reduction technologies in four-wire inverter-fed motors
Magdeburg, 2021, iii, 134 Seiten, Illustrationen, Diagramme, 30 cm

Zipper, Holger; Diedrich, Christian [AkademischeR BetreuerIn]
Verfahren zur Synchronisation betriebsparalleler Simulationen durch Online-Parameterschätzung
Düsseldorf: VDI Verlag, 2021, XIII, 94 Seiten, Illustrationen, Diagramme, 21 cm - (Fortschritt-Berichte VDI; Reihe 8, Mess-, Steuerungs- und Regelungstechnik; Nr. 1271)

INSTITUT FÜR AUTOMATISIERUNGSTECHNIK

1. LEITUNG

Prof. Dr.-Ing. Christian Diedrich (Geschäftsführender Leiter)
Prof. Dr.-Ing. Rolf Findeisen
Prof. Dr.-Ing. Achim Kienle
Prof. Dr.-Ing. Ulrike Steinmann
Hon. Prof. Dr.-Ing. Ulrich Jumar

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Bakhchova, Liubov; Jantaree, Phatcharida; Gupta, Anubhuti; Isermann, Berend; Steinmann, Ulrike; Naumann, Michael
On-a-chip-based sensitive detection of drug-induced apoptosis in polarized gastric epithelial cells
ACS biomaterials science & engineering/ American Chemical Society - Washington, DC: ACS Publ., Bd. 7 (2021), 12, S. 5474-5483;
[Imp.fact.: 4.749]

Duvigneau, Stefanie; Dürr, Robert; Behrens, Jessica; Kienle, Achim
Advanced kinetic modeling of bio-co-polymer poly(3-hydroxybutyrate-co-3-hydroxyvalerate) production using fructose and propionate as carbon sources
Processes: open access journal - Basel: MDPI, Bd. 9 (2021), 8, insges. 19 S.;
[Imp.fact.: 2.824]

Duvigneau, Stefanie; Kettner, Alexander; Carius, Lisa; Griehl, Carola; Findeisen, Rolf; Kienle, Achim
Fast, inexpensive, and reliable HPLC method to determine monomer fractions in poly(3-hydroxybutyrate-co-3-hydroxyvalerate)
Applied microbiology and biotechnology - Berlin: Springer, Bd. 105 (2021), 5, S. 4743-4749;
[Imp.fact.: 3.53]

Dürr, Robert; Duvigneau, Stefanie; Seidel, Carsten; Kienle, Achim; Bück, Andreas
Multi-Rate data fusion for state and parameter estimation in (Bio-)chemical process engineering
Processes - Basel: MDPI, Bd. 9 (2021), 11, insges. 16 S.;
[Imp.fact.: 2.824]

Fechtner, Marcus; Kienle, Achim
Approximate shock layer solutions for the separation of multicomponent mixtures with different axial dispersion or mass transfer coefficients
Chemical engineering science - Amsterdam [u.a.]: Elsevier Science, Volume 231 (2021), article 116335;
[Imp.fact.: 3.871]

Jantaree, Phatcharida; Bakhchova, Liubov; Steinmann, Ulrike; Naumann, Michael
From 3D back to 2D monolayer stomach organoids-on-a-chip
Trends in biotechnology - Amsterdam [u.a.]: Elsevier Science, Bd. 39 (2021), 8, S. 745-748;
[Imp.fact.: 19.536]

Lee, Ju Weon
Double-layer simulated moving bed chromatography for ternary separations - serialized layer configurations
Industrial & engineering chemistry research: I & EC research - Columbus, Ohio: American Chemical Society, Bd. 60 (2021), 24, S. 8911-8926;
[Imp.fact.: 3.72]

Lee, Ju Weon; Kienle, Achim; Seidel-Morgenstern, Andreas
Numerical short-cut design of simulated moving bed chromatography for multicomponent nonlinear adsorption isotherms - nonstoichiometric Langmuir model
Industrial & engineering chemistry research - Columbus, Ohio: American Chemical Society, Bd. 60 (2021), 29, S. 10455-10834;
[Imp.fact.: 3.764]

Maiworm, Michael; Limon, Daniel; Findeisen, Rolf
Online learningbased model predictive control with Gaussian process models and stability guarantees
International journal of robust and nonlinear control - New York, NY [u.a.]: Wiley . - 2021, insges. 28 S.;
[Imp.fact.: 3.503]

Otto, Eric; Behrens, Jessica; Dürr, Robert; Palis, Stefan; Kienle, Achim
Control of particle formation processes
IFAC-PapersOnLine/ Internationale Förderung für Automatische Lenkung - Frankfurt: Elsevier, Bd. 54 (2021), 3, S. 231-236;

Otto, Eric; Dürr, Robert; Strenzke, Gerd; Palis, Stefan; Bück, Andreas; Tsotsas, Evangelos; Kienle, Achim
Kernel identification in continuous fluidized bed spray agglomeration from steady state data
Advanced powder technology: the international journal of the Society of Powder Technology, Japan - Amsterdam [u.a.]: Elsevier - the international journal of the Society of Powder Technology, Japan, Vol. 31 (2021), insgesamt 13 Seiten;
[Imp.fact.: 4.217]

Przywara, Mateusz; Dürr, Robert; Otto, Eric; Kienle, Achim; Antos, Dorota
Process behavior and product quality in fertilizer manufacturing using continuous hopper transfer pan granulation - experimental investigations
Processes - Basel: MDPI, Bd. 9 (2021), 8, insges. 18 S.;
[Imp.fact.: 2.824]

Seidel, Carsten; Nikolić, Daliborka; Felischak, Mattias; Petkovska, Menka; Seidel-Morgenstern, Andreas; Kienle, Achim
Optimization of methanol synthesis under forced periodic operation
Processes: open access journal - Basel: MDPI - open access journal, Bd. 9 (2021), 5;
[Imp.fact.: 2.753]

BEGUTACHTETE BUCHBEITRÄGE

Auris, Felix; Diedrich, Christian
Design guidelines for the evolutionary integration of physical behaviour models into plant simulations for production engineering
2021 22nd IEEE International Conference on Industrial Technology: Valencia Conference Centre - Online, Valencia, Spain, 10 - 12 March, 2021 : proceedings - Piscataway, NJ: IEEE . - 2021, S. 32-38;

Diedrich, Christian; Pakala, Harish Kumar
NOA und die Verwaltungsschale - initiales Konzept der NE 176
NAMUR Open Architecture (NOA): das Konzept zur Öffnung der Prozessautomatisierung / Thomas Tauchnitz (Hrsg.): das Konzept zur Öffnung der Prozessautomatisierung - Essen: Vulkan Verlag . - 2021, S. 56-62

Diedrich, Christian; Pakala, Harish Kumar
Pumpendiagnose
NAMUR Open Architecture (NOA): das Konzept zur Öffnung der Prozessautomatisierung / Thomas Tauchnitz (Hrsg.) - Essen: Vulkan Verlag; Tauchnitz, Thomas *1957-* . - 2021, S. 84-87

Diedrich, Christian; Schröder, Tizian
NOA schafft Voraussetzungen für neue digitale Dienste
NAMUR Open Architecture (NOA): das Konzept zur Öffnung der Prozessautomatisierung / Thomas Tauchnitz (Hrsg.) - Essen: Vulkan Verlag; Tauchnitz, Thomas *1957-* . - 2021, S. 74-76

Diedrich, Christian; Schröder, Tizian; Imbusch, Martin
Automatisierte Aktualisierung der Anlagendokumentation
NAMUR Open Architecture (NOA): das Konzept zur Öffnung der Prozessautomatisierung / Thomas Tauchnitz (Hrsg.) - Essen: Vulkan Verlag . - 2021, S. 87-88

Duvigneau, Stefanie; Dürr, Robert; Kranert, Lena; Wilisch-Neumann, Annette; Carius, Lisa; Findeisen, Rolf; Kienle, Achim
Hybrid cybernetic modeling of the microbial production of polyhydroxyalkanoates using two carbon sources
31th European Symposium on Computer Aided Process Engineering: ESCAPE-31 / edited by Metin Türkay and Rafiqul Gani: ESCAPE-31 - Amsterdam: Elsevier; Türkay, Metin - ESCAPE-31 . - 2021, S. 1969-1974

Dürr, Robert; Duvigneau, Stefanie; Kienle, Achim
Microbial production of polyhydroxyalkanoates - modeling of chain length distribution
31th European Symposium on Computer Aided Process Engineering: ESCAPE-31 / edited by Metin Türkay and Rafiqul Gani: ESCAPE-31 - Amsterdam: Elsevier; Türkay, Metin . - 2021, S. 1975-1982

Otto, Eric; Dürr, Robert; Przywara, Mateusz; Antos, Dorota; Kienle, Achim
Population balance modelling of pan granulation process
31th European Symposium on Computer Aided Process Engineering: ESCAPE-31 / edited by Metin Türkay and Rafiqul Gani: ESCAPE-31 - Amsterdam: Elsevier; Türkay, Metin - ESCAPE-31 . - 2021, S. 965-970

Simon, Michael; Steinmann, Ulrike
Effektive Modellierung und Simulation von zeitabhängiger Hörschallabstrahlung bei transienter Wellenausbreitung auf Oberflächen
Motor- und Aggregate-Akustik - 11. Magdeburger Symposium : Tagungsband [2021]: 11. Magdeburger Symposium : Tagungsband [2021]- Magdeburg: Universitätsbibliothek . - 2021, S. 97-117;

