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Bortz, Michael

Aus anderen Branchen lernen: Beispiele für den industriellen Nutzen von Digitalisierungsansätzen

ERWAS - Anwenderworkshop H2Opt „Software zur Anlagenoptimierung bei Trinkwasserversorgung – Ergebnisse der Fördermaßnahme ERWAS, Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V., Dechema, Frankfurt, June

Bortz, Michael

Enhancing the efficiency of flowsheet simulation by surrogate models

Jahrestreffen der ProcessNet-Fachgemeinschaft "Prozess-, Apparate- und Anlagentechnik" PAAT 2018, Köln, November

Bortz, Michael

Experimental Design in a Multi-criteria Optimization Context: An Adaptive Scheme

9th Vienna International Conference on Mathematical Modelling MathMod 2018, Wien, February

Bortz, Michael

Flowsheet simulation and optimization supported by machine learning methods

ProcessNet-Jahrestagung, Aachen, September

Bortz, Michael

From Data to Models, from Models to Data - a Mathematical Perspective

Summerschool für Reaktionstechnik und Katalytik, Dechema-Haus, Frankfurt, August

Bortz, Michael

Grey Box: Integration von Anwendungswissen in Lernverfahren

Fraunhofer-Symposium »Netzwert« 2018, München, February

Bortz, Michael

Supporting Flowsheet Simulation by Machine Learning

International Workshop: "Mathematical Methods in Process Engineering: Digitization in the Chemical Industry", Kaiserslautern, September

Bortz, Michael; Weiß, Horst

Digital Methods in Product Development at BASF

Pro3-Seminar „Digital Methods in Product and Process Development“, Kompetenznetz Verfahrenstechnik Pro3 e.V., Kaiserslautern, April

Burger, Michael

Bayesian Road Roughness Estimation

5th European Conference on Computational Optimization - EUCCO 2018, Trier, September

Burger, Michael

Digitale Umgebungsdaten für die Fahrzeugentwicklung – Entwickeln, Testen und Prüfen von Fahrerassistenzsystemen unter Berücksichtigung realistischer Nutzungsszenarien

Workshop SCT2018 - Scientific Computing und Verkehr – Die Mobilität der Zukunft, Heidelberg, October

Burger, M.; Carlqvist, C.; Ekevid, T.; Steidel, S.; Weber, D.

Multiphysics Simulation of Construction Equipment

Commercial Vehicle Technology, Kaiserslautern, March

Burger, Michael; Speckert, Michael
Modellierung von Straßenunebenheiten als Anregung von Fahrzeugen

DVM Fortbildungsseminar 'Zuverlässigkeit und Probabilistik', Ingolstadt, November

Burger, Michael; Speckert, Michael
VMC® Geo Referenced Data for Vehicle Development

Kick-Off Workshop ASAM Open-SCENARIO, Kaiserslautern, November

Burger, M.; Speckert, M.; Dreßler, K.
Nutzungsspezifische Vorhersage von Beanspruchung und Energieverbrauch

SIMVEC – Simulation und Erprobung in der Fahrzeugentwicklung, Baden-Baden, November

Burger, Michael; Speckert, Michael; Müller, Roland; Weiberle, Daniel
Model-Based Identification Of Road Profiles and Road Roughness Indicators Using Vehicle Measurements
 Commercial Vehicle Technology, Kaiserslautern, March

Calabrese, F.; Bäcker, M.; Gallrein, A.
Advanced methods for tire handling analysis, characterization and parameterization with CDTire
 Tire technology EXPO 2018, Hannover, February

Calabrese, F.; Bäcker, M.; Gallrein, A.
How to handle the brunch of potential tire/wheel sizes in the early vehicle development process
 Symposium SAE BRASIL de Testes e Simulações, Sao Paolo (BR), September

Calabrese, Francesco; Dusini, Luca; Bäcker, Manfred; Gallrein, Axel
Managing the variety of potential tire / wheel sizes in the early vehicle development process
 International Munich Chassis Symposium, München, June; VI-grade Users Conference, Lainate (I), May

Cappel, Caroline
Schnelle cW-Terahertz-Schichtdickenbestimmung mit Hilfe einer GP-GPU
 9. THz Frischlingetreffen, Kaiserslautern, March

Cesarek, Peter; Dörllich, Vanessa; Linn, Joachim; Diebels, Stefan
Modeling of inelastic bending of cables using constitutive laws for cosserat rods
 6th European Conference on Computational Mechanics (ECCM 6); 7th European Conference on Computational Fluid Dynamics (ECFD 7), Glasgow (GB), June

Danielsson, P.-O.; Ekevid, T.; Kumar, M.; Rothmann, T.; Wilhelmsson, M.
Articulated Hauler Load Simulations
 Commercial Vehicle Technology, Kaiserslautern, March

Dobrovolskij, D.; Schladitz, K.
Local 3D Fiber Orientation Analysis for Fiber Reinforced Composite Materials

4th International Congress on 3D Materials Science (3DMS 2018), Helsingør (DK), June

Diez, Franziska
The Evolution of Yield Curves in 2 Factor Hull White Models
 ICA, World Congress of Actuaries, Berlin, June

Diller, Rolf; Hauth, Jan
Modelling and assessment of spectroscopic data by Bayesian estimation methods
 BioComp-Symposium, Klostermühle Alsenz, December

Dobrovolskij, Dascha
Simulation of Ultrasound Scattering Effects in a Polycrystalline Titanium Based on 3D Full-field X-ray Microscopy
 Materials Science and Engineering 2018. Darmstadt, September

Dreßler, K.; Pena Vina, E.; Rothmann, T.
Environmental Data for vehicle engineering - Pointcloud based scenarios
 VI-grade Users Conference, Lainate (I), May

Ecke, N. C.; Höller, J.; Niedermeyer, J.; Klein, P.; Schlarb, A. K.
Simulation hybrider Tribocompounds mittels homogenisierter Materialmodelle
 59. Tribologie-Fachtagung, Göttingen, September

Edelmann, B.; Menstell, P.; Ohser, J.; Osterroth, S.; Steiner, K.
Modeling and simulation of protein transport processes in chromatographic media using experiments and confocal laser scanning microscopy
 ACHEMA, Frankfurt, June

Edelmann, B.; Menstell, P.; Ohser, J.; Osterroth, S.; Schwämmle, A.; Steiner, K.
Modeling and Simulation of Protein Transport Processes in Chromatographic Media
 Mathematical methods in process engineering - digitization in the chemical industry, Kaiserslautern, September

Eifler, Matthias; Hering, Julian; von Freymann, Georg; Seewig, Jörg

3D printing of material measures for areal surface texture
 SPIE Photonics Europe, Strasbourg (F), April

Eimer, M.; Borsche, R.; Siedow, N.
A local time stepping method for district heating networks
 ECMI 2018, Budapest (Ungarn), June

Ellrich, F.; Klier, J.; Weber, S.; Molter, D.; Jonuscheit, J.; von Freymann, G.
Terahertz thickness determination for industrial applications: challenges and solutions
 SPIE Photonics West 2018, San Francisco (USA), January/February

Ellrich, F.; Molter, D.; Jonuscheit, J.; von Freymann, G.
Fiber-coupled THz systems for industrial applications
 SPIE Photonics West 2018, San Francisco (USA), January/February

Ettrich, Norman
High Performance Computing of Seismic Data
 DGMK Workshop "Digital Oil Field, Where are we? Where are we going?", Hannover, November

Fend, Chiara; Moghiseh, Ali; Stephani, Henrike; Weibel, Thomas
Object Detection on Supermarket Shelves with a Deep Network
 European Machine Vision Forum 2018 – EMVA, Bologna (I), September

Fraundorfer, W.; Kuhnert, J.; Pena Vina, E.; Weyh, T.
Auslegung von mobilen Schwimmbrücken und Arbeitsplattformen
 Commercial Vehicle Technology, Kaiserslautern, March

Friederich, Fabian
Millimeter-wave imaging solutions for non-destructive testing
 SPIE Photonics West 2018, San Francisco (USA), January/February

Friederich, Fabian
Non-destructive radome inspection
 8th International Workshop on Terahertz Technology and Applications, Kaiserslautern, March

Friederich, F.; May, K. H.; Baccouche, B.; Matheis, C.; Bauer, M.; Jonuscheit, J.; Moor, M.; Denman, D.; Bramble, J.; Savage, N.

