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EIT

FAKULTÄT FÜR
ELEKTROTECHNIK UND
INFORMATIONSTECHNIK

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Fakultät für Elektrotechnik und Informationstechnik

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1. LEITUNG

Prof. Dr.-Ing. Achim Kienle

2. VERÖFFENTLICHUNGEN

HABILITATIONEN

Böck, Ronald; Wendemuth, Andreas [AkademischeR BetreuerIn]

Anticipate the user - multimodal analyses in human-machine interaction towards group interactions

Dresden: TUDpress, 2020, xxiii, 354 Seiten, Illustrationen, Diagramme, 24 cm - (Studentexte zur Sprachkommunikation; Band 98);

[Literaturverzeichnis: Seite 302-354]

DISSERTATIONEN

Balischewski, Stephan; Hauer, Ines [AkademischeR BetreuerIn]; Wolter, Martin [AkademischeR BetreuerIn]

Multifunktionaler Einsatz von Batteriespeichern in elektrischen Verteilnetzen - optimale Auslegung und Betrieb
Barleben: docupoint GmbH, 2020, 1. Auflage, vi, 127 Seiten, Illustrationen, Diagramme, 21 cm - (Res electricae Magdeburgenses; Band 79);

[Literaturverzeichnis: Seite 102-112]

Bednarz, Christian; Leone, Marco [AkademischeR BetreuerIn]

Modale Netzwerkmodellierung elektrischer Verbindungsstrukturen mittels eines quasistatischen Feldintegralansatzes

Magdeburg, 2020, IX, 153 Seiten, Illustrationen, Diagramme, 21 cm;

[Literaturverzeichnis: Seite 143-153]

Egorow, Olga; Wendemuth, Andreas [AkademischeR BetreuerIn]; Diedrich, Christian [AkademischeR BetreuerIn]

Accessing the interlocutor - recognition of interaction-related interlocutor states in multiple modalities

Magdeburg, 2020, I, xv, 143 Seiten, Illustrationen, Diagramme, 30 cm;

[Literaturverzeichnis: Seite 117-143]

Hoffmann, Thomas; Rose, Georg [AkademischeR BetreuerIn]; Juhre, Daniel [AkademischeR BetreuerIn]

Verfahren zur Erhöhung der visuellen Wahrnehmung neurovaskulärer Stents unter Röntgendurchleuchtung

Magdeburg, 2020, XIV, 108 Seiten, Illustrationen, Diagramme, 30 cm;

[Literaturverzeichnis: Seite 92-97]

Lindhorst, Henning; Kienle, Achim [AkademischeR BetreuerIn]

Modeling and simulation of enzyme controlled metabolic networks using optimization based methods
Magdeburg, 2020, III, 133 Seiten, Diagramme, 30 cm;
[Literaturverzeichnis: Seite 121-129]

Middelstädt, Lars; Lindemann, Andreas [AkademischeR BetreuerIn]

Transiente Effekte in leistungselektronischen Schaltungen mit schnellschaltenden Leistungshalbleitern unter besonderer Berücksichtigung der elektromagnetischen Verträglichkeit
Barleben: docupoint GmbH, 2020, 1. Auflage, xvi, 158 Seiten, Illustrationen, Diagramme, 21 cm - (Res electricae Magdeburgenses; Band 81);
[Literaturverzeichnis: Seite 135-147]

Neugebauer, Christoph; Kienle, Achim [AkademischeR BetreuerIn]; Palis, Stefan [AkademischeR BetreuerIn]

Modeling, dynamics and control of continuous fluidized bed layering granulation processes
Magdeburg, 2020, xii, 139 Seiten, Illustrationen, Diagramme, 21 cm;
[Literaturverzeichnis: Seite 121-131]

Petzold, Jörg; Vick, Ralf [AkademischeR BetreuerIn]; Gronwald, Frank [AkademischeR BetreuerIn]

