



FAKULTÄT FÜR
INFORMATIK

Publikationsbericht 2023

Fakultät für Informatik

FAKULTÄT FÜR INFORMATIK

1. LEITUNG

Herr Prof. Dr. rer. pol. habil. Hans-Knud Arndt (Dekan)

Herr Prof. Dr.-Ing. Holger Theisel (Prodekan)

Herr Jun.-Prof. Dr. Christian Lessig (Studiendekan) 10/2022 bis 07/2023

ab 10/2023 Frau Prof. Dr. Sanaz Mostaghim (Studiendekanin)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Dordevic, Milos; Maile, Olga; Das, Anustup; Kundu, Sumit; Haun, Carolin; Baier, Bernhard; Müller, Notger Germar

A comparison of immersive vs. non-immersive virtual reality exercises for the upper limb - a functional near-infrared spectroscopy pilot study with healthy participants

Journal of Clinical Medicine - Basel : MDPI, Bd. 12 (2023), Heft 18, Artikel 5781, insges. 10 S.

[Imp.fact.: 3.9]

Esmaeili, Nazila; Fischerauer, Sophie; Sühn, Thomas; Boese, Axel; Bußhoff, Jana; Datta, Rabi; Illanes, Alfredo

Laparoscopic surgery augmentation through vibro-acoustic sensing of instrument-tissue interactions

Current directions in biomedical engineering - Berlin : De Gruyter, Bd. 9 (2023), Heft 1, S. 630-633

BEGUTACHTETE BUCHBEITRäge

Rother, Anne; Notni, Gunther; Hasse, Alexander; Noack, Benjamin; Beyer, Christian; Reißmann, Jan; Zhang, Chen; Ragni, Marco; Arlinghaus, Julia C.; Spiliopoulou, Myra

Productive teaming under uncertainty: when a human and a machine classify objects together

2023 IEEE International Conference on Advanced Robotics and its Social Impacts (ARSO) , 2023 - [Piscataway, NJ]: IEEE, S. 9-14

HABILITATIONEN

Meuschke, Monique; Preim, Bernhard [AkademischeR BetreuerIn]

Interactive medical visualization for experts and broad audiences

Magdeburg: Universitätsbibliothek, Habilitation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (vi, 307 Seiten, 196,66 MB) ;

[Literaturverzeichnis: Seite 293-307][Literaturverzeichnis: Seite 293-307]

DISSERTATIONEN

Ahmad Alyosef, Afra'a; Nürnberger, Andreas [AkademischeR BetreuerIn]; Tönnies, Klaus [AkademischeR BetreuerIn]

Large scale partial- and near-duplicate image retrieval using spatial information of local features

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (xxiii, 185 Seiten, 16,1 MB) ;

[Literaturverzeichnis: Seite 170-185][Literaturverzeichnis: Seite 170-185]

Alpers, Julian; Hansen, Christian [AkademischeR BetreuerIn]; Speck, Oliver [AkademischeR BetreuerIn]

Improving thermal cancer treatment with 2D to 3D heat map reconstruction

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (xiv, 139 Seiten, 2,34 MB) ;

[Literaturverzeichnis: Seite 125-136][Literaturverzeichnis: Seite 125-136]

Anderer, Simon; Mostaghim, Sanaz [AkademischeR BetreuerIn]

Role mining for industrial-strength ERP systems using evolutionary algorithms

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (xxiv, 287 Seiten, 66,03 MB) ;

[Literaturverzeichnis: Seite 221-229]

Duwe, Kira Isabel; Kuhn, Wingerath [AkademischeR BetreuerIn]

Coupling storage systems for efficient management of self-describing data formats

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (IX, 234 Seiten, 3,82 MB) ;

[Literaturverzeichnis: Seite 185-201]

Ernst, Philipp; Nürnberger, Andreas [AkademischeR BetreuerIn]; Rose, Georg [AkademischeR BetreuerIn]