Radome Inspection with Terahertz Waves
 ECNDT 2018, Göteborg (S), June; 10th Internat. Symposium on NDT in Aerospace, Dresden, October

Gospodnetic, Petra
Inspection 4.0–Let's make it agile
 European Machine Vision Association Business Conference, June

Gospodnetic, Petra
Understanding the World Through Images
 UWC, Birkenfeld, January 2019

Gospodnetic, P.; Banesh, D.; Wolfram, P.; Petersen, M.; Hagen, H.; Ahrens, J.; Rauhut, M.
Ocean Current Segmentation at Different Depths and Correlation with Temperature in a MPAS-Ocean Simulation
 IEEE VIS 2018, October

Gospodnetic, P.; Spies, M.; Rauhut, M.
Image based surface microgeometry modeling for complex surfaces
 12th European Conference on Non-Destructive Testing (ECNDT 2018), Göteborg (S), June

Gottschalk, Simon; Burger, Michael
Reinforcement Learning in order to control biomechanical Applications
 ECMI 2018 - The 20th European Conference on Mathematics for Industry, Budapest (H), June

Gramsch, Simone
Maschinelles Lernen in der Textilindustrie
 Hofer Vliesstofftage, Hof, November

Gramsch, Simone
Simulation of spunbond and meltblown processes for filter media production
 Filtech 2018, Köln, March

Gramsch, Simone; Kramer, Stephan
Modellierung und Simulation von Vliesstoffen und Batterien – Physik am Fraunhofer ITWM
 jDPG Berufsvorbereitungssseminar, Mainz, October

Grindel, Ria
MLMC for stochastic delay differential equations in a biochemical setting

European Consortium for Mathematics in Industry (ECMI), Budapest (H), June

Heidgen, M.; Schneider, J.
Optimierung der ambulanten medizinischen Versorgung im ländlichen Raum (HealthFaCT)
GOR-Arbeitsgruppe „Health Care Management“, Augsburg, February

Heller, Till
A combinatorial exchange model for the future electricity market
22nd Workshop on Future Research in Combinatorial Optimization FRICO 2018, Chemnitz, August

Helmling, M.; Ackermann, H.; Jami, N.; Schneider, J.; Küfer, K.-H.
Business Continuity Planning for Supply Chain Disruptions – How to assess the risk of catastrophic supply disruptions in a supply chain: A bi-objective modelling approach
OR 2018: International Conference on Operations Research, Brüssel (B), September

Hering, J.; Eifler, M.; Hofherr, L.; Ziegler, C.; Seewig, J.; von Freymann, G.
Two-photon laser lithography in optical metrology: calibration
SPIE Photonics West 2018, San Francisco (USA), January/February

Hering, J.; Waller, Erik H.; von Freymann, G.
Additive Manufacturing of Three-Dimensional Surfaces
MICOS 2018, Kaiserslautern, March

Hering, J.; Waller, Erik H.; von Freymann, G.
Three-dimensional μ -Printing: An enabling Technology
International Conference on Photo-Excited Processes and Applications, Vilnius (LT), September

Hietel, Dietmar; Andrä, Heiko; Arne, Walter; Steiner, Konrad
Modeling and simulation of glass fiber processes and composites
IGS 2018, Aachen, October

Hietel, D.; Arne, W.; Feßler, R.; Schnebele, J.; Wieland, M.
Fiber-Fluid Interaction: Modeling, Analysis, Simulation and Optimization
GFC 2018, Dornbirn (A), September

Hietel, D.; Iliev, O.; Manvelyan, D.; Mohring, J.; Shklyar, I.; Schmeißer, A.
Charakterisierung der Stochastik in Vliesstoffen und deren Einfluss auf seine funktionalen Eigenschaften
Symposium Textile Filter 2018, Chemnitz, April

Hietel, D.; Iliev, O.; Manvelyan, D.; Mohring, J.; Shklyar, I.; Schmeißer, A.
Study of the influence of the filter media heterogeneity on filter performance
Filtech 2018, Köln, March

Hinderks, Wiegert
A structural Heath-Jarrow-Morton framework for consistent intraday, spot, and futures electricity prices
Commodity and Energy Markets Association Annual Meeting, Rom (I), 2018, June

Hinderks, Wiegert
Pricing German Energiewende products: intraday cap/floor futures
International Ruhr Energy Conference, Essen, September

Hofmann, Tobias
Phase-Field Methods for Deformation Processes in Lithium-Ion Batteries
Promotionsvortrag, Kaiserslautern, January

Hofmann, T.; Zausch, J.; Andrä, H.; Müller, R.
Electro-chemo-mechanical simulation of 3D-microstructures for lithium-ion batteries
15th Symposium on Modeling and Experimental Validation of Electrochemical Energy Devices MODVAL, Aarau (CH), April; European Conference on Computational Mechanics ECCOMAS, Glasgow (GB), June; Physics & Mechanics of Random Media: From Morphology to Material Properties, International Workshop in Honor of Dominique Jeulin, Ile d'Oleron (F), June

Hofmann, T.; Zausch, J.; Latz, A.; Biebl, F.; Glatt, I.; Wagner, C.
Battery analysis with BatteryDict and BEST
GeoDict User-Meeting, Nagoya (J), November

Hohmann, R.; Leithäuser, C.
Shape optimization of liquid polymer distributors
ECMI 2018, Budapest (H), June

Höller, Johannes
Adjusting substance property data in an industrial context
International Workshop: "Mathematical Methods in Process Engineering: Digitization in the Chemical Industry"

Horsky, Roman
Risikomanagement: Modellierung von Versicherungsprodukten
Symposium »Netzwert«, München, February

Iliev, Oleg
ExaDUNE: Flexible PDE Solvers, Numerical Methods and Applications: Toward exascale computation of UQ using MLMC
Invited talk RICAM Colloquium, Linz (A), January

Iliev, O.; Prill, T.; Gavrilenko, P.
Reactive Flows in Porous Media: PoreChem Software Tool
Research seminar Corning, St. Petersburg, November; Kaiserslautern, September

Iliev, Oleg; Prill, Torben; Greiner, Robert; Votsmeier, Martin
Simulation of Filtration in a Catalytic Filter Wall
InterPore, New Orleans (USA), May

Iliev, O.; Prill, T.; Nessler, Katie; Printsypar, G.; Lakdawala, Z.; Greiner, R.; Votsmeier, M.; Mikelic, A.
On pore scale simulation of reactive flow
Invited talk Digital Core Workshop, Qingdao (CHN), July; Workshop Multiscale and Model Reduction Methods, Yakutsk (RUS), August; Digitalization in the chemical industry, Kaiserslautern, September

Iliev, Oleg; Prill, Torben; Printsypar, Galina; Nessler, Katie
Computational modeling of functionalized membranes' performance
Aachen Membrane Kolloquium, Aachen, November

Iliev, Oleg; Vabishchevich, Petr
Computational identification of adsorption and desorption

parameters for pore scale transport in periodic porous media
Multiscale methods and Large-scale Scientific Computing, Moscow (RUS), August

Jonuscheit, J.; Weber, S.; Klier, J.; Molter, D.; von Freymann, G.
Berührungslose, robotergestützte Schichtdickenmessung im industriellen Umfeld
DGZFP Jahrestagung, Leipzig, May

Jonuscheit, Joachim
Available Current Instrumentation for THz
European Microwave Week 2018, Madrid (E), September

Jonuscheit, Joachim
Bildgebende Verfahren zur Detektion von Gefahrstoffen
Seminar VS 10.06 Detektion von Explosivstoffen, CCG-Gesellschaft, Pfingstal, November

Jonuscheit, Joachim
Künftige Entwicklungen der Terahertz-Technik zur zerstörungsfreien Prüfung von Verbundmaterialien
DGZFP Seminar Zerstörungsfreie Prüfung an GFK und GFK-Klebeverbindungen, Wittenberge, August

Jonuscheit, Joachim
Schichtdickenmessung im industriellen Umfeld mittels Terahertz-Technik
18. Stuttgarter Branchentreff: Farbe – Lack – Oberfläche, Stuttgart, November

Jonuscheit, Joachim
Terahertz-Aktivitäten am Fraunhofer ITWM
DGZFP-Seminar, Fachausschuss Mikrowellen- und Terahertzverfahren, Würzburg, November

Jonuscheit, Joachim
Terahertz-Technik und Auswertemethoden zur Dickenmessung
220. Sitzung des DGZFP-Arbeitskreises, Stuttgart, February

Jonuscheit, Joachim
Zerstörungsfreie Prüfung keramischer Bauteile mit Terahertz-Messtechnik
Deutsche Keramische Gesellschaft DKG FA 3 "Verfahrenstechnik", Mettlach, May