Strenzke, Gerd; Dürr, Robert; Bück, Andreas; Kienle, Achim; Tsotsas, Evangelos
Experimental investigation of process behaviour of continuous fluidized bed spray agglomeration with internal classification
Proceedings of the13th International Conference on Fluidized Bed Technology: CFB-13, Vancouver, Canada, May 10-14, 2021 / hosted by the Fluidization Research Centre, UBC/ International Conference on Fluidized Bed Technology - Vancouver, Canada: GLAB Reactor and Fluidization Technologies; Bi, Xiaotao - CFB-13, Vancouver, Canada, May 10-14, 2021 . - 2021, S. 374-379

Underberg, Lisa; Alex, Jens; Rauchhaupt, Lutz
Funkkommunikation in der Wasserwirtschaft - Anforderungsprofile und Bewertung der Eignung von Low Power Wide Area Networks
Kommunikation in der Automation (KommA 2021) - 12. Jahreskolloquium, 18.11.2021 : in Verbindung mit dem Industrial Radio Day, 17.11.2021 : Tagungsband/ Jahreskolloquium Kommunikation in der Automation - Magdeburg: Universitätsbibliothek; Jumar, Ulrich *1959-* . - 2021, insges. 11 S.;

HERAUSGEBERSCHAFTEN

Jumar, Ulrich; Jasperneite, Jürgen
Kommunikation in der Automation (KommA 2021) - 12. Jahreskolloquium, 18.11.2021 : in Verbindung mit dem Industrial Radio Day, 17.11.2021 : Tagungsband
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (202 Seiten, 17,1 MB), Illustrationen, Diagramme; Kongress: Jahreskolloquium Kommunikation in der Automation 12 (Magdeburg : 2021.11.18)

DISSERTATIONEN

Andonov, Petar; Findeisen, Rolf [AkademischeR BetreuerIn]; Ortmeier, Frank [AkademischeR BetreuerIn]
Guaranteed set-based controller design for hybrid dynamical systems
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (II, 121 Seiten, 7,57 MB), Illustrationen;

Golovin, Ievgen; Kienle, Achim [AkademischeR BetreuerIn]
Model-based control for active damping of crane structural vibrations
Magdeburg, 2021, ii, 129 Seiten, Illustrationen, Diagramme, 30 cm

Himmel, Andreas; Sundmacher, Kai [AkademischeR BetreuerIn]; Sager, Sebastian [AkademischeR BetreuerIn]
Optimization-based operation strategy and storage design for coupled processes
Magdeburg, 2021, e-o, 220 Seiten, Illustrationen, Diagramme, 24 cm

Jabarivelisdeh, Banafsheh; Findeisen, Rolf [AkademischeR BetreuerIn]
Bioprocess optimization and control using dynamic constraint-based models
Magdeburg, 2021, XV, 119 Seiten, Illustrationen, Diagramme, 30 cm

Kallies, Christian; Findeisen, Rolf [AkademischeR BetreuerIn]
Approximated adaptive explicit parametric optimal control
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (VI, 137 Seiten, 1,45 MB), Diagramme;

Maiworm, Michael; Findeisen, Rolf [AkademischeR BetreuerIn]
Gaussian process in control - model predictive control with guarantees and control of scanning quantum dot microscopy
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (XII, 146 Seiten, 16,46 MB), Illustrationen;

Matschek, Janine; Findeisen, Rolf [AkademischeR BetreuerIn]
Learning-supported and force feedback model predictive control in robotics
Magdeburg, 2021, VIII, 163 Seiten, Illustrationen, Diagramme, 21 cm

Müller, Veit; Steinmann, Ulrike [AkademischeR BetreuerIn]; Zug, Sebastian [AkademischeR BetreuerIn]; Elkmann, Norbert [AkademischeR BetreuerIn]
Towards an in-hand object monitoring and object pose estimation in robotics featuring compliant, high-resolution tactile sensors
Magdeburg, 2021, XXII, 168 Seiten, Illustrationen, Diagramme, 30 cm

Potluri, Sasanka; Diedrich, Christian [AkademischeR BetreuerIn]; Wendemuth, Andreas [AkademischeR BetreuerIn]
Efficient deep learning algorithms for securing Industrial Control Systems from cyberattacks
Magdeburg, 2021, xxviii, 268 Seiten, Illustrationen, Diagramme, 30 cm

Zipper, Holger; Diedrich, Christian [AkademischeR BetreuerIn]
Verfahren zur Synchronisation betriebsparalleler Simulationen durch Online-Parameterschätzung
Düsseldorf: VDI Verlag, 2021, XIII, 94 Seiten, Illustrationen, Diagramme, 21 cm - (Fortschritt-Berichte VDI; Reihe 8, Mess-, Steuerungs- und Regelungstechnik; Nr. 1271)

INSTITUT FÜR ELEKTRISCHE ENERGIESYSTEME

1. LEITUNG

Prof. Dr.-Ing. Roberto Leidhold

Prof. Dr.-Ing. Andreas Lindemann

Prof. Dr.-Ing. habil. Martin Wolter (geschäftsführender Leiter)

Dr.-Ing. Thomas Schallschmidt

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Benecke, Sebastian; Gerlach, Andreas; Leidhold, Roberto
Comprehensive design method and experimental examination of an electrical machine for a free piston linear generator
IEEE transactions on industrial electronics/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE . - 2021;
[Imp.fact.: 8.236]

Dancker, Jonte; Klabunde, Christian; Wolter, Martin
Sensitivity factors in electricity-heating integrated energy systems
Energy - Amsterdam [u.a.]: Elsevier Science, Bd. 229 (2021), insges. 12 S.;
[Imp.fact.: 7.147]

Dancker, Jonte; Wolter, Martin
Improved quasi-steady-state power flow calculation for district heating systems - a coupled Newton-Raphson approach
Applied energy - Amsterdam [u.a.]: Elsevier Science, Bd. 295 (2021), insges. 15 S.;
[Imp.fact.: 9.746]

Fritsch, Martin; Wolter, Martin
Transmission model of partial discharges on medium voltage cables
IEEE transactions on power delivery/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE . - 2021, insges. 10 S.;
[Imp.fact.: 4.131]

Gebhardt, Marc; Wolter, Martin
Nachbildung von Phasenschiebereffekten durch Stromquellen
Automatisierungstechnik - Berlin: De Gruyter, Bd. 69 (2021), 5, S. 409-416;

Hoerner, Stefan; Abbaszadeh, Shokoofeh; Cleynen, Olivier; Bonamy, Cyrille; Maître, Thierry; Thévenin, Dominique
Passive flow control mechanisms with bioinspired flexible blades in cross-flow tidal turbines
Experiments in fluids - Berlin: Springer, Bd. 62 (2021), insges. 14 S.;
[Imp.fact.: 2.48]

Hoerner, Stefan; Kösters, Iring; Vignal, Laure; Cleynen, Olivier; Abbaszadeh, Shokoofeh; Maître, Thierry; Thévenin, Dominique
Cross-flow tidal turbines with highly flexible blades - experimental flow field investigations at strong fluid-structure interactions
Energies - Basel: MDPI, Volume 14(2021), issue 4, article 797, 17 Seiten; http://dx.doi.org/10.3390/en14040797 10.25673/37301

Kempiak, Carsten; Lindemann, Andreas
A method for the measurement of the threshold-voltage shift of SiC MOSFETs during power cycling tests
IEEE transactions on power electronics/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE, Bd. 36 (2021), 6, S. 6203-6207;
[Imp.fact.: 6.373]

Schäfer, Johannes; Leidhold, Roberto
Steer-by-Wire - eine analytische Beurteilung von unterschiedlichen Zahnstangenkraftschätzungen im Fahrzeug
Automatisierungstechnik - Berlin: De Gruyter - AT, Bd. 69 (2021), 1, S. 65-72;
[Imp.fact.: 0.487]

Tayyab, Muhammad; Helm, Sebastian; Hauer, Ines; Brinken, Julius; Schmidtke, Niels
Infrastructure linking for placement of Charging stations using Monte Carlo simulation
IEEE Xplore digital library/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE . - 2021, S. 436-441;

Tempelhagen, Robin; Gerlach, Andreas; Benecke, Sebastian; Klepatz, Kevin; Leidhold, Roberto; Rottengruber, Hermann
Investigations for a trajectory variation to improve the energy conversion for a four-stroke free-piston engine
Applied Sciences - Basel: MDPI, Bd. 11 (2021), 13, insges. 30 S.;
[Imp.fact.: 2.679]

Vogt, Henning S.; Horn, Benjamin; Leidhold, Roberto
Verbrennungsmotorstart durch Resonanzanregung mit der Elektromaschine eines Hybrid-Antriebs
Elektrotechnik und Informationstechnik - Wien [u.a.]: Springer . - 2021;

Zhang, Yonggang; Klabunde, Christian; Wolter, Martin
Study of resonance issues between DFIG-based offshore wind farm and HVDC transmission
Electric power systems research - an international journal devoted to research and new applications in generation, transmission, distribution and utilization of electric power - Amsterdam [u.a.]: Elsevier Science, Volume 190 (2021), article 106767;
[Imp.fact.: 3.211]

Zhao, Zhao; Horn, Benjamin; Leidhold, Roberto
Optimized filter design for common-mode current reduction in four-wire inverter-fed motors
IEEE transactions on industrial electronics/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE, Bd. 69 (2022), 3, S. 2265-2275;
[Imp.fact.: 8.236]