Prior knowledge for deep learning based interventional cone beam Computed Tomography reconstruction

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (xiii, 151 Seiten, 13,57 MB) ;

[Literaturverzeichnis: Seite 111-124]

Gabele, Mareike; Hansen, Christian [AkademischeR BetreuerIn]

Development and design of software-based methods to promote motivation of patients in cognitive rehabilitation

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (223 Seiten, 25,55 MB) ;

[Literaturverzeichnis: Seite 186-215][Literaturverzeichnis: Seite 186-215]

Gezmu, Andargachew Mekonnen; Nürnberger, Andreas [AkademischeR BetreuerIn]; De Luca, Ernesto William [AkademischeR BetreuerIn]

Subword-based Neural Machine Translation for low-resource fusion languages

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (viii, 118 Seiten, 1,92 MB) ;

[Literaturverzeichnis: Seite 91-118]

Javadi, Mahrokh; Mostaghim, Sanaz [AkademischeR BetreuerIn]

Novel evolutionary approaches for multi-modal multi-objective problems

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (xi, 159 Seiten, 12,19 MB) ;

[Literaturverzeichnis: Seite 134-149][Literaturverzeichnis: Seite 134-149]

Ofner, André; Stober, Sebastian [AkademischeR BetreuerIn]

Modelling canonical computations in brains and machines with the Free Energy Principle

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (xxiii, 162 Seiten, 21,14 MB) ;

[Literaturverzeichnis: Seite 143-162][Literaturverzeichnis: Seite 143-162]

Ristic, Marko; Noack, Benjamin [AkademischeR BetreuerIn]

Data confidentiality for distributed sensor fusion

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (x, 96 Seiten, 1,06 MB) ;

[Literaturverzeichnis: Seite 86-94][Literaturverzeichnis: Seite 86-94]

Schwerdt, Johannes; Nürnberger, Andreas [AkademischeR BetreuerIn]

Information search behavior profiles - analysis of search activities & behavior driven ranking

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (xv, 212 Seiten, 4,85 MB) ;

[Literaturverzeichnis: Seite 203-212]

Vogel, Christian; Elkmann, Norbert [AkademischeR BetreuerIn]; Hansen, Christian [AkademischeR BetreuerIn]

Aktives 2D-Sensorprinzip und Methode zur dynamischen Generierung und funktional-sicheren Überwachung von Schutzräumen bei der Mensch-Roboter-Kooperation

Magdeburg, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, X, 197 Seiten

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[Literaturverzeichnis: Seite 177-194][Literaturverzeichnis: Seite 177-194]

Weise, Jens; Mostaghim, Sanaz [AkademischeR BetreuerIn]

Evolutionary many-objective optimisation for pathfinding problems

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2023, 1 Online-Ressource (XIV, 130, XVII-CXI Seiten, 18,9 MB) ;

[Literaturverzeichnis: Seite XVII-XXXVI]

1. LEITUNG

Prof. Dr. David Hausheer (geschäftsführende Leitung)

Prof. Dr. Michael Kuhn

Prof. Dr.-Ing. Benjamin Noack

Frank Engelhardt, M.Sc.

Dipl.-Inform. Michael Preuß

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Anderer, Simon; Kempster, Tobias; Scheuermann, Bernd; Mostaghim, Sanaz

Dynamic optimization of role concepts for role-based access control using evolutionary algorithms
SN Computer Science - Singapore : Springer Singapore, Bd. 4 (2023), Artikel 416, insges. 17 S.