- Jonuscheit, J.; Klier, J.; Molter, D.; Weber, S.; von Freymann, G.
Contact-free, robot-assisted coating thickness measurement in the industrial environment
ECNDT 2018, Göteborg (S), June
- Jörg, C.; Cherpakova, Z.; Letscher, F.; Dauer, C.; Schulz, J.; Eggert, S.; Fleischhauer, M.; Linden, S.; von Freymann, G.
Waveguides for Quantum Optics: 3D-Micro-Printing and Topological Insulators
Universidad Autonoma de Barcelona, Barcelona (E) Juni
- Jörg, C.; Dauer, C.; Letscher, F.; Fleischhauer, M.; Eggert, S.; von Freymann, G.
Transitions between States in Topological Waveguide Systems by Local Time-Periodic Driving
Nanop 2018, Rom (I), October
- Jörg, C.; Letscher, F.; Dauer, C.; Pelster, A.; Eggert, S.; Fleischhauer, M.; von Freymann, G.
Driving Transitions between States in Topological Systems
DPG Frühjahrstagung 2018, Erlangen, March
- Jouahri, Oumar
Konzeptionierung, Aufbau und Programmierung eines vollautomatisierten Charakterisierungsaufbaus für Terahertz-Antennenmodule
9. THz Frischlingetreffen, Kaiserslautern, March
- Kabel, Matthias
Poroelastic behavior of rocks using Digital Rock Physics
Computational Techniques and Applications Conference (CTAC 2018), Newcastle (AUS)
- Kabel, Matthias; Frizen, Felix
Automatic derivation of material laws for simulating structural components
MOR Seminar, Stuttgart, February
- Kabel, M.; Kirsch, R.; Osterroth, S.; Rief, S.
A Two-Scale Approach for the Computation of Flow through Pleated Filters based on Real Image Data
FILTECH 2018 Conference, Köln, March
- Kabel, M.; Kirsch, R.; Osterroth, S.; Rief, S.; Staub, S.
A two-scale simulation approach for predicting the lifetime of pleated filters with embossing
GeoDict User Meeting 2018, Kaiserslautern, September
- Kabel, M.; Kirsch, R.; Osterroth, S.; Rief, S.; Staub, S.
Including filter media heterogeneities in the simulation of filtration processes
AFS Filtcon, Prior Lake (US), April
- Kabel, M.; Kirsch, R.; Osterroth, S.; Rief, S.; Staub, S.
Simulation of flow and filtration characteristics in consideration of production-related media deformation
European Conf. on Fluid Particle Separation FPS 2018, Lyon (F), October
- Kabel, M.; Kirsch, R.; Osterroth, S.; Rief, S.; Staub, S.
Simulationsgestützte Standzeitanalyse von gefalteten Filtermedien mit inhomogener Materialverteilung
Jahrestreffen der ProcessNet-Fachgruppe „Mechanische Flüssigabtrennung“, Merseburg, February
- Kabel, M.; Köbler, J.; Fritzen, F.
Fast and Memory Efficient Two-Scale Simulations of Components by Combining Reduced Order Models and Composite Voxel on the Micro-Scale
6th European Conference on Computational Mechanics (ECCM 6), Glasgow (GB), June
- Keil, Andreas; Friederich, Fabian
Quantification of Liquids with Terahertz Waves
43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW THz-2018), Nagoya (J), September
- Keil, A.; Schreiner, N. S.; Friederich, F.
Thickness Measurements with Multistatic Sparse Arrays
43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW THz-2018), Nagoya (J), September
- Keuper, Janis
Introduction to Deep Learning
Gastvortrag Fraunhofer IIS, February
- Keuper, Janis
Large Scale ML on HPC Systems
Gastvortrag TU Dresden, May
- Kirsch, R.; Osterroth, S.; Rief, S.
Build-up of internal cake in layered filtering media
Filtech, Köln, March
- Kirsch, R.; Osterroth, S.; Rief, S.
Uniformity of media face velocity as an additional criterion for the computer-aided rating of pleated filters
FPS, Lyon (F), October
- Klier, J.; Kharik, D.; Zwetow, W.; Gundacker, D.; Weber, S.; Molter, D.; Ellrich, F.; Jonuscheit, J.; von Freymann, G.
Four-channel terahertz time-domain spectroscopy system for industrial pipe inspection
43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW THz-2018), Nagoya (J), September
- Köbler, J.; Kabel, M.; Andrä, H.; Müller, R.; Schneider, M.; Staub, S.; Welschinger, F.
Efficient multiscale methods for viscoelasticity and fatigue of short fiber reinforced polymers
10th European Solid Mechanics Conference ESMC, Bologna (I), July
- Köbler, J.; Welschinger, F.; Schneider, M.; Andrä, H.; Kabel, M.; Müller, R.
Efficient multiscale methods for computing the effective viscoelastic and fatigue response of short fiber reinforced thermoplastics
EUROMECH Colloquium 597 on Reduced Order Modeling in Mechanics of Materials, Bad Herrenalb, August
- Kolano, M.; Boidol, O.; Molter, D.; Weber, S.; von Freymann, G.
Single-laser polarization-controlled optical sampling system for THz-TDS
43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW THz-2018), Nagoya (J), September
- Korn, Ralf
European Actuarial Journal
ICA, World Congress of Actuaries, Berlin, June
- Korn, Ralf
Gemeinsam gegen das Risiko: Geschichte und Prinzipien der Versicherungsmathematik
Tag der Mathematik, Kaiserslautern, June
- Korn, Ralf
Ist Altersvorsorge trotz Nullzins möglich?
Nacht, die Wissen schafft, Kaiserslautern, April
- Korn, Ralf
Optimal Portfolios with Stress Scenarios: A Worst-Case Scenario Approach
ICA, World Congress of Actuaries, Berlin, June
- Korn, Ralf
Yield Curves, Measure Transformation, and Applications in Chance-Risk Classification of German Pension Products
Hannover-Zürich-Workshop on Insurance Mathematics, Hannover, November
- Kranz, Robert
Implementierung einer positionsmessenden Sensorik in ein Terahertz-Messsystem für die bildgebende Terahertz-Prüfung
9. THz Frischlingetreffen, Kaiserslautern, March
- Krieg, Helene; Schwientek, Jan; Novak, Dimitri; Küfer, Karl-Heinz
Optimal pump series design via semi-infinite programming
16. EUROPT Workshop on Advances in Continuous Optimization 2018, Almeria (E) Juli
- Krüger, Jens
Cloud Nutzung am Fraunhofer ITWM – Praktische Erfahrungen: Nutzen – Spot Markt und Kosten – Sicherheit Verbindung von On Premise und Cloud Computing am SafecLOUDS.eu Beispiel
Arbeitskreis Strategie und Organisation des ZKI-Vereins, Berlin, November
- Küfer, Karl-Heinz
Optimizing yields in gemstone cutting - mathematics as a driver of process innovation
GOR Tagung Arbeitsgruppe Optimierung, Regensburg, April

Küfer, Karl-Heinz; Bortz Michael
Industrial Applications of Multi-criteria Decision Support Systems
GOR Tagung Entscheidungstheorie und Praxis, Kaiserslautern, March;
Dagstuhl-Seminar „Personalized Multiobjective Optimization: An Analytics Perspective“, Wadern, January

Kuhnert, Jörg
MESHPFREE simulations in fluid and continuum mechanics
NAFEMS CFD, Wiesbaden, November

Kuhnert, Jörg
MESHPFREE simulations of fluid structure interaction
NAFEMS DACH, Bamberg, May

Kurnatowski, M. von; Meier, J.; Thonemann, N.; Babutzka, J.; Bortz, M.
Modeling, multi-criteria optimization and life cycle assessment in electrochemical process engineering
PAAT, Jahrestagung Process-Net-Fachgemeinschaft „Prozess-, Apparate- und Anlagentechnik, Köln, November

Küstters, Ferdinand
Switch observability for differential-algebraic systems
KI-Regelungstechnik, Kaiserslautern, March 2018

Labus, Peter
HP-DLF: Scalable Deep Learning for Supercomputers
High Performance Computing for AI (Workshop at Leibniz-Rechenzentrum), München, October

Laudage, Christian
Severity Modeling of Extreme Insurance Claims
European Actuarial Journal Conference, Leuven (B), September

Leithäuser, C.; Siedow, N.; Hübner, F.; Bazrafshan, B.; Vogl, T. J.
Experimental Validation of a Mathematical Model for Laser-Induced Thermo-therapy
ECMI 2018, Budapest (H), June

Leithäuser, Neele
Multikriterielle Optimierung und Entscheidungsunterstützung in der Erntekettenlogistik
EULOG 2018: Fachtagung Entscheidungsunterstützung in der Logistik, Linz (A) October

Leoff, Elisabeth
Particle Filtering for Truncated Noise Densities
International Conference on Computational and Financial Econometrics, Pisa (I), December

Linn, Joachim
Dynamical Simulation of Human Motion in Car Assembly by Optimal Control of a Biomechanical Digital Human Multibody Model
Human Modeling and Simulation in Automotive Engineering, Berlin, October