Analytische Beschreibung der Kopplung elektromagnetischer Felder durch Aperturen in Resonatoren
Barleben: docupoint GmbH, 2020, ii, 136 Seiten, Diagramme, 21 cm - (Res electricae Magdeburgenses; Band 80);
[Literaturverzeichnis: Seite 129-135]

Seidel, Heiko; Diedrich, Christian [AkademischeR BetreuerIn]

Workflow-Unterstützung von IT-basierten Engineering-Prozessen in der Bahnautomatisierung
Magdeburg, 2019, VIII, 116 Seiten, Illustrationen, Diagramme, 21 cm;
[Dissertation wurde am 04.12.2019 vorgelegt, ihre Verteidigung erfolgte am 07.05.2020; Literaturverzeichnis: Seite 110-116]

Süß, Sebastian; Diedrich, Christian [AkademischeR BetreuerIn]

Klassifikation mechatronischer Komponenten und deren durchgängige Nutzung im Engineering
Norderstedt: BoD Books on Demand, 2020, viii, 157 Seiten, Illustrationen, Diagramme, 21 cm, 258 g;
[Literaturverzeichnis: Seite 135-145]

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1. LEITUNG

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Hon. Prof. Dr.-Ing. Ulrich Jumar
Jun.-Prof. Dr.-Ing. Stefan Palis

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Bakhchova, Liubov; Jonusauskas, Linas; Dovil, Andrijec; Kurachkina, Marharyta; Baravykas, Tomas; Eremin, Alexey; Steinmann, Ulrike

Femtosecond laser-based integration of nano-membranes into organ-on-a-chip systems
Materials - Basel: MDPI, 2008, Volume 13 (2020), issue 14, article 3076;
[Imp.fact.: 2.972]

Bakhchova, Liubov; Steinmann, Ulrike

Flexibler organischer elektrochemischer Transistor als Biosensor für Organ-on-a-Chip
Technisches Messen: tm ; Sensoren, Geräte, Systeme ; Organ des AMA Fachverbands für Sensorik e.V. und der NAMUR, Normenarbeitsgemeinschaft für Mess- und Regelungstechnik der Chemischen Industrie - Berlin: De Gruyter, 1976, Volume 87 (2020), Heft s1, Seite s114-s119;
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Chernev, Valentin Plamenov; Wouwer, Alain Vande; Kienle, Achim

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[This article belongs to the Special Issue Advanced Methods in Process and Systems Engineering]
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Duvigneau, Stefanie; Dürr, Robert; Laske, Tanja; Bachmann, Mandy; Dostert, Melanie; Kienle, Achim

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PLoS Computational Biology: a new community journal/ Public Library of Science - San Francisco, Calif.: Public Library of Science, 2005, Volume 16 (2020), issue 6, article e1007810, 22 pages;

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Akustische Zeitumkehrfokussierung in Wasser mittels FPGA-basierter Plattform
Technisches Messen : tm ; Sensoren, Geräte, Systeme ; Organ des AMA Fachverbands für Sensorik e.V. und der NAMUR, Normenarbeitsgemeinschaft für Mess- und Regelungstechnik der Chemischen Industrie - Berlin : De Gruyter - Volume 87 (2020), Heft s1, Seite s68-s73

Giesler, Jasper; Pesch, Georg R.; Weirauch, Laura; Schmidt, Marc-Peter; Thöming, Jorg; Baune, Michael

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Adaptive predictive control of bioprocesses with constraint-based modeling and estimation

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Kutia, Mykhailo; Mukhin, Nikolay; Petrova, Hanna; Oseev, Aleksandr; Bakhchova, Liubov; Schmidt, Marc-Peter; Aman, Alexander; Palis, Stefan; Tarasov, Sergey; Hirsch, Soeren

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Chemical engineering science - Amsterdam [u.a.]: Elsevier Science, 1951, Volume 226 (2020), article 115808;