Bieber, Michelle; Manukjan, Anke; Schleiß, Johannes; Neumann, Fabian; Pohlenz, Philipp

Die Nutzung der Curriculumwerkstatt im Rahmen der Curriculumentwicklung - Leitfaden und Praxisbeispiel
Handbuch Qualität in Studium, Lehre und Forschung - Berlin : DUZ Verlags- und Medienhaus GmbH, Bd. 84 (2023), S. 97-118

Dockhorn, Alexander; Kirst, Martin; Mostaghim, Sanaz; Wiczorek, Martin; Zille, Heiner

Evolutionary algorithm for parameter optimization of context steering agents
IEEE transactions on games - New York, NY : IEEE, Bd. 15 (2023), Heft 1, S. 26-35
[Imp.fact.: 2.3]

Eckert, Dominik; Wicklein, Julia; Herbst, Magdalena; Dwars, Stephan; Ritschl, Ludwig; Kappler, Steffen; Stober, Sebastian

Deep learning based tomosynthesis denoising - a bias investigation across different breast types
Journal of medical imaging - [Bellingham, Wash.]: SPIE, Bd. 10 (2023), Heft 6, Artikel 064003
[Imp.fact.: 2.4]

Ghosh, Suhita; Das, Arnab; Sinha, Yamini; Siegert, Ingo; Polzehl, Tim; Stober, Sebastian

Emo-StarGAN - a semi-supervised any-to-many non-parallel emotion-preserving voice conversion
Interspeech 2023 - International Speech and Communication Association ; Harte, Naomi, S. 2093-2097

Glauer, Martin; Memariani, Adel; Neuhaus, Fabian; Mossakowski, Till; Hastings, Janna

Interpretable ontology extension in chemistry
Semantic web - Amsterdam : IOS Press . - 2023, insges. 22 S.
[Imp.fact.: 3.0]

Hawlitshchek, Anja; Dietrich, André; Zug, Sebastian

Effects of different types of guidance on students' motivation and learning in a remote laboratory in computer science
Computer science education - London : Routledge, Taylor & Francis Group, Bd. 33 (2023), Heft 3, S. 375-399
[Imp.fact.: 2.7]

Jamil, Iffat; Mostaghim, Sanaz; Wachem, Berend; Chéron, Victor; Hausmann, Max

Landscape analysis of multi-objective control of fluidized beds
Proceedings of the Companion Conference on Genetic and Evolutionary Computation - New York, NY, United States : Association for Computing Machinery . - 2023, S. 1950-1955 ;
[Konferenz: Companion Conference on Genetic and Evolutionary Computation, GECCO '23 Companion, Lisbon, Portugal, July 15 - 19, 2023]

Laupichler, Matthias Carl; Aster, Alexandra; Perschewski, Jan-Ole; Schleiss, Johannes

Evaluating AI courses - a valid and reliable instrument for assessing artificial-intelligence learning through comparative self-assessment

Education Sciences - Basel : MDPI, Bd. 13 (2023), Heft 10, Artikel 978, insges. 12 S.

[Imp.fact.: 3.0]

Puzniak, Robert Jerzy; Prabhakaran, Gokulraj T.; McLean, Rebecca J.; Stober, Sebastian; Ather, Sarim; Proudlock, Frank A.; Gottlob, Irene; Dineen, Robert A.; Hoffmann, Michael B.

CHIASM-Net - artificial intelligence-based direct identification of chiasmal abnormalities in albinism

Investigative ophthalmology & visual science - Rockville, Md. : ARVO, Bd. 64 (2023), Heft 13, Artikel 14, insges. 9 S.

[Imp.fact.: 4.4]

Ristic, Marko; Noack, Benjamin; Hanebeck, Uwe D.

Distributed range-only localization that preserves sensor and navigator privacies

IEEE transactions on automatic control / Institute of Electrical and Electronics Engineers - New York, NY : Institute of Electrical and Electronics Engineers, Bd. 68 (2023), Heft 12, S. 7151-7163

[Imp.fact.: 6.8]

Schlagenhauf, Tobias; Lin, Yiwen; Noack, Benjamin

Discriminative feature learning through feature distance loss

Machine vision and applications - Berlin : Springer, Bd. 34 (2023), Heft 2, Artikel 25, insges. 13 S.