Meier, C.; Durville, D.; Bröls, O.; Gerstmayr, J.; Linn, J.
Modeling and Discretization Approaches for Slender Continua and their Interaction
6th European Conference on Computational Mechanics (ECCM 6); 7th European Conference on Computational Fluid Dynamics (ECFD 7), Glasgow (GB), June

Mohammadzadeh, Shiva
Design of a Quasi-Optical Terahertz Line-Scanner
9. THz Frischlingtreffen, Kaiserslautern, March

Mohring, J.; Heidenbluth, M.; Brüggeman, T.
Effizienter FW-Betrieb durch dynamische Netzsimulation
AGFW-Symposium Zukunft Fernwärme, Kaiserslautern, March

Molter, Daniel
Berührungslose Schichtdickenmessung im industriellen Umfeld mit Terahertz-Messtechnik
11. Fraunhofer Vision-Technologie-tag, Jena, October

Molter, Daniel
Vibration compensation for layer thickness measurements in industrial environments
8th International Workshop on Terahertz Technology and Applications, Kaiserslautern, March

Molter, D.; Weber, S.; Pfeiffer, T.; Klier, J.; Bachtler, S.; Ellrich, F.; Jonuscheit, J.; von Freymann, G.
Interferometry-aided terahertz time-domain spectroscopy for robust measurements in reflection

43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW THz-2018), Nagoya (J), September

Müller, O.; Moghiseh, A.; Stephani, H.; Rottmayer, N.; Huang, F.
Application of Deep Learning for Crack Segmentation on Concrete Surface
Forum Bildverarbeitung, Karlsruhe KIT und Fraunhofer IOSB, November

Muttray, A.; Reinhard, R.; Rutrecht, H.; Hengstenberg, P.; Tutulmaz, E.; Geißler, B.; Hecht, H.
Simulatorkrankheit: Diagnostik, Auswirkungen auf das Leistungsvermögen und Gegenmaßnahmen bei schlafmedizinischen Untersuchungen
Wissenschaftliches Symposium „Fahrsimulation in der Schlafmedizin – ein Update für Forschung und Praxis“, 26. Jahrestagung der Deutschen Gesellschaft für Schlaforschung und Schlafmedizin (DGSM), Nürnberg, October

Muttray, A.; Reinhard, R.; Rutrecht, H.; Hengstenberg, P.; Tutulmaz, E.; Geißler, B.; Hecht, H.
Zur Wirkung von Simulatorkrankheit auf die Reaktionszeit bei PKW-Fahrsimulationen
58. Wissenschaftliche Jahrestagung 2018 der deutschen Gesellschaft für Arbeitsmedizin und Umweltmedizin e.V. (DGAUM), München, March

Nowak, Dimitri
Multicriteria optimization in the water distribution sector
OR 2018: International Conference on Operations Research, Brüssel (B), September; International Workshop: “Mathematical Methods in Process Engineering: Digitization in the Chemical Industry”

Nowak, D.; Krieg, H.; Bortz, M.
Surrogate Models for the Simulation of Complex Water Supply Networks
CCWI-WDSA 2018, Kingston, Ontario (CDN), July

Obentheuer, Marius; Roller, Michael; Björkenstam, Staffan; Berns, Karsten; Linn, Joachim

Comparison of different actuation modes of a biomechanical human arm model in an optimal control framework
Internat. Conference on Multibody System Dynamics, Lissabon (P), June

Ohser, Joachim; Schladitz, Katja
Mikrostrukturanalyse anhand von 3D-Bilddaten
68. Bildverarbeitungsforum, 3D+ Bildanalyse und -visualisierung, Heidelberg, March

Pena Vina, E.; Kleer, M.; Dreßler, K.
Virtual validation of autonomous vehicles in a 3D Pointcloud
SIMVEC – Simulation und Erprobung in der Fahrzeugentwicklung, Baden-Baden, November

Pfreundt Franz-Josef
Memory Driven Computing
HPC Summit Ljubljana (SLO)

Pfreundt, Franz-Josef
BeeGFS & BeeOND – Use Case Examples & Mapping Capabilities to Customer Requirements
HP CAST 30, Frankfurt, June

Pfreundt, Franz-Josef
BeeGFS & BeeOND – Use Cases and Examples
HP CAST 31, Dallas, November

Pfreundt, Franz-Josef
Deep Learning on HPC Systems
HPC Statustagung, October

Phutane, U.; Roller, M.; Björkenstam, S.; Leyendecker, S.
Investigating human thumb models via their range of motion volumes
GAMM, Wien (A), January

Phutane, U.; Roller, M.; Leyendecker, S.
Optimal control simulations of two finger grasping
GAMM, Wien (A), February

Rahn, Mirko
A directory/cache for leveraging the efficient use of distributed memory by task-based runtime systems
EASC2018, Edinburgh, April 2018

Rahn, Mirko
Abstract memory for task based systems – Attempts, limitations, learnings

Intertwine Exascale Application Workshop, Edinburgh, April

Rahn, Mirko
GASPI – Scaling in Dynamic Environments
SIAM PP18, Tokyo (J), March

Rein, Markus; Mohring, Jan
Stability preserving model order reduction for district heating networks
ECMI 2018, Budapest (H), June

Reinhard, René; Faust-Christmann, Corinna; Lachmann, Thomas
Preconditions for virtual reality avatar effects on real life behavior
51st Conference of the German Society for Psychology (DGPs), Frankfurt a. M., September

Reinhard, R.; Kleer, M.; Dreßler, K.
Effects of Individual Reactions to Driving Simulators on Emergency Braking Reaction Times
DSC, Antibes (F), September

Reinhard, R.; Kleer, M.; Dreßler, K.
The role of individual reactions to driving simulators in the design of simulator studies
4th Symposium Driving Simulation SDS, Kaiserslautern, November

Roldan, D.; Godehardt, M.; Höhn, S.; Redenbach, C.; Schladitz, K.
Reconstruction of porous structures from FIB-SEM: influence of image resolution
Materials Science and Engineering 2018, Darmstadt, September

Rösch, Ronald
Blick über den Tellerrand der klassischen Oberflächeninspektion
Seminar Inspektion und Charakterisierung von Oberflächen mit Bildverarbeitung, Karlsruhe, December

Rösch, Ronald
Innovative Verfahren zur Inspektion von industriellen Oberflächen
11. Fraunhofer Vision Technologietag, Jena, October

Rotaru, Tiberiu
Application Example Running on Top of GPI-Space Integrating D/C
Intertwine Exascale Application Workshop, Edinburgh (GB), April

Rothammer, M.; Zollfrank, C.; Heep, M.-C.; von Freymann, G.
A Cellulose-Based Photoresist for Direct Laser Writing
Materials Science & Engineering, MSE, Darmstadt, September

Sandmann, K.; Leyendecker, T.; Burger, M.; Speckert, M.
Ableitung von feldrelevanten Lastkollektiven mittels Stochastischer Verkehrssimulation
DVM – Effiziente Auslegung und Absicherung in der Betriebsfestigkeit, Stuttgart, September

Sarishvili, Alex
Maschinelles Lernen für die Charakterisierung und Visualisierung der Mehrkanal-EEG-Signale frühgeborenen Kinder
Tagung rlp_vernetzt ERLEBNIS KI, Kaiserslautern, August

Scherpelz, M.; Plieske, M.; Gottwald, A.; Halfmann, T.; Weyh, T.
Einsatz von virtuellen Messkampagnen bei der Getriebeentwicklung
Commercial Vehicle Technology, Kaiserslautern, March

Schladitz, K.; Prill, T.; Redenbach, C.; Roldan, D.; Godehardt, M.; Höhn, S.; Kühnert, J.-T.
Multi-scale analysis, modelling, and simulation of a nano-porous membrane
Physics and mechanics of random structures: from morphology to material properties, International workshop in honor of Dominique Jeulin, Île d'Oléron (F), June

Schneider, Fabio; Linn, Joachim
Simulation-based load data analysis for cables and hoses in vehicle assembling and operation
Commercial Vehicle Technology, Kaiserslautern, March

Schneider, F.; Linn, J.; Dreßler, K.
Virtual assembly of slender flexible structures in automotive engineering
Workshop on "Math for the Digital Factory", Limerick (IRL), March

Schneider, F.; Bilger, F.; Linn, J.; Dreßler, K.
Digitale Absicherung und simulationsbasierte Lastdaten

dynamisch beanspruchter Hochvoltleitungen
SIMVEC - Simulation und Erprobung in der Fahrzeugentwicklung, Baden-Baden, November

Schneider, Johanna
HealthFaCT: Optimization of medical care in rural environments
IBOSS-ECMath Workshop, Berlin, October