Zhao, Zhao; Leidhold, Robert
On the estimation error of position sensorless control of PM synchronous motors
Energy reports - Amsterdam [u.a.]: Elsevier . - 2021, insges. 7 S.;
[Imp.fact.: 6.87]

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Lindemann, Andreas
9th ECPE SiC & GaN user forum - potential of wide bandgap semiconductors in power electronic applications : Munich/virtual (hybrid), 30. June - 01 July 2021
Bodo's power systems: electronics in motion and conversion - Laboe: A Media . - 2021, 8, S. 44-45

BEGUTACHTETE BUCHBEITRÄGE

Fritsch, Martin; Wolter, Martin
Measurable bandwidth of partial discharges on medium voltage cables
2020 IEEE Power & Energy Society General Meeting (PESGM) - [Piscataway, NJ]: IEEE . - 2021;

Helm, Sebastian; Tayyab, Muhammad; Hauer, Ines; Wolter, Martin; Balischewski, Stephan; Komarnicki, Przemyslaw
Potential analysis of EV and PHEV in Weak low-voltage grids
NEIS 2021/ NEIS - Berlin: VDE Verlag; Schulz, Detlef *1967-* . - 2021, S. 69-73

Kempiak, Carsten; Lindemann, Andreas
Impact of treshold voltage instabilities of SiC MOSFETs on the methodology of power cycling tests
PCIM Europe digital days 2021 - Berlin: VDE Verlag - International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management Proceedings, 3 – 7 May 2021 . - 2021, S. 676-684

Kempiak, Carsten; Schiffmacher, Alexander; Chupryn, Anton; Lindemann, Andreas; Wilde, Jürgen; Rudzki, Jacek; Osterwald, Frank
Accelerated qualification of highly reliable chip interconnect technology by power cycling under thermal overload
PCIM Europe digital days 2021 - Berlin: VDE Verlag - International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management Proceedings, 3 – 7 May 2021 . - 2021, S. 1385-1392

Li, Tianyu; Voigt, Christian; Lindemann, Andreas; Boettcher, Lars; Erhardt, Eugen
An embedded power section with GaN HEMTs
Proceedings of the Energy Conversion Congress and Exposition - Asia, 2021 (ECCE Asia 2021)/ IEEE Energy Conversion Congress & Exposition - Asia - [Piscataway, NJ]: IEEE . - 2021, S. 26-31;

Richter, André; Schröter, Tamara; Wolter, Martin
Importance of TSO forecast in power system processes - challenges in load, generation, storage and sector coupling forecast
ETG-Kongress 2021, das Gesamtsystem im Fokus der Energiewende/ ETG-Kongress - Berlin: VDE Verlag GMBH, 2021, Artikel 63, S. 402-407

Schiffmacher, Alexander; Strahringer, David; Malasani, Shreyas; Wilde, Jürgen; Kempiak, Carsten; Lindemann, Andreas
In Situ degradation monitoring methods during lifetime testing of power electronic modules
IEEE Xplore digital library/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE . - 2021, S. 895-903;

Schröter, Tamara; Richter, André; Wolter, Martin; Gronau, J.; Naumann, André
Integrated load and infeed forecast for the entire value chain in the electric energy market
2020 IEEE/PES Transmission and Distribution Conference and Exposition (T & D)/ IEEE/PES Transmission and Distribution Conference and Exposition - [Piscataway, NJ]: IEEE . - 2021;

Tayyab, Muhammad; Helm, Sebastian; Hauer, Ines; Silve, Leonardo Nogueira
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1. LEITUNG

Prof. Dr.-Ing. Thilo Pionteck (Geschäftsführender Leiter)
Prof. Dr.-Ing. habil. Holger Maune
Prof. Dr. rer. nat. Andreas Wendemuth
Jun.-Prof. Dr.-Ing. Ingo Siegert
apl. Prof. Dr.-Ing. habil. Ayoub Al-Hamadi

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR MEDIZINTECHNIK

1. LEITUNG

Prof. Dr. rer. nat. Christoph Hoeschen (geschäftsführender Leiter)
Prof. Dr.-Ing. Marco Leone
Prof. Dr. rer. nat. Georg Rose
Prof. Dr.-Ing. Ralf Vick
Dr.-Ing. Mathias Magdowski

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR MIKRO- UND SENSORSYSTEME

1. LEITUNG

apl. Prof. Dr. rer. nat. habil. Ralf Lucklum

2. VERÖFFENTLICHUNGEN

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FAKULTÄT FÜR
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Publikationsbericht 2021

Fakultät für Humanwissenschaften

FAKULTÄT FÜR HUMANWISSENSCHAFTEN

1. LEITUNG

Dekanin: Prof. Dr. Susanne Peters
Prodekan: Prof. Dr. Frank Bünning
Studiendekanin: Prof. Dr. Heike Ohlbrecht

2. VERÖFFENTLICHUNGEN

HABILITATIONEN

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INSTITUT I: BILDUNG, BERUF UND MEDIEN

1. LEITUNG

InstitutssprecherIn
Prof. Dr. Robert W. Jahn (Institutssprecher)
Prof. Dr. Olaf Dörner (Stellvertreter)
Prof.in Dr. Astrid Seltrecht (Stellvertreterin)

2. VERÖFFENTLICHUNGEN

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INSTITUT II: GESELLSCHAFTSWISSENSCHAFTEN

1. LEITUNG

Institutssprecher

Prof. Dr. Jan Delhey (Institutssprecher)

Prof. Dr. Michael Böcher (Stellvertreter)

Prof. Dr. Stephan Freund (Stellvertreter)

2. VERÖFFENTLICHUNGEN

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INSTITUT III: PHILOLOGIEN, PHILOSOPHIE, SPORTWISSENSCHAFT

1. LEITUNG

Prof. Dr. Kersten Sven Roth (Institutssprecher)
Prof. Dr. Héctor Wittwer (stellv. Institutssprecher)
Prof. Dr. Jürgen Edelmann-Nusser
Prof. Dr. Angelika Bergien (ass. Mitglied)

2. VERÖFFENTLICHUNGEN

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INF FAKULTÄT FÜR INFORMATIK

Publikationsbericht 2021

Fakultät für Informatik

FAKULTÄT FÜR INFORMATIK

1. LEITUNG

Prof. Dr. rer. pol. habil. Hans-Knud Arndt (Dekan)
Prof. Dr.-Ing. Holger Theisel (Prodekan)
Prof. Dr. Mesut Günes (Studiendekan)

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1. LEITUNG

Prof. Dr. David Hausheer (geschäftsführende Leitung)
Prof. Dr. rer. nat. Mesut Günes
Prof. Dr.-Ing. habil. Till Mossakowski

Sebastian Mai, M.Sc.
Dipl.-Inform. Michael Preuß

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INSTITUT FÜR SIMULATION UND GRAPHIK

1. LEITUNG

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Prof. Dr. Stefan Schirra
Rita Freudenberg
Dr. Volkmar Hinz
Dr. Christian Rössl

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR TECHNISCHE UND BETRIEBLICHE INFORMATIONSSYSTEME

1. LEITUNG

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Prof. Dr. Gunter Saake
Prof. Dr. Andreas Nürnberger
Dr.-Ing. David Broneske (bis 28.02.2021)
Dipl.-Wirtsch.-Inf. Dirk Dreschel
Dipl.-Ing. Fred Kreutzmann

2. VERÖFFENTLICHUNGEN

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1. LEITUNG

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Publikationsbericht 2021

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1. LEITUNG

Prof. Dr.-Ing. habil. Thorsten Halle (Dekan)
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2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR ARBEITSWISSENSCHAFT, FABRIKAUTOMATISIERUNG UND FABRIKBETRIEB

1. LEITUNG

Prof. Dr.-Ing. habil. Arndt Lüder (Geschäftsführender Institutsleiter)

Prof. Dr. oec. Julia Arlinghaus (Lehrstuhlinhaberin)

Dr.-Ing. Sonja Schmicker (Geschäftsführende Lehrstuhlleiterin)

Dipl.-Ing. Gerd Wagenhaus

Dipl.-Ing. Ulrich Brennecke

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR FERTIGUNGSTECHNIK UND QUALITÄTSSICHERUNG

1. LEITUNG

Geschäftsführender Institutsleiter:
Univ.-Prof. Dr.-Ing. habil. Dipl.-Phys. Matthias Hackert-Oschätzchen

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR LOGISTIK UND MATERIALFLUSSTECHNIK

1. LEITUNG

Univ.-Prof. Dr.-Ing. André Katterfeld (Geschäftsführender Institutsleiter)
Prof. Dr.-Ing. Hartmut Zadek
Hon.-Prof. Dr.-Ing. Klaus Richter
Dr.-Ing. Tobias Reggelin
Dipl.-Ing. Arnhild Gerecke

2. VERÖFFENTLICHUNGEN

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Prof. Dr.-Ing. Christiane Beyer (Geschäftsführende Institutsleiterin)
apl. Prof. Dr.-Ing. habil. Dirk Bartel (Vertreter wissenschaftlicher Mitarbeiter)
André Parfil (Vertreter nichtwissenschaftlicher Mitarbeiter)
Hon.-Prof. Dr. med. Dr. rer. nat. Oliver Ullrich (beratendes Mitglied)
Hon.-Prof. Dr.-Ing. Carsten Burchardt (beratendes Mitglied)