[Imp.fact.: 3.3]

Schleiss, Johannes; Laupichler, Matthias Carl; Raupach, Tobias; Stober, Sebastian

AI course design planning framework - developing domain-specific AI education courses

Education Sciences - Basel : MDPI, Bd. 13 (2023), Heft 9, Artikel 954, insges. 18 S.

[Imp.fact.: 3.0]

Weikert, Dominik; Steup, Christoph; Mostaghim, Sanaz

Survey on multi-objective task allocation algorithms for IoT networks

Sensors - Basel : MDPI, Bd. 23 (2023), Heft 1, Artikel 142, insges. 23 S.

[Imp.fact.: 3.9]

Westermann, Johannes; Mayer, Jana; Petereit, Janko; Noack, Benjamin

Receding horizon cost-aware adaptive sampling for environmental monitoring

IEEE control systems letters - New York, NY : IEEE, Bd. 7 (2023), S. 1069-1074

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Schleiss, Johannes; Mah, Dana-Kristin; Böhme, Katrin; Fischer, David; Mesenhöller, Janne; Paaßen, Benjamin; Schork, Sabrina; Schrumpf, Johannes

Künstliche Intelligenz in der Bildung - drei Zukunftsszenarien und fünf Handlungsfelder

Berlin: KI-Campus, 2023, 1 Online-Ressource - (Diskussionspapier)

Schleiss, Johannes; Manukjan, Anke; Bieber, Michelle; Stober, Sebastian

Curriculum workshops as method of interdisciplinary curriculum development - a case study of artificial intelligence in engineering

ResearchGATE - Cambridge, Mass. : ResearchGATE Corp. . - 2023, insges. 3 S.

BEGUTACHTETE BUCHBEITRÄGE

Benecke, Tobias; Antons, Oliver; Mostaghim, Sanaz; Arlinghaus, Julia C.

A coevolution approach for the multi-objective circular supply chain problem

IEEE CAI 2023 / IEEE Conference on Artificial Intelligence , 2023 - Los Alamitos : IEEE, S. 222-223 ;

[Konferenz: 2023 IEEE Conference on Artificial Intelligence, CAI 2023, Santa Clara, Californien, USA, 05-06 June 2023]

Benecke, Tobias; Antons, Oliver; Mostaghim, Sanaz; Arlinghaus, Julia C.

A generalized circular supply chain problem for multi-objective evolutionary algorithms

Proceedings of the Companion Conference on Genetic and Evolutionary Computation - New York, NY, United States : Association for Computing Machinery . - 2023, S. 355-358 ;

[Konferenz: Companion Conference on Genetic and Evolutionary Computation, GECCO '23 Companion, Lisbon, Portugal, July 15 - 19, 2023]

Benecke, Tobias; Mostaghim, Sanaz

Effects of optimal genetic material in the initial population of evolutionary algorithms

2023 IEEE Symposium Series on Computational Intelligence (SSCI) - Piscataway, NJ : IEEE, S. 1386-1391

Borstelmann-Arp, Lukas; Steup, Christoph; Mostaghim, Sanaz

Multi-objective seed curve optimization for coverage path planning in precision farming

Proceedings of the Genetic and Evolutionary Computation Conference Companion - New York, NY, United States : Association for Computing Machinery . - 2023, S. 1312-1320

Borstelmann-Arp, Lukas; Steup, Christoph; Mostaghim, Sanaz

Linking field decomposition and coverage path planning - a coevolution approach

IEEE CAI 2023 - Los Alamitos : IEEE, S. 294-295

Clemens, Vera; Schulz, Lars-Christian; Gartner, Marten; Hausheer, David

DDoS detection in P4 Using HYPERLOGLOG and COUNTMIN sketches

Proceedings of IEEE/IFIP Network Operations and Management Symposium 2023 , 2023 - [Piscataway, NJ]: IEEE ; Akkaya, Kemal, insges. 6 S.