Schneider, Johanna
Simulationgestützte Standortoptimierung am Beispiel der Rettungswache Nierstein
GOR Tagung AG "Health Care Management", Augsburg, February

Schneider, J.; Schröder, M.
Simulation-based location optimization of ambulance stations
OR 2018: International Conference on Operations Research, Brüssel (B), September

Schreiner, Nina
High-resolution FM cW Millimeter-Wave and terahertz thickness Measurements
9. THz Frischlingtreffen, Kaiserslautern, March

Schreiner, N.; Sauer-Greff, W.; Urbansky, R.; Friederich, F.
Multilayer Thickness Measurements Below the Rayleigh Limit Using FMCW Millimeter and Terahertz Waves
Kleinheubacher Tagung, Miltenberg, September

Schreiner, N.; Sauer-Graff, W.; Urbansky, R.; Friederich, F.
Multilayer thickness inspection with millimeter-waves
SPIE Photonics West 2018, San Francisco (USA), January/February

Schreiner, N.; Sauer-Graff, W.; Urbansky, R.; Friederich, F.
All-electronic High-resolution Terahertz Thickness Measurements
43rd International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW THz-2018), Nagoya (J), September

Schröder, M.; Schneider, J.
Simulationsgestützte Optimierung von Rettungswachenstrukturen

33. Notfallmedizinische Jahrestagung der agswm, Baden-Baden, March

Schwientek, Jan
Optimization of Distillation Sequences
Internat: Workshop: "Mathematical Methods in Process Engineering: Digitization in the Chemical Industry"

Seidel, Tobias
Wie trifft man Entscheidungen, wenn man gar nicht weiß, was man will?
Fraunhofer Talent Take Off – Vernetzen, Femtec, Berlin, May

Siedow, N.; Leithäuser, C.
Mathematical Modeling for Laser-Induced Thermotherapy in Liver Tissue
ECMI 2018, Budapest (H), June

Siedow, N.; Leithäuser, C.; Hübner, F.; Bazrafshan, B.; Vogl, T. J.
MR Thermometrie und Simulation bei ablativen Verfahren
19. Frankfurter Interdisziplinäres Symposium für Innovative Diagnostik und Therapie, Frankfurt/Main, September

Speckert, M.; Lübke, M.; Wagner, B.; Anstötz, T.; Haupt, C.
Representative Road Selection and Route Planning for Commercial Vehicle Development
Commercial Vehicle Technology, Kaiserslautern, March

Staub, Sarah; Andrä, Heiko; Orlik, Julia; Steiner, Konrad
Simulative Charakterisierung technischer Textilien – Anwendungspotenziale für Smart Textiles und Drucktechnologien
Digitaldruck zur Funktionalisierung textiler Materialien, Bayern Innovativ, Nürnberg, November

Staub, S.; Andrä, H.; Rief, S.
Microstructural modeling and simulation of heat transfer in wood fiber based insulating materials
International Conference on Porous Media, New Orleans (USA), May

Staub, S.; Orlik, J.; Andrä, H.
Computational Homogenization for Embossing of Thin Fibrous Structures based on FEM-FFT Coupling

World Congress of Computational Mechanics, New York (USA), July

Straßel, Dominik; Keuper, Janis
Carme – An Open Source Framework for Multi-User, Interactive Machine Learning on Distributed GPU-Systems
ISC High Performance, Frankfurt, June; High Performance Computing for AI (Workshop at Leibniz-Rechenzentrum), München, October

Suchde, Pratik
A Meshfree Generalized Finite Difference Method for Surface PDEs
7th Conference on Finite Difference Methods: Theory and Applications, Lozenetz (BG), June; 13th World Congress on Computational Mechanics (WCCM2018), New York (USA), July

Suchde, Pratik
Conservation and Accuracy in Meshfree Generalized Finite Difference Methods
Verteidigung Promotion, Kaiserslautern, February

Suchde, Pratik
Meshfree Methods for Fluid Flows and Surfaces.
University of Luxembourg, September

Teichert, K.; Süß, P.; Walczak, M.
Targeted multi-criteria optimization in IMRT/VMAT planning using knowledge based model creation
EURO 2018, Valencia (E), July

Telatar, E.; Reinhard, R.; Humayoun, S.; Ebert, A.; Lachmann, T.
Comparison of Object Perception in Head Mounted Display and in Desktop Monitor for Congruent and Incongruent Environments
60. Tagung experimentell arbeitender Psychologen Teap

Theis, Alexander
Design and optimization of an FMCW Terahertz system for thickness measurements and imaging applications
9. THz Frischlingetreffen, Kaiserslautern, March

Vogel, M.; Chumak, A.V.; Aßmann, R.; Waller, E.H.; Langner, Vasychuka, P.; Hillebrands, B.; von Freymann, G.

Spin-wave control in optically induced thermal gradients
Core-to-Core, Kaiserslautern, May; Nano-Magnonics, Kaiserslautern, February

von Freymann, Georg
3D µ-printing: An enabling technology
Technion, physics colloquium, Haifa (ISR), April

von Freymann, Georg
3D printed photonic quantum simulators
SPIE Photonics Europe, Strasbourg (F), April

von Freymann, Georg
Terahertz Applications
P&G Ignite Days, Kronberg, January

von Freymann, Georg
Wave-transport in optically induced materials
MRS Spring Meeting, Phoenix (USA), April

Wagner, Andreas
Chancen-Risiko-Klassifizierung von Altersvorsorgetarifen
Versicherungsforum, Köln, March

Wagner, Andreas; Oktoviany, Prilly
A stochastic price model for the German secondary balancing power market
Commodity and Energy Markets Association Annual Meeting, Rom, June; 6th Internat. Symposium on Environment and Energy Finance Issues (ISEFI), Paris (F), May; European Consortium for Mathematics in Industry (ECMI), Budapest, June

Walczak, M.; Heese, R.; Seidel, T.; Bortz, M.
Chemical process design aided by grey-box modelling
EURO 2018, Valencia (E), July

Waller, E. H.; von Freymann, G.
Direct laser written metal and metal-composite micro-structures
SPIE Photonics Europe, Straßburg (F), April

Waller, Erik H.; von Freymann, Georg
Metal- and Metal-composite microstructures via direct laser writing

SPIE Photonics West 2018, San Francisco (USA), January/February

Weiss, C.; Ackermann, H.; Hertrich, C.; Heydrich, S.; Krumke, S.
Planning Modern Pharmaceutical Production
OR 2018: International Conference on Operations Research, Brüssel (B), September

Wieland, M.; Arne, W.; Feßler, R.; Marheineke, N.; Wegener, R.
On Dry Spinning Processes In Airflows
ECMI 2018, Budapest (H), June

Wirsén, Andreas
Mathematische Modellierung in den Lebenswissenschaften: Anwendungsbeispiele aus Medizin und Biotechnologie
9. Biotech-Tag der TH Bingen, Bingen, October

Wortel, Pascal
Robust buffer allocation using a network flow based algorithm
EURO 2018, Valencia (E), July

Wortel, Pascal; Helmling, Michael; Velten, Sebastian; Weiss, Christian
Scheduling with Prefabrications
OR 2018: International Conference on Operations Research, Brüssel (B), September

Zausch, Jochen
Battery models and simulations for computer-aided electrode and cell design
IQPC Conference "Battery Cell Technology for EVs", Berlin, December

Zausch, J.; Hofmann, T.; Latz, A.
Advanced Battery Simulation Cases with the „Battery and Electrochemistry Simulation Tool“ BEST
GeoDict User-Meeting 2018, Kaiserslautern, September

Andrä, Heiko
Kontaktmechanik
University Kaiserslautern, Winter term 2018/19

Andrä, Heiko
Höhere Mathematik in der Anwendung
DHBW CAS, Summer term 2018 und Winter term 2018/19

Bitsch, Gerd
Professur für Mechatronik, Robotik und CAE-Simulation
University of Applied Sciences Kaiserslautern, Faculty of Engineering

Bortz, Michael
Datenauswertung und Versuchsplanung
University Kaiserslautern, Summer term 2018

Bortz, Michael
Modellierung, Simulation und Optimierung in der Verfahrenstechnik
University Kaiserslautern, Winter term 2018/19

Burger, Michael
Optimal Control of ODEs and DAEs
University Mannheim, Winter term 2018/19

Dreßler, Klaus
Durability Load Data Analysis
University Kaiserslautern, Summer term 2018

Friederich, Fabian
Millimeterwellen und Terahertz Technologien
University Kaiserslautern, Summer term 2018, Winter term 2018/19

Kabel, Matthias
Analysis 1 für Wirtschaftsingenieure
University of Applied Sciences Kaiserslautern, Winter term 2018