[Imp.fact.: 3.372]

Meanovi, Amer; Münz, Ulrich; Szabo, Andrei; Mangold, Martin; Bamberger, Joachim; Metzger, Michael; Heyde, Chris; Krebs, Rainer; Findeisen, Rolf

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Control engineering practice: a journal of IFAC, the International Federation of Automatic Control - Amsterdam [u.a.]: Elsevier Science, 1993, Volume 101 (2020), article 104490;

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Mukhin, Nikolay; Sokolova, Irina; Chigirev, Dmitry; Rudaja, Lyudmila; Lebedeva, Galina; Kastro, Rene; Bolshakov, Maxim; Schmidt, Marc-Peter; Hirsch, Soeren

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Journal of composites science - Basel: MDPI, 2017, Volume 4 (2020), issue 4, article 151, 33 Seiten;

Verma, Parul; Eaton, Muriel; Kienle, Achim; Flockerzi, Dietrich; Yang, Yang; Ramkrishna, Doraiswami

Examining sodium and potassium channel conductances involved in hyperexcitability of chemotherapy-induced peripheral neuropathy - a mathematical and cell culture-based study

Frontiers in computational neuroscience - Lausanne: Frontiers Research Foundation, 2007, Vol. 14 (2020), Article 564980;

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[Imp.fact.: 3.573]

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Böhm, Felix; Siegert, Ingo; Belyaev, Alexander; Diedrich, Christian

An analysis of the applicability of VoiceXML as basis for a dialog control flow in industrial interaction management

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[Konferenz: 25th IEEE International Conference on Emerging Technologies and Factory Automation, ETFA, Vienna, Austria, 8-11 Sept. 2020]

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Entwurf komplexer Automatisierungssysteme - EKA 2020 : Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : 16. Fachtagung mit Spezial-Workshop "Modellierungsansätze für eine semantische Interoperabilität in industriellen Systemen" : 2020 [in Magdeburg]: [Abstracts]: EKA 2020 : Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : 16. Fachtagung mit Spezial-Workshop "Modellierungsansätze für eine semantische Interoperabilität in industriellen Systemen" : 2020 [in Magdeburg]: [Abstracts]- Magdeburg: ifak - Institut für Automation und Kommunikation e.V., 2020 . - 2020, insges. 10 S.;

[Tagung: 16. Fachtagung EKA 2020]

Edner, Falco; Tornow, Michael; Steinmann, Ulrike

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Fortschritte der Akustik - DAGA 2020: 46. Jahrestagung für Akustik, 16.-19. März 2019 in Hannover - Berlin: Deutsche Gesellschaft für Akustik e.V. (DEGA), 2020 . - 2020, S. 142-145;

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Engell, Sebastian; Kienle, Achim

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Preparative chromatography / edited by Henner Schmidt-Traub, Michael Schulte, Andreas Seidel-Morgenstern - Weinheim: Wiley-VCH, 2020 . - 2020, S. 504-524;

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Fechtner, Marcus; Kienle, Achim

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30th European Symposium on Computer Aided Chemical Engineering/ European Symposium on Computer Aided Chemical Engineering - Amsterdam: Elsevier, 2020; Pierucci, Sauro . - 2020, S. 733-738;

[Symposium: ESCAPE30, May 24-27, 2020, Milan, Italy]

Hörnschemeyer, Marius; Kunde, Christian

Deterministic global optimization of multistage membrane gas separation using surrogate models

30th European Symposium on Computer Aided Chemical Engineering/ European Symposium on Computer Aided Chemical Engineering - Amsterdam: Elsevier, 2020; Pierucci, Sauro . - 2020, S. 841-846;

[Symposium: ESCAPE30, May 24-27, 2020, Milan, Italy]

Keßler, Tobias; Kunde, Christian; Linke, Steffen; McBride, Kevin; Sundmacher, Kai; Kienle, Achim