Dix, Marcel; Manca, Gianluca; Okafor, Kenneth Chigozie; Borrison, Reuben; Kirchheim, Konstantin; Sharma, Divyasheel; Chandrika, Kr; Maduskar, Deepti; Ortmeier, Frank

Measuring the robustness of ML models against data quality issues in industrial time series data

2023 IEEE 21st International Conference on Industrial Informatics / IEEE International Conference on Industrial Informatics , 2023 - [Piscataway, NJ]: IEEE ; Jasperneite, Jürgen, insges. 8 S. ;

[Konferenz: IEEE 21st International Conference on Industrial Informatics, INDIN, Lemgo, Deutschland, 18 - 20 July 2023]

Djartov, Boris; Mostaghim, Sanaz

Multi-objective multiplexer decision making benchmark problem

Proceedings of the Companion Conference on Genetic and Evolutionary Computation - New York, NY, United States : Association for Computing Machinery . - 2023, S. 1676-1683

Dsilva, Vegenshanti; Schleiss, Johannes; Stober, Sebastian

Trustworthy academic risk prediction with explainable boosting machines

Artificial Intelligence in Education , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Wang, Ning, S. 463-475 - (Lecture notes in computer science; volume 13916)

Duník, Jinřich; Straka, Ondřej; Noack, Benjamin

Classification of uncertainty sources for reliable Bayesian estimation

2023 IEEE Symposium Sensor Data Fusion and International Conference on Multisensor Fusion and Integration (SDF-MFI), insges. 8 S.

Ebrahimzadeh, Maral; Krug, Valerie; Stober, Sebastian

Transformer-based chord recognition with unsupervised pre-training of input embeddings

Tagungsband, DAGA 2023 - 49. Jahrestagung für Akustik , 2023 - Berlin : Deutsche Gesellschaft für Akustik e.V. ; Estorff, Otto *1957-*, S. 1374-1377

Funk, Christopher; Noack, Benjamin

Conservative data reduction for covariance matrices using elementwise event triggers

FUSION 2023 / International Conference on Information Fusion , 2023 - [Piscataway, NJ]: IEEE, insges. 6 S.

Funk, Christopher; Noack, Benjamin

Graduated moving Window optimization as a flexible framework for multi-object tracking

2023 American Control Conference (ACC) , 2023 - [Piscataway, NJ]: IEEE ; Tan, Xiaobo, S. 4864-4870

Gartner, Marten; Krüger, Thorben; Hausheer, David

BitTorrent over SCION - leveraging Unused Network Capacities in the Internet

Proceedings of IEEE/IFIP Network Operations and Management Symposium 2023 , 2023 - [Piscataway, NJ]:

IEEE ; Akkaya, Kemal, insges. 5 S.

Gartner, Marten; Smith, Jean-Pierre; Frei, Matthias; Wirz, Francois; Neukom, Cédric; Hausheer, David; Perrig, Adrian

Hercules: high-speed bulk-transfer over SCION

2023 IFIP Networking Conference (IFIP Networking) , 2023 - [Piscataway, NJ]: IEEE, insges. 9 S.

Gehrke, Björn; Mossakowski, Till

Extending OWL2 Manchester syntax to include missing features from OWL2 abstract syntax

CEUR workshop proceedings - Aachen, Germany : RWTH Aachen, Bd. 3515 (2023), insges. 9 S.

Glauer, Martin; Mossakowski, Till; Neuhaus, Fabian; Memariani, Adel; Hastings, Janna

Neuro-Symbolic Semantic Learning for Chemistry

Compendium of Neurosymbolic Artificial Intelligence - Amsterdam : IOS Press . - 2023, S. 460-484, Artikel 21 - (Frontiers in artificial intelligence and applications; volume 369)

Glauer, Martin; Neuhaus, Fabian; Mossakowski, Till; Hastings, Janna

Ontology pre-training for poison prediction

KI 2023: Advances in Artificial Intelligence , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Seipel, Dietmar, S. 31-45 - (Lecture notes in computer science; volume 14236)

Gonschorek, Tim; Stützer, Hannes; Ortmeier, Frank; Wehmeier, Leon; Oppermann, Michael

A formal verification framework for model checking safety requirements of a simulink landing gear case study

European Conference on Safety and Reliability (ESREL), 3rd September - 7th September 2023, insges. 8 S.