Kabel, Matthias
Analysis 2
University of Applied Sciences Kaiserslautern, Summer term 2018

Kleer, Michael
Robotik 1
University of Applied Sciences Kaiserslautern, Winter term 2017/18, Summer term 2018

PARTICIPATION IN FAIRS AND CONFERENCES

Korn, Ralf
**Professur für Stochastische
Steuerung und Finanzmathe-
matik**
University Kaiserslautern, Dept. of
Mathematics

Küfer, Karl-Heinz
Theory of Scheduling Problems
University Kaiserslautern, Summer
term 2018

Küfer, Karl-Heinz
Probability and Algorithms
University Kaiserslautern, Winter
term 2018/19

Prätzel-Wolters, Dieter
Professur für Technomathematik
University Kaiserslautern, Dept. of
Mathematics

Rau, Sebastian
CAE
Baden-Wuerttemberg Cooperative
State University (DHBW) – Center
for Advanced Studies (DHBW CAS),
Summer term 2018

Rau, Sebastian
Simulationstechnik
Baden-Wuerttemberg Cooperative
State University (DHBW), Mann-
heim

Schöbel, Anita
**Professur für Angewandte
Mathematik**
University Kaiserslautern, Dept. of
Mathematics

Staub, Sarah; Andrä, Heiko
**Höhere Festigkeitslehre und
Werkstoffmechanik**
Baden-Wuerttemberg Cooperative
State University (DHBW) – Center
for Advanced Studies (DHBW CAS),
Summer term 2018

Steidel, Stefan
Analysis 3
University of Applied Sciences Kai-
serslautern, Winter term 2018/19

von Freymann, Georg
**Professur für Optische Techno-
logien und Photonik**
University Kaiserslautern, Dept. of
Physics

Aachen Membrane Kolloquium
Aachen, November, Lecture

AC² user meeting
Garching, November, Lecture

ACHEMA 2018
Frankfurt/M., June, Exhibitor, Lecture

AFS-Filtcon
Prior Lake (USA), April, Lecture

AGFW-Symposium
Kaiserslautern, March, Lecture

AnugaFoodTec
Köln, March, Exhibitor

**Auftaktveranstaltung Offene
Digitalisierungsallianz Pfalz**
Kaiserslautern, August, Exhibitor

bonding Firmenkontaktmesse
Kaiserslautern, November, Exhibitor

**carhs – Human Modeling and
Simulation in Automotive Engi-
neering**
Berlin, October, Lecture

chassis.tech plus 2018
München, June, Lecture

Control 2018
Stuttgart, May, Exhibitor

Core-to-Core
Kaiserslautern, May, Lecture

DGZfP Jahrestagung
Leipzig, May, Lecture

**DGZFP Seminar Zerstörungs-
freie Prüfung an GFK und GFK-
Klebeverbindungen**
Wittenberge, August, Lecture

Digital Core Workshop
Qingdao (CHN), July, Lecture

DPG Frühjahrstagungen 2018
Erlangen, Berlin, March, Lecture

**DSC 2018 Driving Simulation
Conference**
Antibes (F), September, Lecture

EAGE 2018
Kopenhagen (DK), June, Exhibitor,
Lecture

ECCOMAS – ECCM – ECFD
Glasgow (GB), June, Lecture

ECMI
Budapest (H), June, Lecture

ECNDT 2018
Göteborg (S), June, Lecture, Poster

**ees – Part of The Smarter E
Europe 2018**
München, June, Exhibitor

21. Energietag Rheinland-Pfalz
Bingen, August, Exhibitor

Energy Storage Europe
Düsseldorf, March, Exhibitor

**EOS Topical Meeting on Waves
in Complex Photonics Media**
Anacapri (I), June, Lecture

**EUCCO – European Conference
on Computational Optimization**
Trier, September, Lecture

**EUROMECH Colloquium 597 on
Reduced Order Modeling in
Mechanics of Materials**
Bad Herrenalb, August, Lecture

**6th European Conference on
Computational Mechanics
ECCOMAS**
Glasgow (GB), June, Lecture

**European Conference on Fluid
Particle Separation FPS 2018**
Lyon (F), October, Lecture

**European Microwave Week
2018**
Madrid (E), September, Lecture

**10th European Solid Mechanics
Conference – ESMC**
Bologna (I), July, Lecture

**European Symposium on Com-
puter Aided Process Engineer-
ing – ESCAPE 28**
Graz (A), June, Lecture

E-World Energy & Water 2018
Essen, February, Exhibitor

**8. Fachtagung Smart Grids und
Virtuelle Kraftwerke**
Wanderath, March, Exhibitor

Filtech
Köln, March, Exhibitor, Lecture,
Poster

FISI 2018
Frankfurt/M., September, Lecture

**Forschung in Kaiserslautern: Ein
Blick in die digitale Zukunft**
Kaiserslautern, October, Exhibitor

**Fraunhofer-Symposium »Netz-
wert« 2018**
München, February, Lecture

**Fraunhofer-Vision Technologie-
tag**
Jena, October, Exhibitor, Lecture

GAMM
München. March, Lecture

GeoDict User Meeting
Kaiserslautern, September, Lecture

Global Fibers Congress
Dornbirn, September, Lecture

**Gordon Research Conference:
Flow and Transport in Perme-
able Media**
Newry (USA), July, Poster

Hannover Messe
Hannover, April, Exhibitor

Hofer Vliesstofftage
Hof, November, Exhibitor, Lecture

HP CAST 30
Frankfurt/M., June, Lecture

HP CAST 31
Dallas (USA), November, Lecture

**ICA – World Congress of Actu-
aries 2018**
Berlin, June, Lecture

**IFAC Symposium on Control in
Transportation Systems**
Savona (I), June, Lecture

**IMSD 2018 – International Con-
ference on Multibody System
Dynamics**
Lissabon (P), June, Lecture

**IMSE – 15th International Con-
ference on Integral Methods in
Science and Engineering**
Brighton (GB), August, Lecture

**3rd International Advanced
School on Magnonics**
Kiew (UA), September, Poster

**43rd International Conference
on Infrared, Millimeter and
Terahertz Waves (IRMMW THz-
2018)**
Nagoya (J), September, Lecture

AWARDS AND PRIZES

International Conference on Photo-Excited Processes and Applications
Vilnius (LT), September, Lecture

International Glass Fiber Symposiums
Aachen, October, Lecture

10th International Symposium on NDT in Aerospace
Dresden, October, Lecture

12th International Topical Meeting on Nuclear Reactor Thermal-Hydraulics, Operation and Safety (NUTHOS-12)
Qingdao (CHN), October, Lecture

8th International Workshop on Terahertz Technology and Applications
Kaiserslautern, March, Exhibitor, Lecture, Poster

5. Internationales Commercial Vehicle Technology Symposium
Kaiserslautern, March, Exhibitor, Lecture

InterPore
New Orleans (USA), May, Lecture

IQPC Conference „Battery Cell Technology for EVs“
Berlin, December, Lecture

ISC High Performance 2018
Frankfurt/M., June, Exhibitor, Lecture

Jahrestreffen der ProcessNet-Fachgruppe „Mechanische Flüssigabtrennung“
Merseburg, February, Lecture

Joint European Magnetic Symposia 2018
Mainz, September, Lecture

Kleinheubacher Tagung
Mittenberg, September, Lecture

MACSI – Math for the Digital Factory
Limerick (IRL), March, Lecture

Mathematical methods in process engineering – Digitization in the chemical industry
Kaiserslautern, September, Lecture

MICOS 2018
Kaiserslautern, March, Lecture

ModVal 2018
Aarau (CH), April, Poster

MRS Spring Meeting
Phoenix (USA), April, Lecture

MSE 2018 – Materials Science & Engineering
Darmstadt, September, Lecture

Multiscale methods and Large-scale Scientific Computing
Moscow (RUS), August, Lecture

Nano-Magnonics Workshop 2018
Diemerstein, February, Lecture, Poster

Nanop 2018
Rom (I), October, Lecture

Okinawa Summerschool
Okinawa (J), September, Poster

P&G Ignite Days
Kronberg, January, Lecture

ProZell Industrietag
Frankfurt/M., September, Poster

rlp_ernetzt Zukunftsmesse — ERLEBNIS KI
Kaiserslautern, August, Exhibitor, Lecture

SAE – Simpósio SAE BRASIL de Testes e Simulações
Sao Paolo (BR), September, Lecture

SC 18 – Supercomputing 2018
Dallas (USA), November, Exhibitor

SDS – 4th Symposium Driving Simulation SDS
Kaiserslautern, November, Exhibitor, Lecture