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INSTITUT FÜR MECHANIK

1. LEITUNG

Prof.Dr.-Ing.habil.Dr.h.c.mult. Holm Altenbach (Geschäftsführender Institutsleiter)
Dr.-Ing. Christian Daniel
Priv.-Doz.Dr.-Ing.habil. Rainer Glüge
Prof.Dr.-Ing. Daniel Juhre
Prof.Dr.-Ing. Hans Peter Monner
apl.Prof.Dr.-Ing.habil. Konstantin Naumenko
Jun.-Prof.Dr.-Ing. Elmar Woschke

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INSTITUT FÜR MOBILE SYSTEME

1. LEITUNG

Prof. Dr.-Ing. Hermann Rottengruber (geschäftsführender Leiter)
Priv. Doz. Dr.-Ing. Stephan Schmidt
Hon.-Prof. Dr.-Ing. Jens Hadler
Dr.-Ing. Martin Schünemann
Dr.-Ing. Tommy Luft
M. Sc. Johannes Oder
Dipl.-Ing. (FH) Steffen Schmidt
Stephan Czachurski

2. VERÖFFENTLICHUNGEN

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1. LEITUNG

Prof. Dr.-Ing. habil. Manja Krüger (Geschäftsführende Institutsleiterin)

Prof. Dr.-Ing. habil. Thorsten Halle

Prof. Dr.-Ing. Sven Jüttner

Prof. Dr. rer. nat. Michael Scheffler

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MATH FAKULTÄT FÜR MATHEMATIK

Publikationsbericht 2021

Fakultät für Mathematik

FAKULTÄT FÜR MATHEMATIK

1. LEITUNG

Prof. Dr. Alexander Pott (Dekan)
Prof. Dr. Miles Simon (Prodekan und Studiendekan)

2. VERÖFFENTLICHUNGEN

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Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xxiv, 155 Seiten, 12,85 MB), Formeln, Tabellen;

Kaspers, Christian; Pott, Alexander [AkademischeR BetreuerIn]
Equivalence problems of almost perfect nonlinear functions and disjoint difference families
Magdeburg, 2021, vii, 141 Seiten, Diagramme, 30 cm

Köhler, Martin; Benner, Peter [AkademischeR BetreuerIn]; Saak, Jens [AkademischeR BetreuerIn]
Approximate solution of non-symmetric generalized eigenvalue problems and linear matrix equations on HPC platforms
Berlin: Logos Verlag, 2022, xxv, 215 Seiten, Diagramme, 21 cm

Lam, Joseph; Carpentier, Alexandra [AkademischeR BetreuerIn]
Testing of distributions, minimax optimality and extensions
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xi, 180 Seiten), Diagramme;

Peters, Benjamin; Sager, Sebastian [AkademischeR BetreuerIn]
Monomial patterns in polynomial optimization
Magdeburg, 2021, VI, 125 Seiten, Illustrationen, Diagramme, 30 cm

Polujan, Alexandr; Pott, Alexander [AkademischeR BetreuerIn]
Boolean and vectorial functions - a design-theoretic point of view
Magdeburg, 2021, xviii, 152 Seiten, Diagramme, 30 cm

Uebbing, Jennifer; Sager, Sebastian [AkademischeR BetreuerIn]; Sundmacher, Kai [AkademischeR BetreuerIn]
Power-to-methane process synthesis via mixed integer nonlinear programming
Magdeburg, 2021, XII, 167 Seiten, Illustrationen, Diagramme, 30 cm

Wahl, Henry; Richter, Thomas [AkademischeR BetreuerIn]; Heiland, Jan [AkademischeR BetreuerIn]
Unfitted finite elements for fluid-rigid body interaction problems
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (viii, 170 Seiten, 17,45 MB), Illustrationen;

Werner, Steffen W. R.; Benner, Peter [AkademischeR BetreuerIn]
Structure-preserving model reduction for mechanical systems
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xxii, 270 Seiten, 5,19 MB), Illustrationen;

Zeile, Clemens; Sager, Sebastian [AkademischeR BetreuerIn]
Combinatorial integral decompositions for mixed-integer optimal control
Magdeburg, 2021, VIII, 254 Seiten, Illustrationen, Diagramme, 30 cm

INSTITUT FÜR ALGEBRA UND GEOMETRIE

1. LEITUNG

Prof. Dr. Thomas Kahle
Prof. Dr. Benjamin Nill (Institutsleiter)
Prof. Dr. Alexander Pott
Prof. Dr. Stefanie Rach
Prof. Dr. Petra Schwer

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Bauer, Thomas; Müller-Hill, Eva; Neuhaus-Eckhardt, Silke; Rach, Stefanie
Beweisverständnis im Mathematikstudium unterstützen: Vergleich unterschiedlicher Varianten der Strategie Illustrieren am Beispiel
Journal für Mathematik-Didaktik - Berlin: Springer . - 2021, insges. 36 S.;

Kahle, Thomas; Röttger, Frank; Schwabe, Rainer
The semialgebraic geometry of saturated optimal designs for the Bradley-Terry model
Algebraic statistics - Berkeley, Calif.: Mathematical Sciences Publishers, Bd. 12 (2021), 1, S. 97-114;

Kaspers, Christian; Zhou, Yue
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Journal of cryptology: the journal of the International Association for Cryptologic Research - New York, NY: Springer, Volume 34(2021), article number 4, 37 Seiten;
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Kretschmer, Andreas
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Mathematische Zeitschrift - Berlin: Springer . - 2021, insges. 22 S.;
[Imp.fact.: 0.964]

Kyureghyan, Gohar; Li, Shuxing; Pott, Alexander
On the intersection distribution of degree three polynomials and related topics
The electronic journal of combinatorics - [Madralin]: EMIS ELibEMS, Bd. 28 (2021), 2, insges. 25 S.;

Polujan, Alexandr; Pott, Alexander
On design-theoretic aspects of Boolean and vectorial bent function
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/ Institute of Electrical and Electronics Engineers - Piscataway, NJ: IEEE, Bd. 67 (2021), 2, S. 1027-1037;
[Imp.fact.: 3.036]

Rach, Stefanie; Ufer, Stefan; Kosiol, Timo
Die Rolle des Selbstkonzepts im Mathematikstudium - wie fit fühlen sich Studierende in Mathematik?
Zeitschrift für Erziehungswissenschaft - Berlin: Springer . - 2021, insges. 23 S.;

BEGUTACHTETE BUCHBEITRÄGE

Neuhaus, Silke; Rach, Stefanie
Hochschulmathematik in einem Lehramtsstudium - wie begründen Studierende deren Relevanz und wie kann die Wahrnehmung der Relevanz gefördert werden?
Lehrinnovationen in der Hochschulmathematik - Berlin, Heidelberg: Springer Berlin Heidelberg; Biehler, Rolf . - 2021, S. 205-226;

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Kaspers, Christian; Pott, Alexander [AkademischeR BetreuerIn]
Equivalence problems of almost perfect nonlinear functions and disjoint difference families
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Polujan, Alexandr; Pott, Alexander [AkademischeR BetreuerIn]
Boolean and vectorial functions - a design-theoretic point of view
Magdeburg, 2021, xviii, 152 Seiten, Diagramme, 30 cm

INSTITUT FÜR ANALYSIS UND NUMERIK

1. LEITUNG

Prof. Dr. Peter Benner (MPI Magdeburg)
Prof. Dr. Klaus Deckelnick
Prof. Dr. Hans-Christoph Grunau
Jun. Prof. Dr. Jan Heiland
Prof. Dr. Thomas Richter (Geschäftsführender Leiter)
Prof. Dr. Miles Simon
Prof. Dr. Gerald Warnecke
Priv.-Doz. Dr. Bernd Rummler nur bis 31.03.2022

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Barrett, John W.; Deckelnick, Klaus; Nürnberg, Robert
A finite element error analysis for axisymmetric mean curvature flow
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Barrett, John W.; Deckelnick, Klaus; Styles, Vanessa
A practical phase field method for an elliptic surface PDE
IMA journal of numerical analysis: IMAJNA/ Institute of Mathematics and Its Applications - Oxford: Oxford Univ. Press, Bd. 41 (2021), 3, S. 1668-1695;
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Galerkin trial spaces and Davison-Maki methods for the numerical solution of differential Riccati equations
Applied mathematics and computation - New York, NY: Elsevier, Bd. 410 (2021);
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Benner, Peter; Gugercin, Serkan; Werner, Steffen W. R.
Structure-preserving interpolation for model reduction of parametric bilinear systems
Automatica - Amsterdam [u.a.]: Elsevier, Pergamon Press, Bd. 132 (2021);
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Benner, Peter; Gugercin, Serkan; Werner, Steffen W. R.
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GAMM-Mitteilungen/ Gesellschaft für Angewandte Mathematik und Mechanik - Weinheim: Wiley-VCH, Bd. 44 (2021), 1, insges. 2 S.;

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Deckelnick, Klaus; Nürnberg, Robert
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Software impacts - [Amsterdam]: Elsevier ScienceDirect, Bd. 8 (2021), insges. 4 S.;

Grunau, Hans-Christoph
Optimal estimates from below for Green functions of higher order elliptic operators with variable leading coefficients
Archiv der Mathematik: ADM - Berlin: Springer, Bd. 117 (2021), S. 95-104;
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Convergence of coprime factor perturbations for robust stabilization of Oseen systems
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[Imp.fact.: 1.284]

Heiland, Jan; Zuazua, Enrique
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SIAM journal on control and optimization/ Society for Industrial and Applied Mathematics - Philadelphia, Pa.: Soc., Bd. 59 (2021), 5, S. 3600-3624;
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Kalosha, J. I.; Zuyev, Alexander
Asymptotic stabilization of a flexible beam with an attached mass
Ukrainian mathematical journal - New York, NY: Consultants Bureau, Bd. 73 (2021), 10, S. 1330-1341;