Gosh, Suhita; Sinha, Yamini; Siegert, Ingo; Stober, Sebastian

Improving voice conversion for dissimilar speakers using perceptual losses

DAGA 2023 - Berlin : Deutsche Gesellschaft für Akustik e.V., S. 1358-1361

Grölle, David; Schulz, Lars-Christian; Wehner, Robin; Hausheer, David

High-speed per-packet checksums on the Intel Tofino

EuroP4 '23 - New York, NY, United States : Association for Computing Machinery . - 2023, S. 49-52

Heise, Julia; Mostaghim, Sanaz

Online learning hyper-heuristics in multi-objective evolutionary algorithms

Evolutionary Multi-Criterion Optimization , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Emmerich, Michael, S. 162-175 - (Lecture notes in computer science; volume 13970)

Heise, Julia; Weise, Jens; Mostaghim, Sanaz

Towards benchmarking of pathfinding algorithms in path-influenced environments

Proceedings of the Companion Conference on Genetic and Evolutionary Computation - New York, NY, United States : Association for Computing Machinery . - 2023, S. 69-70

Hintz, Jan; Bayerl, Sebastian P.; Sinha, Yamini; Ghosh, Suhita; Schubert, Martha; Stober, Sebastian; Riedhammer, Korbinian; Siegert, Ingo

Anonymization of stuttered speech - removing speaker information while preserving the utterance

3rd Symposium on Security and Privacy in Speech Communication - International Speech Communication Association ; Siegert, Ingo . - 2023, S. 41-45

Häring, Ivo; Mopuru, Sunil Kumar Reddy; Walz, Teo Puig; Dhanani, Mayur; Sandela, Nikhilesh; Finger, Jörg; Vogelbacher, Georg; Höflinger, Fabian; Jain, Aishvarya Kumar; Richter, Alexander; Kirchheim, Konstantin

Overall Markov diagram design and simulation example for scalable safety analysis of autonomous vehicles
European Conference on Safety and Reliability (ESREL), 3rd September - 7th September 2023, insges. 8 S. ;
[Konferenz: 33rd European Safety and Reliability Conference (ESREL 2023), Southampton, UK, 3 - 8 September 2023]

Häring, Ivo; Sandela, Nikhilesh; Walz, Teo Puig; Vogelbacher, Georg; Richter, Alexander; Jain, Aishvarya Kumar; Dhanani, Mayur; Mopuru, Sunil Kumar Reddy; Kirchheim, Konstantin; Höflinger, Fabian; Finger, Jörg

Dynamically resolving and abstracting Markov models for system resilience analysis
European Conference on Safety and Reliability (ESREL), 3rd September - 7th September 2023, insges. 8 S. ;
[Konferenz: 33rd European Safety and Reliability Conference (ESREL 2023), Southampton, UK, 3 - 8 September 2023]

Johannsmeier, Jens; Allan, Kenneth; Stober, Sebastian

Verbesserte Singing Voice Separation für Riddim-Alben
Tagungsband, DAGA 2023 - 49. Jahrestagung für Akustik , 2023 - Berlin : Deutsche Gesellschaft für Akustik e.V. ; Estorff, Otto *1957-*, S. 930-933

John, Tony; Perrig, Adrian; Hausheer, David

DMTP: Deadline-aware multipath transport protocol
2023 IFIP Networking Conference (IFIP Networking) , 2023 - [Piscataway, NJ]: IEEE, insges. 9 S.

Kerautret, B.; Kirchheim, Konstantin; Lopresti, D.; Ngo, P.; Tomaszewska, P.