SEG International Exposition 2018
Anaheim (USA), October, Exhibitor

SES 2018
Madrid, October, Lecture

SIMVEC – Simulation und Erprobung in der Fahrzeugentwicklung
Baden-Baden, November, Exhibitor, Lecture

SPIE Optics&Photonics
San Diego (USA), August, Poster

SPIE Photonics Europe
Straßburg (F), April, Lecture

SPIE Photonics West 2018
San Francisco (USA), January/February, Lecture

15th Symposium on Modeling and Experimental Validation of Electrochemical Energy Devices MODVAL
Aarau (CH), April, Lecture

Symposium Textile Filter
Chemnitz, April, Exhibitor, Lecture

Tag der Mathematik
Kaiserslautern, June, Exhibitor

45. Tagung des DVM-Arbeitskreises Betriebsfestigkeit: Effiziente Auslegung und Absicherung in der Betriebsfestigkeit
Ingolstadt, November, Lecture

Technion physics colloquium
Haifa (IL), April, Lecture

9. Terahertz-Frischlingetreffen
Kaiserslautern, March, Lecture, Poster

Tire Technology Expo 2018
Hannover, February, Lecture

ToCoTronics 2018
Würzburg, July, Poster

11. UK-Europa-China-Konferenz zu Millimeterwellen und Terahertz-Technologien UCMMT
Hangzhou (CHN), September, Lecture

Universidad Autonoma de Barcelona
Barcelona (E) June, Lecture

VI-grade Users Conference
Linate (I) Mai, Exhibitor, Lecture

Workshop Multiscale and Model Reduction Methods
Yakutsk (RUS), August, Lecture

flexstructures GmbH gemeinsam mit Bereich Mathematik für die Fahrzeugentwicklung
SUCCESS 2018 – Technologiepreis
Investitions- und Strukturbank Rheinland-Pfalz (ISB) und Ministerium für Wirtschaft, Verkehr, Landwirtschaft und Weinbau Rheinland-Pfalz
November

Grau, Tobias
Jahrgangsbester im Ausbildungsberuf »Fachinformatiker Fachrichtung Systemintegration«
IHK Pfalz
November

Obermayr, Martin; Dreßler, Klaus; Vrettos, Christos; Eberhard, Peter
Outstanding Paper Award 2018
Computers and Geotechnics
April

Osterroth, Sebastian
Fraunhofer ICT Group Dissertation Award (3. Preis)
Fraunhofer-Verbund IUK-Technologie
September

Schunk, Dominic
Preis für herausragende Leistungen in der Berufsausbildung
IHK Pfalz
November

ThinkParQ GmbH gemeinsam mit BeeGFS-Gruppe des Competence Center High Performance Computing
HPCwire Best HPC Storage Product or Technology Award
anlässlich der Supercomputing 2018 für »Paralleles Dateisystem BeeGFS«
HPCwire
November

von Freymann, Georg
Landespreis für junge Unternehmen in Baden-Württemberg mit der Firma Nanoscribe (1.Preis)
Land Baden-Württemberg
November

von Freymann, Georg; Molter Daniel; Klier, Jens; Weber, Stefan
3. Preis Die Oberfläche: Dickenmessung von Lackschichten mit Terahertz-Strahlung
Fraunhofer IPA
June

OWN EVENTS

AGFW-Symposium Zukunft Fernwärme
Kaiserslautern, March

Career Night mit Fraunhofer _ Escape-Room
Kaiserslautern, December

Festakt zum Auftakt der 2. Phase des Leistungszentrums »Simulations- und Software-basierte Innovation«
Kaiserslautern, April

Gaspi Tutorial
HLRS, July; LRZ, May

GaspiLS Tutorial
AAC Nanjing (CHN), November

Gesundheitstag
Kaiserslautern, August

Herbstschule und Themenkonferenz der Felix-Klein-Akademie
Kaiserslautern, September

International Science Campus for Women
gemeinsam mit Fraunhofer-Zentrale, Kaiserslautern, March

International Workshop »Mathematical Methods in Process Engineering: Digitization in the Chemical Industry«
Fraunhofer ITWM, Kaiserslautern, September

8th International Workshop on Terahertz Technology and Applications
Fraunhofer ITWM, Kaiserslautern, March

5. Internationales Commercial Vehicle Technology Symposium
Kaiserslautern, March

Intertwine Application Workshop
Edinburgh, April

KL-Regelungstechnik: Seminarreihe zu Regelungsthemen, mathematischen Methoden und technische Umsetzung
Kaiserslautern, ganzjährig, einmal im Monat

Mathe-Camp des Felix-Klein-Zentrums für Mathematik
Kaiserslautern, March

Moderne Methoden im Machine Learning/Deep Learning
Diverse Orte, Feb, March, April, July, October, November

Nacht, die Wissen schafft
Kaiserslautern, April

Pro3-Seminar: Digital Methods in Product and Process Development
Kaiserslautern, April

Seminar Einführung in maschinelles Lernen in der Verfahrenstechnik
Kaiserslautern, November

Seminar: Lastdaten- Analyse, Bemessung, Simulation
Kaiserslautern, May

Seminar: Statistische Methoden in der Betriebsfestigkeit
Kaiserslautern, July

Strategisches Netzwerktreffen mit Alumniveranstaltung
Kaiserslautern, December

Symposium »Emma-CC – Digitale Menschmodellierung für ergonomische Arbeitsplätze«
Kaiserslautern, April

Talent School der Felix-Klein-Akademie
Kaiserslautern, August

9. Terahertz-Frischlingetreffen
Fraunhofer ITWM, Kaiserslautern, March

Workshop »Optimal stopping in radiation therapy«
Kaiserslautern, May

Workshop 3D FIB-SEM Imaging & Analysis
Karlsruhe, KIT Campus Nord

Workshop: Abrechnungsbetrug in der ambulanten Pflege – Schadenshochrechnung in »R«
GKV-Spitzenverband, Berlin, November

Workshop: Altersvorsorge Vergleichsrechner
Kaiserslautern, May

Young Researchers Symposium
gemeinsam mit Innovationszentrum Applied System Modeling for Computational Engineering (ASM-4CE) und TU-Nachwuchsring, Kaiserslautern, June

Lecture series »Blick über den Tellerrand«
Fraunhofer-Zentrum Kaiserslautern

Pohl, Walter
Universität Wien
Was können wir von der Völkerwanderung lernen?
January

Amunts, Katrin
Universität Düsseldorf
Gehirn, Computer und Erkenntnis
February

Kreiter, Sebastian
TRON gGmbH Mainz
Neuer Therapieansatz: Impfstoffe gegen Krebs
March

Buhlmann, Britta
Museum Pfalzgalerie Kaiserslautern (mpk)
Physiognomien mit Geschichte
April

Friauf, Eckhard
TU Kaiserslautern
Wie Neurobiologen helfen, unser Gehirn besser zu verstehen
May

Seefried, Elke
Universität Augsburg
Zukünfte. Eine Geschichte der Zukunftsforschung
June

Sonar, Thomas
TU Braunschweig
Der Prioritätsstreit zwischen Leibniz und Newton
August

Preckel, Franzis
Universität Trier
Hochbegabung: Grundlagen und neue Forschungsergebnisse
September

Kusch, Martin
Universität Wien
Ist Wissen relativ? Eine Einleitung in den Relativismus
October

Tetens, Holm
Freie Universität Berlin
Verträglichkeit/Unverträglichkeit von Schöpfungsglaube und Naturwissenschaft
November

Graf von Wallwitz, Georg
München
Wie viel Mathematik braucht die Bildung?
December

Alexandrov, Vassil
(Centro Nacional de Supercom-
putacion, Barcelona (E))
**On Latest Advances in Hybrid
Monte Carlo and quasi-Monte
Carlo Methods for Linear Algebra**
April

Arnold, Martin
(Martin-Luther-University Halle-
Wittenberg)
**Numerik für Mehrkörper-
systeme**
February

Esche, Erik
(Technische Universität Berlin)
**MOSAICmodeling – A Fully
Equation-oriented, Collabora-
tive Tool for Modeling, Simula-
tion, and Optimization in
Chemical Engineering**
November

Griso, Georges
(University Pierre und Marie Curie,
Paris (F))
Decomposition of thin structures
April, November

Grützner, Thomas
(University Ulm)
**Thermische Prozesstechnik@Uni
Ulm: Forschung und Entwick-
lung an einem Uni-Start-Up**
June

Jenkins, David
(University of Newcastle NSW (AUS))
**Understanding coke formation
and quality by analysis of physico-
chemical processes**
October

Khoromskij, Boris
(Max-Planck-Institute for Mathe-
matics in the Sciences, Leipzig)
**Tensor Numerical Methods in
Scientific Computing: Theory
and Practice**
February

Knackstedt, Mark
(Australian National University
Canberra (AUS))
Digital Materials Design
September