Lautsch, Leopold; Richter, Thomas
Error estimation and adaptivity for differential equations with multiple scales in time
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A novel p-harmonic descent approach applied to fluid dynamic shape optimization
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Computers & fluids: an international journal - Amsterdam [u.a.]: Elsevier Science, Volume 214 (2020), article 104769, 2021;
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A novel finite element approximation of anisotropic curve shortening flow
Magdeburg: Otto-von-Guericke-Universität, Fakultät für Mathematik, 2021, 31 Seiten, Diagramme - (Preprint; Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg; 2021, Nr. 2)

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Benner, Peter; Richter, Thomas; Weinhandl, Roman
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Numerical Mathematics and Advanced Applications ENUMATH 2019 - Cham: Springer International Publishing; Vermolen, Fred J. . - 2021, S. 1157-1165 - (Lecture notes in computational science and engineering; volume 139);

Benner, Peter; Seidel-Morgenstern, Andreas; Zuyev, Alexander
Analysis of switching strategies for the optimization of periodic chemical reactions with controlled flow-rate
Perspectives in Dynamical Systems III - Cham: Springer; Awrejcewicz, Jan . - 2021, S. 59-69 - (Springer proceedings in mathematics & statistics; volume 364);

Benner, Peter; Werner, Steffen W. R.
MORLAB - the model order reduction LABoratory
Model Reduction of Complex Dynamical Systems - Cham: Springer International Publishing; Benner, Peter . - 2021, S. 393-415;

Christoph, Gerd; Ulyanov, Vladimir V.
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Garmatter, Dominik; Maggi, Andrea; Wenzel, Marcus; Monem, Shaimaa; Hahn, Mirko; Stoll, Martin; Sager, Sebastian; Benner, Peter; Sundmacher, Kai
Power-to-chemicals - a superstructure problem for sustainable syngas production
Mathematical Modeling, Simulation and Optimization for Power Engineering and Management - Cham: Springer International Publishing; Göttlich, Simone . - 2021, S. 145-168 - (Mathematics in industry; volume 34);

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Benner, Peter; Breiten, Tobias; Faßbender, Heike; Hinze, Michael; Stykel, Tatjana; Zimmermann, Ralf
Model Reduction of Complex Dynamical Systems
Cham: Birkhäuser, 2021, 1 Online-Ressource (XIII, 415 p. 128 illus., 100 illus. in color.) - (Springer eBook Collection; International Series of Numerical Mathematics; 171);

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Stabilization of Distributed Parameter Systems: Design Methods and Applications
Cham: Imprint: Springer, 2021., 1st ed. 2021., 1 Online-Ressource(IX, 135 p. 32 illus., 22 illus. in color.) - (Springer eBook Collection; ICIAM 2019 SEMA SIMAI Springer Series; 2);

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A Galerkin method for large-scale autonomous differential Riccati equations based on the Loewner partial order
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xxiv, 155 Seiten, 12,85 MB), Formeln, Tabellen;

Köhler, Martin; Benner, Peter [AkademischeR BetreuerIn]; Saak, Jens [AkademischeR BetreuerIn]
Approximate solution of non-symmetric generalized eigenvalue problems and linear matrix equations on HPC platforms
Berlin: Logos Verlag, 2022, xxv, 215 Seiten, Diagramme, 21 cm

Wahl, Henry; Richter, Thomas [AkademischeR BetreuerIn]; Heiland, Jan [AkademischeR BetreuerIn]
Unfitted finite elements for fluid-rigid body interaction problems
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (viii, 170 Seiten, 17,45 MB), Illustrationen;

Werner, Steffen W. R.; Benner, Peter [AkademischeR BetreuerIn]
Structure-preserving model reduction for mechanical systems
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xxii, 270 Seiten, 5,19 MB), Illustrationen;

INSTITUT FÜR MATHEMATISCHE OPTIMIERUNG

1. LEITUNG

Prof. Dr. Sebastian Sager (geschäftsführender Leiter bis 31.03.2021)
Prof. Dr. Volker Kaibel (geschäftsführender Leiter seit 01.04.2021)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Khodabandeh, Pouria; Kayvanfar, Vahid; Rafiee, Majid; Werner, Frank
A bi-objective home health care routing and scheduling model with considering nurse downgrading costs
International journal of environmental research and public health: IJERPH - Basel: MDPI AG, Volume 18(2021), issue 3, article 900, 24 Seiten;
[Imp.fact.: 2.849]

Le, Do Duc; Merkert, Maximilian; Sorgatz, Stephan; Hahn, Mirko; Sager, Sebastian
Autonomous traffic at intersections - an optimization-based analysis of possible time, energy, and CO 2 savings
Networks: an international journal - New York, NY: Wiley . - 2021, insges. 26 S.;
[Imp.fact.: 5.059]

Liers, Frauke; Martin, Alexander; Merkert, Maximilian; Mertens, Nick; Michaels, Dennis
Solving mixed-integer nonlinear optimization problems using simultaneous convexification - a case study for gas networks
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[Imp.fact.: 2.207]

Minakowska, Martyna; Richter, Thomas; Sager, Sebastian
A finite element/neural network framework for modeling suspensions of non-spherical particles
Vietnam journal of mathematics: formerly Tạp chí Toán học (Journal of Mathematics) - Singapore: Springer, Bd. 49 (2021), 1, S. 207-235;

Orlovich, Yury; Kukharenko, Kirill; Kaibel, Volker; Skums, Pavel
Scale-free spanning trees and their application in genomic epidemiology
Journal of computational biology - Larchmont, NY: Liebert, Bd. 28 (2021), 10, S. 945-960;
[Imp.fact.: 1.479]

Robuschi, Nicolò; Zeile, Clemens; Sager, Sebastian; Braghin, Francesco
Multiphase mixed-integer nonlinear optimal control of hybrid electric vehicles
Automatica: a journal of IFAC, the International Federation of Automatic Control - Amsterdam [u.a.]: Elsevier, Pergamon Press, 123 (2021), Artikel 109325, insgesamt 10 Seiten;
[Imp.fact.: 5.541]

Sager, Sebastian; Zeile, Clemens
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Computational optimization and applications - New York, NY [u.a.]: Springer Science + Business Media B.V., Bd. 78 (2021), S. 575-623; http://dx.doi.org/10.1007/s10589-020-00244-5 10.25673/62614
[Imp.fact.: 2.167]

Schweidtmann, Artur M.; Esche, Erik; Fischer, Asja; Kloft, Marius; Repke, Jens-Uwe; Sager, Sebastian; Mitsos, Alexander
Machine learning in chemical engineering - a perspective
Chemie - Ingenieur - Technik - Weinheim: Wiley-VCH Verl., Bd. 93 (2021), 12, S. 2029-2039;
[Imp.fact.: 1.672]

Shahedi, Alireza; Nasiri, Mohammad Mahdi; Sangari, Mohamad Sadegh; Werner, Frank; Jolai, Fariborz
A stochastic multi-objective model for a sustainable closed-loop supply chain network design in the automotive industry
Process integration and optimization for sustainability - [Singapore]: Springer Singapore . - 2021;

Uebbing, Jennifer; Biegler, Lorenz T.; Rihko-Struckmann, Liisa; Sager, Sebastian; Sundmacher, Kai
Optimization of pressure swing adsorption via a trust-region filter algorithm and equilibrium theory
Computers & chemical engineering: an international journal of computer applications in chemical engineering - Amsterdam [u.a.]: Elsevier Science, Bd. 151 (2021);
[Imp.fact.: 3.845]

Vakhania, Nodari; Werner, Frank
Branch less, cut more and schedule jobs with release and delivery times on uniform machines
Mathematics: open access journal - Basel: MDPI, Volume 9(2021), issue 6, article 633, 18 Seiten;
[Imp.fact.: 1.747]

Werner, Frank
2020 selected papers from algorithms editorial board members
Algorithms - Basel, Bd. 14.2021, 2, insges. 2 S.;
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Werner, Frank
Special Issue Mathematical methods for operations research problems
Mathematics - Basel: MDPI, Bd. 9 (2021), 21, insges. 4 S.;
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Werner, Frank
Speciale issue "2021 selected papers from algorithms editorial board members"
Algorithms - Basel: MDPI, Bd. 14 (2021), 12, insges. 3 S.;

Zeile, Clemens; Rauwolf, Thomas; Schmeisser, Alexander; Mizerski, Jeremi Kaj; Braun-Dullaeus, Rüdiger; Sager, Sebastian
An intra-cycle optimal control framework for ventricular assist devices based on atrioventricular plane displacement modeling
Annals of biomedical engineering - Dordrecht [u.a.]: Springer Science + Business Media B.V, 1972, Bd. 49 (2021), 12, S. 3508-3523;
[Imp.fact.: 3.934]

Zeile, Clemens; Robuschi, Nicolò; Sager, Sebastian
Mixed-integer optimal control under minimum dwell time constraints
Mathematical programming - Berlin: Springer, Bd. 188 (2021), S. 653-694; http://dx.doi.org/10.1007/s10107-020-01533- 10.25673/68384
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NICHT BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Vakhania, Nodari; Werner, Frank
A polynomial algorithm for sequencing jobs with release and delivery times on uniform machines
Basel: MDPI, 2021, 1 Online-Ressource;