Computer aided molecular design of green solvents for the hydroformylation of long-chain olefines
30th European Symposium on Computer Aided Chemical Engineering/ European Symposium on Computer Aided Chemical Engineering - Amsterdam: Elsevier, 2020; Pierucci, Sauro . - 2020, S. 745-750;
[Symposium: ESCAPE30, May 24-27, 2020, Milan, Italy]

Matschek, Janine; Gonschorek, Tim; Hanses, Magnus; Elkmann, Norbert; Ortmeier, Frank; Findeisen, Rolf

Learning references with Gaussian processes in model predictive control applied to robot assisted surgery
European Control Conference 2020/ European Control Conference - Piscataway, NJ: IEEE, 2020; Pogromsky, Alexander . - 2020, S. 362-367;
[Konferenz: 2020 European Control Conference, ECC, Saint Petersburg, Russia, 12-15 May 2020]

Neugebauer, Christoph; Diez, Eugen; Mielke, Lisa; Palis, Stefan; Bück, Andreas; Tsotsas, Evangelos; Kienle, Achim; Heinrich, Stefan

Dynamics of spray granulation in continuously operated horizontal fluidized beds
Dynamic flowsheet simulation of solids processes - Cham: Springer Nature Switzerland AG 2020, 2020; Heinrich, Stefan . - 2020, S. 67-107;
[Chapter 3]

Pishkari, Rojjar; Kienle, Achim

Fast and accurate simulation of simulated moving bed chromatographic processes with linear adsorption isotherms
30th European Symposium on Computer Aided Chemical Engineering/ European Symposium on Computer Aided Chemical Engineering - Amsterdam: Elsevier, 2020; Pierucci, Sauro . - 2020, S. 487-492;
[Symposium: ESCAPE30, May 24-27, 2020, Milan, Italy]

Potluri, Sasanka; Ahmed, Shamim; Diedrich, Christian

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Development and Analysis of Deep Learning Architectures - Cham: Springer, 2020; Pedrycz, Witold . - 2020, S. 197-222 - (Studies in computational intelligence; 867);

Seidel, Carsten; Kienle, Achim

Methanol kinetics from optimal dynamic experiments
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[Symposium: ESCAPE30, May 24-27, 2020, Milan, Italy]

Zipper, Holger; Diedrich, Christian

Effiziente Synchronisation einer industriellen Anlage und deren betriebsbegleitender Simulation
Entwurf komplexer Automatisierungssysteme - EKA 2020 : Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : 16. Fachtagung mit Spezial-Workshop "Modellierungsansätze für eine semantische Interoperabilität in industriellen Systemen" : 2020 [in Magdeburg]: [Abstracts]: EKA 2020 : Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : 16. Fachtagung mit Spezial-Workshop "Modellierungsansätze für eine semantische Interoperabilität in industriellen Systemen" : 2020 [in Magdeburg]: [Abstracts]- Magdeburg: ifak - Institut für Automation und Kommunikation e.V., 2020 . - 2020, insges. 10 S.;
[Tagung: 16. Fachtagung EKA 2020]

HERAUSGEBERSCHAFTEN

Jumar, Ulrich; Diedrich, Christian

16. Fachtagung EKA 2020 - Entwurf Komplexer Automatisierungssysteme: Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen

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Kongress: Fachtagung "Entwurf Komplexer Automatisierungssysteme" 16 (Magdeburg : 2020.05.05-06.) [Veranstaltungsabsage aufgrund der Corona-Pandemie; Der USB-Stick enthält die vollständigen Beitragsmanuskripte.; Mit Spezial-Workshop "Modellierungsansätze für eine semantische Interoperabilität in industriellen Systemen"; Literaturangaben]

DISSERTATIONEN

Lindhorst, Henning; Kienle, Achim [AkademischeR BetreuerIn]

Modeling and simulation of enzyme controlled metabolic networks using optimization based methods