Koci, Petr
(University of Chemistry and Tech-
nology, Prag (CZ))

**Multi-Scale Modeling of Cata-
lytic Filters**
September

Leyendecker, Sigrid
(Friedrich-Alexander-University
Erlangen-Nürnberg)
Cosserat rod modeling
June

Leyffer, Sven
(Laboratory for Advanced Numerical
Simulations am Argonne National
Laboratory (USA))
**Derivative-Free Mixed-Integer
Optimization**
October

Maday, Yvon
(University Pierre und Marie Curie,
Paris (F))
**Reduced basis method for con-
vection diffusion equation**
December

Margenov, Svetozar
(University of Sofia (BG))
**Numerical Methods for Frac-
tional Diffusion Problems**
December

Nentwich, Corina
(University Ulm)
**Surrogate modeling for phase
equilibria in process simulation
and optimization**
August

Noroozi, Sooran
(University of Laval, Quebec (CDN))
**Modellierung und Simulation
von String-Modellen**
June – November

Repke, Jens-Uwe
(Technische Universität Berlin)
**Experimental Investigations of
Liquid Film on Micro-Structured
Packing Sheets**
November

Schwartz, Alexandra
(Technische Universität, Darmstadt)
**Mathematische Programme mit
Kardinalitätsrestriktionen und
verwandte Problemklassen**
February

Bartsch, Valeria
■ ISC18: Project Poster Committee
(Member)

Bortz, Michael
■ Komitee für das Tutsing-Sympo-
sium »Trenntechnik 2019« (Digi-
tization Officer)

■ DECHEMA-Arbeitskreis MSO
(Member)

■ Industrie- und Forschungsnetz-
werk zur effektiven Phasenfüh-
rung in Destillations-/ Absorp-
tions-Kolonnen – Nichttrenn-
wirksame Einbauten – EPHA
(Member of the board)

■ DECHEMA-Arbeitsausschuss
»Modellgestützte Prozessent-
wicklung und -optimierung« der
Fachgemeinschaft Prozess-, Ap-
parate- und Anlagentechnik
(Permanent member)

■ DECHEMA-Beirat der Fachge-
meinschaft »Prozess-, Apparat-
und Anlagentechnik« (Perma-
nent member)

■ DECHEMA-Temporärer Arbeits-
kreis »100 % Digital« (Perma-
nent member)

Gerwalin, Elmar
■ Fachgruppe IT-Controlling der
Gesellschaft für Informatik (De-
puty speaker)

Gramsch, Simone
■ »IuK-Reviewboard« des Digitali-
sierungs- und Strategie-Len-
kungskreis der Fraunhofer-Ge-
sellschaft (Member)
■ Wissenschaftlich-Technischer Rat
(WTR) der Fraunhofer-Gesell-
schaft (Member)
■ KOMMS – Kompetenzzentrum
für mathematische Modellierung
in MINT-Projekten in der Schule
(Member of Scientific Board)

Horsky, Roman
■ DAV Arbeitsgruppe Verbraucher-
schutz (Member)

■ EIQFM Arbeitsgruppe Altersvor-
sorge (Member)

Iliev, Oleg
■ InterPore – Event Committee
(Chairman)

■ Journal of Porous Media
(Associate Editor)

■ Editorial Board of Journal of
Mathematical Modeling and
Analysis (Member)

Jonuscheit, Joachim
■ VDI-Fachausschuss »Terahertz-
systeme« (Chairman)

■ VDI-Fachausschuss »Optische
Technologien« (Member)

■ VDI-Fachausschuss »Anwen-
dungsnahe zerstörungsfreie Prü-
fung« (Member)

■ DGZfP-Fachausschuss »Millimeter-
und Terahertzverfahren« (Mem-
ber)

■ Optence (Member)

■ Sensors, Research in
Nondestructive Evaluation, Jour-
nal of Nondestructive Evaluation,
Optics Express, Optical Engineer-
ing (Reviewer)

Kirsch, Ralf
■ Scientific Committee American
Filtration Society (AFS) (Member)

Klein, Peter
■ BMBF-Programm »ERA.Net RUS
Plus - Novel functional nanoma-
terials based on design and mo-
delling« (Reviewer)

■ DFG-Programm »Materials for
Additive Manufacturing – Bewer-
tung der Prozessfähigkeit teilkris-
talliner Thermoelaste im Fused De-
position Modeling mittels eines
mikroskaligen Berechnungsan-
satzes« (Reviewer)

■ Heat and Mass Transfer (Reviewer)

Korn, Ralf

- Deutsche Gesellschaft für Versicherungs- und Finanzmathematik DGVFM (Chair of Executive Board)
- Deutscher Verein für Versicherungswissenschaften DVfVW (Member of the Executive Board)
- European Actuarial Journal (Co-Editor)
- Center for Distance and Independent Learning DISC der TU Kaiserslautern (Member of Scientific Board)
- Steering Committee Forschung TU Kaiserslautern (Member)
- TU Kaiserslautern: Fachbereichsrat Mathematik (Member)

Küfer, Karl-Heinz

- BMBF-Programm »Mathematik für Innovationen in Industrie und Dienstleistungen« (Reviewer)

Kuhnert, Jörg

- ESI Group: Scientific Committee, (Member)

Pfreundt, Franz-Josef

- ETP4 HPC Steering Board (Member)
- Bitkom Arbeitskreis HPC & Quantencomputing (Member of the Executive Board)

Prätzel-Wolters, Dieter

- Applied Mathematics Committee (AMC) of the European Mathematical Society (Member)
- BMBF Strategiekomitee für mathematische Modellierung, Simulation und Optimierung (KoMSO) (Member)
- Felix-Klein-Zentrum für Mathematik (Chairman)
- Forschungszentrum »Center of Mathematical and Computational Modeling CM²« der TU Kaiserslautern (Member)

- Rat für Technologie Rheinland-Pfalz (Member)

- Vorstand »Fraunhofer-Zukunftstiftung« (Deputy Chairman)

- Fraunhofer-Chalmers Research Centre for Industrial Mathematics FCC (Member of the Advisory Boards)

- Fraunhofer-Leistungszentrum »Simulations- und Software-basierte Innovation« (Speaker of the Council)

- GMM-Fachausschuss Dynamik und Regelungstheorie (Member)

- Institut für Verbundwerkstoffe GmbH (Member of the Advisory Board)

- Kompetenzzentrum für mathematische Modellierung in MINT-Projekten in der Schule, KOMMS (Member of the Executive Committee)

Prill, Torben

- German National Chapter of InterPore (Member of the Steering Committee)

Rauhut, Markus

- Deutsche Gesellschaft für Zerstörungsfreie Prüfung e.V. (DGZfP, Member)
- Verband Deutscher Maschinen- und Anlagenbau e.V. (Member)

Rösch, Ronald

- Fraunhofer-Allianz VISION (Member of the Coordination Council)
- Heidelberger Bildverarbeitungsforum (Advisory Board)
- Deutsche Gesellschaft für Materialkunde e.V. (DGM, Member)
- Deutsche Gesellschaft für Zerstörungsfreie Prüfung e.V. (DGZfP, Member)
- DGM-Arbeitskreis Tomographie (Member)

- DGM-Fachausschuss Strahllinien (Member)

- Verband Deutscher Maschinen- und Anlagenbau e.V. (Member)

- European Machine Vision Organisation, EMVA (Member)

Schladitz, Katja

- Leichtbau-Cluster (Member)
- Composite Structures (Reviewer)
- Image Analysis & Stereology (Reviewer)
- Journal of the Science of Food and Agriculture (Reviewer)
- Materials Characterization (Reviewer)
- Methodology and Computing in Applied Probability (Reviewer)

Siedow, Norbert

- DFG (Reviewer)
- ECMI2018 (Reviewer)

von Freymann, Georg

- Kuratorium Photonikzentrum Kaiserslautern (Deputy Chairman)
- Forschungsneubau LASE (Deputy Speaker)
- Deutsche Forschungsgemeinschaft (Reviewer)
- Humboldt-Stiftung (Reviewer)
- Nature, Nature Physics, Nature Communications, Nature Nanotechnology (Reviewer)
- Science, Science Advances (Reviewer)
- Phys. Rev. Lett., Phys. Rev. Appl, Phys. Rev. X (Reviewer)
- Adv. Mater., Adv. Funct. Mater., Adv. Phot. Mater. (Reviewer)

Wagner, Andreas

- Beirat der Produktinformationsstelle Altersvorsorge (Member)

- Beirat der German Data Science Society (GDS) e.V. (Member)

Wirsén, Andreas

- Science & Innovation Alliance Kaiserslautern (SIK), Arbeitskreis Industrie 4.0 (Member)