BEGUTACHTETE BUCHBEITRÄGE

Garmatter, Dominik; Maggi, Andrea; Wenzel, Marcus; Monem, Shaimaa; Hahn, Mirko; Stoll, Martin; Sager, Sebastian; Benner, Peter; Sundmacher, Kai
Power-to-chemicals - a superstructure problem for sustainable syngas production
Mathematical Modeling, Simulation and Optimization for Power Engineering and Management - Cham: Springer International Publishing; Göttlich, Simone . - 2021, S. 145-168 - (Mathematics in industry; volume 34);

HERAUSGEBERSCHAFTEN

Wagner, Gerd; Werner, Frank; Ören, Tuncer; De Rango, Floriano
11th International Conference on Simulation and Modeling Methodologies, Technologies and Applications 2021 - Editors: Gerd Wagner, Frank Werner, Tuncer Ören and Floriano De Rango ; SIMULTECH 2021, online streaming, 7-9 July 2021
[Setúbal, Portugal]: SCITEPRESS - Science and Technology Publications, Lda., 2021, Online-Ressource;
Kongress: International Conference on Simulation and Modeling Methodologies, Technologies and Applications 11 (Online : 2021.07.07-09)

DISSERTATIONEN

Himmel, Andreas; Sundmacher, Kai [AkademischeR BetreuerIn]; Sager, Sebastian [AkademischeR BetreuerIn]
Optimization-based operation strategy and storage design for coupled processes
Magdeburg, 2021, e-o, 220 Seiten, Illustrationen, Diagramme, 24 cm

Peters, Benjamin; Sager, Sebastian [AkademischeR BetreuerIn]
Monomial patterns in polynomial optimization
Magdeburg, 2021, VI, 125 Seiten, Illustrationen, Diagramme, 30 cm

Uebbing, Jennifer; Sager, Sebastian [AkademischeR BetreuerIn]; Sundmacher, Kai [AkademischeR BetreuerIn]
Power-to-methane process synthesis via mixed integer nonlinear programming
Magdeburg, 2021, XII, 167 Seiten, Illustrationen, Diagramme, 30 cm

Zeile, Clemens; Sager, Sebastian [AkademischeR BetreuerIn]
Combinatorial integral decompositions for mixed-integer optimal control
Magdeburg, 2021, VIII, 254 Seiten, Illustrationen, Diagramme, 30 cm

INSTITUT FÜR MATHEMATISCHE STOCHASTIK

1. LEITUNG

Prof. Dr. Alexandra Carpentier - geschäftsführende Leiterin (bis 31.08.2021)

Prof. Dr. Anja Janßen

Prof. Dr. Claudia Kirch - geschäftsführende Leiterin (seit 01.09.2021)

Dr. Heiko Großmann

Dr. Martin Wendler

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Carpentier, Alexandra; Verzelen, Nicolas
Optimal sparsity testing in linear regression model
Bernoulli: official journal of the Bernoulli Society for Mathematical Statistics and Probability - Aarhus, Bd. 27 (2021), 2, S. 727-750;
[Imp.fact.: 1.393]

Cho, Haeran; Kirch, Claudia
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NAT
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NATURWISSENSCHAFTEN

Publikationsbericht 2021

Fakultät für Naturwissenschaften

FAKULTÄT FÜR NATURWISSENSCHAFTEN

1. LEITUNG

Dekan

Prof. Dr. rer. nat. habil. Oliver Speck

Prodekan

Prof. Dr. med. Markus Ullsperger (bis 30.09.2020); Prof. Dr. rer. nat. habil. Jan Wiersig (ab 01.10.2020)

Studiendekan

Prof. Dr. rer. nat. Fred Schaper

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR BIOLOGIE

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Prof. Jochen Braun, Ph.D.

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1. LEITUNG

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Prof. Dr. rer. nat. habil. Jan Wiersig (stellv. Leiter)
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Dr. rer. nat. Gordon Schmidt (bis 30.4.2021)
Dr. rer. nat. Hartmut Witte (ab 1.5.2021)

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Prof. Dr. Markus Ullsperger

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FAKULTÄT FÜR VERFAHRENS-
UND SYSTEMTECHNIK

Publikationsbericht 2021

Fakultät für Verfahrens- und Systemtechnik

FAKULTÄT FÜR VERFAHRENS- UND SYSTEMTECHNIK

1. LEITUNG

Prof. Dr.-Ing. habil. Dominique Thévenin (Dekan)
Prof. Dr.-Ing. habil. Evangelos Tsotsas (Prodekan)
Prof. Dr. rer. nat. Franziska Scheffler (Studiendekanin)

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1. LEITUNG

Prof. Dr.-Ing. habil. Ulrich Krause (geschäftsführender Leiter)
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INSTITUT FÜR CHEMIE

1. LEITUNG

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1. LEITUNG

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INSTITUT FÜR VERFAHRENSTECHNIK

1. LEITUNG

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Prof. Dr.-Ing. habil. Martin Sommerfeld
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2. VERÖFFENTLICHUNGEN

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Pham, Son Thai; Kharaghani, Abdolreza [AkademischeR BetreuerIn]; Tsotsas, Evangelos [AkademischeR BetreuerIn]
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FAKULTÄT FÜR
WIRTSCHAFTSWISSENSCHAFT

Publikationsbericht 2021

Fakultät für Wirtschaftswissenschaft

FAKULTÄT FÜR WIRTSCHAFTSWISSENSCHAFT

1. LEITUNG

Prof. Dr. Andreas Knabe (Dekan)
Prof. Dr. Barbara Schöndube-Pirchegger (Prodekanin)
Prof. Dr. Sebastian Eichfelder (Fakultätsbeauftragter für Studienangelegenheiten)
Prof. Dr. Peter Reichling (Fakultätsbeauftragter für Internationale Beziehungen)
Prof. Dr. Abdolkarim Sadrieh (Fakultätsbeauftragter für Forschungsangelegenheiten)

2. VERÖFFENTLICHUNGEN

DISSERTATIONEN

Kühn, Frauke; Sarstedt, Marko [AkademischeR BetreuerIn]; Lichters, Marcel [AkademischeR BetreuerIn]
The importance of haptics in sensory marketing
Magdeburg, 2021, X, 166 Seiten, Illustrationen, Diagramme, 30 cm

Mavropoulos, Antonios; Koetter, Michael [AkademischeR BetreuerIn]; Noth, Felix [AkademischeR BetreuerIn]
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Oelrich, Sebastian; Chwolka, Anne [AkademischeR BetreuerIn]; Schmidt, Susanne [AkademischeR BetreuerIn]; Eichfelder, Sebastian [AkademischeR BetreuerIn]
Whistleblowing as a means to detect and prevent fraud - four essays from different behavioral and economic perspectives
Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (IV, 176 Seiten, 2,93 MB), Tabellen, Formel;

Pick, Mandy; Sarstedt, Marko [AkademischeR BetreuerIn]
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How labor market frictions matter for financial decision making
Magdeburg, 2021, 1 Band (verschiedene Seitenzählungen), Diagramme, 30 cm

DOZENTUR BWL, PRODUKTION UND LOGISTIK

1. LEITUNG

PD Dr. Rainer Kleber

FORSCHERGRUPPE IWH

1. LEITUNG

Prof. Reint E. Gropp, PhD (Präsident IWH)

2. VERÖFFENTLICHUNGEN

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Koetter, Michael; Popov, Alexander
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Individual housing decisions, mortgage supply and housing market regulations
Magdeburg, 2021, 1 Band (verschiedene Seitenzählungen), Diagramme, 30 cm

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How labor market frictions matter for financial decision making
Magdeburg, 2021, 1 Band (verschiedene Seitenzählungen), Diagramme, 30 cm

JUNIORPROFESSUR BWL, BEHAVIORAL ACCOUNTING

1. LEITUNG

Jun.-Prof. Dr. Max-Frederik Neubert

JUNIORPROFESSUR BWL, CONSUMER BEHAVIOR

1. LEITUNG

Jun.-Prof. Dr. Marcel Lichters (ab 03/2021 TU Chemnitz)

2. VERÖFFENTLICHUNGEN

DISSERTATIONEN

Kühn, Frauke; Sarstedt, Marko [AkademischeR BetreuerIn]; Lichters, Marcel [AkademischeR BetreuerIn]
The importance of haptics in sensory marketing
Magdeburg, 2021, X, 166 Seiten, Illustrationen, Diagramme, 30 cm

JUNIORPROFESSUR BWL, DATA-DRIVEN DECISION SUPPORT

1. LEITUNG

Jun.-Prof. Dr. Kai Heinrich

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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Decision support systems - Amsterdam [u.a.]: Elsevier, Bd. 143 (2021), insges. 14 S.;
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JUNIORPROFESSUR BWL, EXPERIMENTELLE WIRTSCHAFTSFORSCHUNG

1. LEITUNG

Jun.-Prof. Dr. Karina Held

LEHRSTUHL BWL, INSB. BETRIEBSWIRTSCHAFTLICHE STEUERLEHRE

1. LEITUNG

Prof. Dr. Sebastian Eichfelder

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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1. LEITUNG

Prof. Dr. Abdolkarim Sadrieh

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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LEHRSTUHL BWL, INSB. ENTREPRENEURSHIP

1. LEITUNG

Prof. Dr. Matthias Raith

LEHRSTUHL BWL, INSB. FINANZIERUNG UND BANKEN

1. LEITUNG

Prof. Dr. Peter Reichling

LEHRSTUHL BWL, INSB. INNOVATIONS- UND FINANZMANAGEMENT

1. LEITUNG

Prof. Dr. Elmar Lukas

2. VERÖFFENTLICHUNGEN

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1. LEITUNG

Prof. Dr. Susanne Schmidt

2. VERÖFFENTLICHUNGEN

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LEHRSTUHL BWL, INSB. MANAGEMENT SCIENCE