Magdeburg, 2020, III, 133 Seiten, Diagramme, 30 cm;

[Literaturverzeichnis: Seite 121-129]

Neugebauer, Christoph; Kienle, Achim [AkademischeR BetreuerIn]; Palis, Stefan [AkademischeR BetreuerIn]

Modeling, dynamics and control of continuous fluidized bed layering granulation processes

Magdeburg, 2020, xii, 139 Seiten, Illustrationen, Diagramme, 21 cm;

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Seidel, Heiko; Diedrich, Christian [AkademischeR BetreuerIn]

Workflow-Unterstützung von IT-basierten Engineering-Prozessen in der Bahnautomatisierung

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[Dissertation wurde am 04.12.2019 vorgelegt, ihre Verteidigung erfolgte am 07.05.2020; Literaturverzeichnis: Seite 110-116]

Süß, Sebastian; Diedrich, Christian [AkademischeR BetreuerIn]

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Norderstedt: BoD Books on Demand, 2020, viii, 157 Seiten, Illustrationen, Diagramme, 21 cm, 258 g;

[Literaturverzeichnis: Seite 135-145]

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Dr.-Ing. Thomas Schallschmidt

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Barrera, Pablo Martin; Otero, Marcial; Schallschmidt, Thomas; Bossio, Guillermo; Leidhold, Roberto
Active broken rotor bars diagnosis in induction motor drives
IEEE transactions on industrial electronics: a publication of the IEEE Industrial Electronics Society/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE, 1963 . - 2020;
[Online first]
[Imp.fact.: 7.515]

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Design and operation strategy for multi-use application of battery energy storage in wind farms
Journal of energy storage - Amsterdam [u.a.]: Elsevier, 2015, Vol. 31 (2020), article 101572;
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Optimum management of power and energy in low voltage microgrids using evolutionary algorithms and energy storage
International journal of electrical power & energy systems - Amsterdam [u.a.]: Elsevier Science, 1979, Volume 119 (2020), article 105886;
[Imp.fact.: 4.418]

Pribahnsnik, Florian P.; Bernardoni, Mirko; Nelhiebel, Michael; Mataln, Marianne; Lindemann, Andreas
Piezoelectric properties of GaN-on-Si heterostructures and their implications on lifetime during switching operation

IEEE transactions on power electronics: PE ; a publication of the Power Electronics Council/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE, 1986, Bd. 35.2020, 10, S. 10873-10878;
[Imp.fact.: 6.373]

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[Imp.fact.: 3.745]

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SynRM saliencies evaluation for rotor position estimation
2020 IEEE International Conference on Industrial Technology (ICIT): Buenos Aires, Argentina, 26-28 February, 2020 : proceedings - Piscataway, NJ: IEEE, 2020 . - 2020, S. 223-229;
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Proceedings 2020 International Conference on Electrical Machines (ICEM): 4030 Piscataway, NJ\$IEEE, 2020 . - 2020;
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IEEE PES/IAS PowerAfrica 2020 - [Piscataway, NJ]: IEEE, 2020 . - 2020, insges. 5 S.;

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NICHT BEGUTACHTETE BUCHBEITRÄGE

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20. Dresdener Kreis Elektroenergieversorgung: 20 bis 21. März 2018 in Magdeburg - Hannover: Leibniz Universität Hannover, 2020; Hofmann, Lutz . - 2020, S. 35-40;

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1. LEITUNG

Prof. Dr.-Ing. Thilo Pionteck (Geschäftsführender Leiter)
Prof. Dr.-Ing. Vadim Issakov
Prof. Dr.-Ing. Abbas Omar (seit 1.4.2020 im Ruhestand)
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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1. LEITUNG

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Prof. Dr.-Ing. Ralf Vick
Dr.-Ing. Mathias Magdowski

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1. LEITUNG

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

2. VERÖFFENTLICHUNGEN

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