1. LEITUNG

seit 08/21: Prof. Dr. Marlin Ulmer
bis 03/21: Dr. Janis Sebastian Neufeld (LS-Vertretung)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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1. LEITUNG

Prof. Dr. Sören Köcher

2. VERÖFFENTLICHUNGEN

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LEHRSTUHL BWL, INSB. OPERATIONS MANAGEMENT

1. LEITUNG

Prof. Dr. Sven Müller

2. VERÖFFENTLICHUNGEN

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Koch, Matthes; Müller, Sven; Haase, Knut
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LEHRSTUHL BWL, INSB. UNTERNEHMENSFÜHRUNG UND ORGANISATION

1. LEITUNG

Prof. Dr. Thomas Spengler

LEHRSTUHL BWL, INSB. UNTERNEHMENSRECHNUNG UND CONTROLLING

1. LEITUNG

Prof. Dr. Barbara Schöndube-Pirchegger

LEHRSTUHL BWL, INSB. UNTERNEHMENSRECHNUNG/ACCOUNTING

1. LEITUNG

Prof. Dr. Anne Chwolka

2. VERÖFFENTLICHUNGEN

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The Impact of Corporate Culture and CMS - A Cross-Cultural Analysis on Internal and External Preventive Effects on Corruption
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LEHRSTUHL VWL, INSB. ANGEWANDTE WIRTSCHAFTSFORSCHUNG

1. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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Magdeburg, 2021, 213 Seiten, 30 cm

LEHRSTUHL VWL, INSB. FINANZWISSENSCHAFT

1. LEITUNG

Prof. Dr. Andreas Knabe

2. VERÖFFENTLICHUNGEN

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LEHRSTUHL VWL, INSB. INTERNATIONALE WIRTSCHAFT

1. LEITUNG

Prof. Dr. Karl Heinz Paqué

LEHRSTUHL VWL, INSB. VERHALTENSBASIERTE SOZIALPOLITIK

1. LEITUNG

Prof. Dr. Jeannette Brosig-Koch

LEHRSTUHL VWL, INSB. WIRTSCHAFTSPOLITIK

1. LEITUNG

Prof. Dr. Joachim Weimann

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Biermann, Philipp; Welsch, Heinz
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Prof. Dr. Christopher Schlägel (seit 11/2021)

PROFESSUR BWL, INSB. ECONOMICS OF BUSINESS AND LAW

1. LEITUNG

Prof. Dr. Roland Kirstein

PROFESSUR BWL, INSB. EMPIRISCHE WIRTSCHAFTSFORSCHUNG

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Prof. Dr. Dr. Bodo Vogt

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OTTO VON GUERICKE
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MED MEDIZINISCHE
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Publikationsbericht 2021

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Prof. Dr. rer. nat. Daniela C. Dieterich (Dekanin)
Prof. Dr. med. Maciej Pech (Prodekan für Struktur)
Prof. Dr. med. Florian Junne (Prodekan für Forschung)
Prof. Dr. med. Roland S. Croner (Prodekan für Klinische Angelegenheiten)
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DEKANAT

1. LEITUNG

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2. VERÖFFENTLICHUNGEN

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PD Dr. med. Anke Rißmann

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INNOVATION LABORATORY FOR IMAGE GUIDED THERAPY

1. LEITUNG

Prof. Dr. Michael Friebe
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2. VERÖFFENTLICHUNGEN

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Prof. Dr. med. Markus Herrmann, MPH, M.A.

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR BIOCHEMIE UND ZELLBIOLOGIE

1. LEITUNG

Prof. Dr. rer. nat. Klaus-Dieter Fischer

2. VERÖFFENTLICHUNGEN

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1. LEITUNG

Prof. Dr. rer. nat. Dr. med. Johannes Bernarding
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2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR EXPERIMENTELLE INNERE MEDIZIN

1. LEITUNG

Univ.-Prof. Dr. rer. nat. habil. Michael Naumann (Institutsdirektor)

2. VERÖFFENTLICHUNGEN

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Prof. Dr. Martin Zenker

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INSTITUT FÜR INFLAMMATION UND NEURODEGENERATION

1. LEITUNG

Prof. Dr. rer. nat. Ildiko Rita Dunay

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR KLINISCHE CHEMIE UND PATHOBIOCHEMIE

1. LEITUNG

OÄ Dr. med. Katrin Borucki (komm. Institutsleiterin)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Bernhardt, Anja; Häberer, Saskia; Xu, JingJing; Damerau, Hannah; Steffen, Johannes; Reichardt, Charlotte; Wolters, Katharina; Steffen, Hannes; Isermann, Berend; Borucki, Katrin; Artelt, Nadine; Endlich, Nicole; Kozyraki, Renata; Brandt, Sabine; Lindquist, Jonathan A.; Mertens, Peter Rene
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Magdeburg: Otto-von-Guericke-Universität Magdeburg, 2020, II-XI, 65 Blätter, Illustrationen, Diagramme

BEREICH PATHOLOGISCHE BIOCHEMIE

1. LEITUNG

Prof. Dr. med. Dr. rer. nat. Andreas Gardemann

INSTITUT FÜR KLINISCHE CHEMIE UND PATHOBIOCHEMIE

1. LEITUNG

OÄ Dr. med. Katrin Borucki (komm. Institutsleiterin)
OÄ Dr. med. Katrin Borucki (Arbeitsbereichsleiterin)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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INSTITUT FÜR KLINISCHE PHARMAKOLOGIE

1. LEITUNG

Prof. Dr. med. Dr. h. c. Stefanie M. Bode-Böger (geschäftsführende Direktorin)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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INSTITUT FÜR KOGNITIVE NEUROLOGIE UND DEMENZ-FORSCHUNG

1. LEITUNG

Prof. Dr. med. Emrah Düzel

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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INSTITUT FÜR MEDIZINISCHE MIKROBIOLOGIE UND KRANKENHAUSHYGIENE

1. LEITUNG

Prof. Dr. med. Achim J. Kaasch

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR MEDIZINISCHE PSYCHOLOGIE

1. LEITUNG

Prof. Dr. med. habil. B.A. Sabel, Ph.D. (geschäftsführender Leiter)

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR MOLEKULARBIOLOGIE UND MEDIZINISCHE CHEMIE

1. LEITUNG

Univ.-Prof. Mag. Dr. rer. nat. W. Hoffmann (Direktor)

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR MOLEKULARE UND KLINISCHE IMMUNOLOGIE

1. LEITUNG

Prof. Dr. med. Burkhart Schraven (geschäftsführender Direktor)

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR NEUROPATHOLOGIE

1. LEITUNG

Professor Dr. med. Christian Mawrin

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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1. LEITUNG

apl. Prof. Dr. med. Dörthe Jechorek (komm. Direktorin)

2. VERÖFFENTLICHUNGEN

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Prof. Dr. Christian Apfelbacher PhD

2. VERÖFFENTLICHUNGEN

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INSTITUT FÜR TRANSFUSIONSMEDIZIN UND IMMUNHÄMATOLOGIE MIT BLUTBANK

1. LEITUNG

Prof. Dr. med. Hans - Gert Heuft (Direktor)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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KLINIK FÜR UROLOGIE, UROONKOLOGIE, ROBOTERGESTÜTZTE UND FOKALE THERAPIE

1. LEITUNG

Prof. Dr. med. habil. Martin Schostak

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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Kushner, Julien Christian; Porsch, Markus [ErwähnteR]; Schlomm, Thorsten [ErwähnteR]
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Magdeburg: Otto-von-Guericke-Universität Magdeburg, 2020, 2-62 Blätter, Illustration, Diagramme

Neuwirth, Philipp; Porsch, Markus [ErwähnteR]; Schlüter, Dirk [ErwähnteR]
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Schittko, Julia; Powerski, Maciej Janusz [ErwähnteR]; Goebell, Peter Jürgen [ErwähnteR]
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Magdeburg: Otto-von-Guericke-Universität Magdeburg, 2020, verschiedene Seitenzählung, Illustrationen, Diagramme

LEHRBEREICH GESCHICHTE, ETHIK UND THEORIE DER MEDIZIN

1. LEITUNG

Prof. Dr. Eva Brinkschulte

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Doetz, Susanne
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Ärzteblatt Sachsen-Anhalt - offizielles Mitteilungsblatt der Ärztekammer Sachsen-Anhalt - Magdeburg: Ärztekammer Sachsen-Anhalt, Bd. 32 (2021), 10, S. 28-29

Brinkschulte, Eva; Urbach, Anna
Behandlung im Voraus planen - Chancen und Grenzen eines Beratungskonzepts : 4. Ethiktag der Universitätsmedizin Magdeburg
Ärzteblatt Sachsen-Anhalt - offizielles Mitteilungsblatt der Ärztekammer Sachsen-Anhalt - Magdeburg: Ärztekammer Sachsen-Anhalt, Bd. 32 (2021), 1/2, S. 30-31

DISSERTATIONEN

Rose-Hunstig, Gesine; Bogerts, Bernhard [ErwähnteR]; Schmiedebach, Heinz-Peter [ErwähnteR]
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Magdeburg: Otto-von-Guericke-Universität Magdeburg, 2021, 5 ungezählte Blätter, XXX, 71 Blätter, Illustrationen, Diagramme

ORTHOPÄDISCHE UNIVERSITÄTSKLINIK

1. LEITUNG

Prof. Dr. med. C. Lohmann

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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1. LEITUNG

Univ.-Prof. Dr. med. Rüdiger Lessig

TRANSLATIONALE ENTZÜNDUNGSFORSCHUNG

1. LEITUNG

Prof. Dr. Inna N. Lavrik

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSHAUTKLINIK

1. LEITUNG

Univ.-Prof. Dr. med. Thomas Tüting (Direktor)
OÄ Dr. med. Mareike Alter
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OA Dr. med. Ingolf Franke
OÄ Prof. Dr. med. Evelyn Gaffal
OÄ Dr. med. Luise Jopen
OA Dr. med. Robert Vetter

Ehemalige Mitarbeiter der Klinik:
Prof. Dr. med. Harald Gollnick (EM)
apl. Prof. Dr. med. Sven Quist
PD Dr. med. Daniela Göppner

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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UNIVERSITÄTSKINDERKLINIK

1. LEITUNG

Prof. Dr. med. Denis Schewe (Klinikdirektor)
Prof. Dr. habil Monika Christine Brunner-Weinzierl

2. VERÖFFENTLICHUNGEN

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EXPERIMENTELLE PÄDIATRIE UND NEONATOLOGIE

PÄDIATRISCHE HÄMATOLOGIE UND ONKOLOGIE DER UNIVERSITÄTSKINDERKLINIK

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UNIVERSITÄTSKLINIK FÜR ALLGEMEIN-, VISZERAL-, GEFÄSS- UND TRANSPLANTATIONSCHIRURGIE

1. LEITUNG

Prof. Dr. med. Roland S. Croner, MA, FACS

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BEREICH GEFÄSSCHIRURGIE

1. LEITUNG

Prof. Dr. med. habil. Zuhir Halloul

BEREICH KINDERCHIRURGIE UND KINDERTRAUMATOLOGIE

1. LEITUNG

Dr. med. Hardy Krause

2. VERÖFFENTLICHUNGEN

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MOLEKULARE UND EXPERIMENTELLE CHIRURGIE

1. LEITUNG

Prof. Dr. med. Roland S. Croner, MA, FACS

UNIVERSITÄTSKLINIK FÜR ANAESTHESIOLOGIE UND INTENSIVTHERAPIE

1. LEITUNG

Prof. Dr. med. Dr. Thomas Hachenberg (Direktor)

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR FRAUENHEILKUNDE, GEBURTSHILFE UND REPRODUKTIONSMEDIZIN

1. LEITUNG

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Leitung Experimentelle Gynäkologie und Geburtshilfe:
Prof. Dr. rer nat. Ana Claudia Zenclussen

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR GASTROENTEROLOGIE, HEPATOLOGIE UND INFEKTIOLOGIE

1. LEITUNG

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Sektion Molekulare Gastroenterologie und Mikrobiota-assoziierte Erkrankungen (inkl. Forschungslabor)
Leiter Prof. Dr. med. Alexander Link

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR HALS-, NASEN- UND OHREN-HEILKUNDE, KOPF- UND HALSCHIRURGIE

1. LEITUNG

Prof. Dr. med. Christoph Arens bis 31.07.2021, Prof. Dr. med. Ulrich Vorwerk ab 01.08.2021

2. VERÖFFENTLICHUNGEN

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ABTEILUNG FÜR EXPERIMENTELLE AUDIOLOGIE

1. LEITUNG

Prof. Dr. rer. nat. Jesko L. Verhey

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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Zimmer, Victoria; Mohnike, Klaus [ErwähnteR]; Wermke, Kathleen [ErwähnteR]
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UNIVERSITÄTSKLINIK FÜR HERZ- UND THORAXCHIRURGIE

1. LEITUNG

Prof. Dr. med. Jens Wippermann (geschäftsführender Leiter)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Awad, George; Pohl, Robert; Darius, Sabine; Thielmann, Beatrice; Kuzmin, Boris; Slottosch, Ingo Jürgen; Wippermann, Jens; Schmidt, Hendrik; Scherner, Maximilian Philipp; Böckelmann, Irina
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Herzfrequenzvariabilität: Anwendungen in Forschung und Praxis - 8. Internationales HRV-Symposium am 14. November 2020/ Internationales HRV-Symposium - Hamburg: Feldhaus Edition Czwalina; Hottenrott, Kuno *1959-* - 8. Internationales HRV-Symposium am 14. November 2020 . - 2021, S. 53-61

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Bever, Carla; Walles, Thorsten; Wiese-Rischke, Cornelia
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Transplant international - Oxford [u.a.]: Wiley-Blackwell, 1988, Bd. 34 (2021), Suppl. 1, S. 154;
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The thoracic and cardiovascular surgeon - Stuttgart: Thieme, 1953, Bd. 69 (2021), S01, insges. 1 S.;
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UNIVERSITÄTSKLINIK FÜR HÄMATOLOGIE UND ONKOLOGIE

1. LEITUNG

bis 30.09.2021: Prof. Dr. med. Th. Fischer
seit 15.11.2021: Prof. Dr. med. D. Mougiakakos

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Bachmann, Friederike; Schreder, Martin; Engelhardt, Monika; Langer, Christian; Wolleschak, Denise; Mügge, Lars-Olof; Dürk, Heinz; Schäfer-Eckart, Kerstin; Blau, Igor-Wolfgang; Gramatzki, Martin; Liebisch, Peter; Grube, Matthias; Metzler, Ivana V.; Bassermann, Florian; Metzner, Bernd; Röllig, Christoph; Hertenstein, Bernd; Khandanpour, Cyrus; Dechow, Tobias; Hebart, Holger; Jung, Wolfram; Theurich, Sebastian; Maschmeyer, Georg; Salwender, Hans; Heß, Georg; Bittrich, Max; Rasche, Leo; Brioli, Annamaria; Eckardt, Kai-Uwe; Straka, Christian; Held, Swantje; Einsele, Hermann; Knop, Stefan
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2. VERÖFFENTLICHUNGEN

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1. LEITUNG

Prof. Dr. Hans-Henning Flechtner

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR MUND-, KIEFER- UND GESICHTSCHIRURGIE

1. LEITUNG

Dr. med. Dr. med. dent. Christian Zahl (kommissarischer Klinikdirektor)

2. VERÖFFENTLICHUNGEN

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Prof. Dr. med. I. Erol Sandalcioglu (Direktor)

2. VERÖFFENTLICHUNGEN

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1. LEITUNG

Univ.-Prof. Dr. Aiden Haghikia

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UNIVERSITÄTSKLINIK FÜR NEURORADIOLOGIE

1. LEITUNG

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2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR NIEREN- UND HOCHDRUCK-KRANKHEITEN, DIABETOLOGIE UND ENDOKRINOLOGIE

1. LEITUNG

Prof. Dr. med. Peter R. Mertens (Direktor)

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR PLASTISCHE, ÄSTHETISCHE UND HANDCHIRURGIE

1. LEITUNG

Prof. Dr. med. habil. Manfred Infanger (Direktor)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

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Professor Dr. med. habil. Jens Schreiber

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UNIVERSITÄTSKLINIK FÜR PSYCHIATRIE UND PSYCHOTHERAPIE

1. LEITUNG

Prof. Dr. med. Johann Steiner (kommissarischer Direktor)

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR PSYCHOSOMATISCHE MEDIZIN UND PSYCHOTHERAPIE

1. LEITUNG

Prof. Dr. med. Florian Junne, M.Sc. IHP (LSE)

2. VERÖFFENTLICHUNGEN

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UNIVERSITÄTSKLINIK FÜR RADIOLOGIE UND NUKLEARMEDIZIN

1. LEITUNG

Direktor Prof. Dr. med. Maciej Pech

2. VERÖFFENTLICHUNGEN

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Prof. Dr. med. Jürgen Voges

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1. LEITUNG

Prof. Dr. med. habil. Dipl. Phys. Günther Gademann (Direktor)

2. VERÖFFENTLICHUNGEN

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1. LEITUNG

Prof. Dr. med. Felix Walcher, Klinikdirektor

2. VERÖFFENTLICHUNGEN

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ZENTRALE NOTAUFNAHME

1. LEITUNG

Dr. med. Tobias Hofmann

2. VERÖFFENTLICHUNGEN

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Publikationsbericht 2021

Zentrale Einrichtungen

ZENTRALE EINRICHTUNGEN

AKADEMISCHES AUSLANDSAMT

1. LEITUNG

Uwe Genetzke

BÜRO DES REKTORATS

1. LEITUNG

Dr. Volker-Uwe Kirbs

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFSÄTZE

Zöllner, Dana
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MEDIEN, KOMMUNIKATION UND MARKETING

1. LEITUNG

Anneke Richter (Geschäftsführende Leiterin)
Stefanie Thärig (Geschäftsführende Leiterin)

SPORTZENTRUM

1. LEITUNG

Dr. Mario Damerow

SPRACHENZENTRUM

1. LEITUNG

Wissenschaftliche Leiterin Prof. Dr. phil. habil. Renate Belentschikow
Geschäftsführender Leiter: Holger Illian

TRANSFER- UND GRÜNDERZENTRUM

1. LEITUNG

Dr. Gerald Böhm

UNIVERSITÄTSBIBLIOTHEK

1. LEITUNG

Linda Thomas

2. VERÖFFENTLICHUNGEN

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Dr. Gregor Zimmermann