Promoting reproducibility of research results in international events (report from the RRPR)
Reproducible Research in Pattern Recognition , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Kerautret, Bertrand, S. 111-123 - (Lecture notes in computer science; volume 14068) ;
[Workshop: Fourth International Workshop on Reproducible Research in Pattern Recognition, RRPR 2022, Montreal, Canada, August 21, 2022]

Kirchheim, Konstantin

Towards deep anomaly detection with structured knowledge representations
Computer Safety, Reliability, and Security. SAFECOMP 2023 Workshops , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Guiochet, Jérémie, S. 382-389 - (Lecture notes in computer science; volume 14182) ;
[Konferenz: International Conference on Computer Safety, Reliability, and Security, SAFECOMP, Toulouse, France, September 19, 2023]

Kirchheim, Konstantin; Filax, Marco; Ortmeier, Frank

On challenging aspects of reproducibility in deep anomaly detection
Reproducible Research in Pattern Recognition , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Kerautret, Bertrand, S. 57-66 - (Lecture notes in computer science; volume 14068) ;
[Workshop: Fourth International Workshop on Reproducible Research in Pattern Recognition, RRPR 2022, Montreal, Canada, August 21, 2022]

Krug, Valerie; Olson, Christopher; Stober, Sebastian

Visualizing bias in activations of deep neural networks as topographic maps
CEUR workshop proceedings - Aachen, Germany : RWTH Aachen, Bd. 3523 (2023), insges. 10 S.

Krug, Valerie; Ratul, Raihan Kabir; Olson, Christopher; Stober, Sebastian

Visualizing deep neural networks with topographic activation maps
HHAI 2023 / Lukowicz , P. , 1st ed. - Amsterdam : IOS Press, Incorporated ; Lukowicz, P., S. 138-152

Krüger, Thoben; Beck, Clemens; Hausheer, David

Path Oracle - improving performance of path-aware applications in SCION
2023 19th International Conference on Network and Service Management (CNSM) - [Piscataway, NJ]: IEEE, insges. 5 S.

Lang, Sebastian; Siegert, Ingo; Artiushenko, Viktor; Schleiss, Johannes

AI Engineering als interdisziplinäres Einführungsmodul zwischen Künstlicher Intelligenz und Ingenieurwesen
Informatik 2023 - Berlin : Gesellschaft für Informatik e.V. ; Klein, Maik, S. 381-384 - (GI-Edition. Proceedings; volume P-337)

Lukashevich, Hanna; Grollmisch, Sascha; Abeßer, Jakob; Stober, Sebastian; Bös, Joachim

How reliable are posterior class probabilities in automatic music classification?
Proceedings of the 18th International Audio Mostly Conference - New York, NY : The Association for Computing Machinery . - 2023, S. 45-50

Mai, Sebastian; Benecke, Tobias; Mostaghim, Sanaz

MACO - a real-world inspired benchmark for multi-objective evolutionary algorithms
Evolutionary Multi-Criterion Optimization , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Emmerich, Michael, S. 305-318 - (Lecture notes in computer science; volume 13970)

Mania, Georgiana; Styles, Nicholas; Kuhn, Michael; Salzburger, Andreas; Yeo, Beomki; Ludwig, Thomas

Vecpar - a framework for portability and parallelization
Computational Science – ICCS 2023 , 1st ed. 2023. - Cham : Springer Nature Switzerland ; Mikyška, Jiří., S. 253-267 - (Lecture notes in computer science book series; volume 14073)

Mayer, Jana; Klumpp, Vesa; Hillenbrand, Jonas; Noack, Benjamin

Statistical approach for preload monitoring of ball screw drives
IEEE SENSORS 2023 - Piscataway, NJ, USA : IEEE, insges. 4 S.

Mossakowski, Till; Hedblom, Maria M.; Neuhaus, Fabian; Arévalo Arboleda, Stephanie; Raake, Alexander

Using the diagrammatic image schema language for joint human-machine cognition
Engineering for a changing world - Ilmenau : Technische Universität Ilmenau, Department of Mechanical Engineering ; Sattler, Kai-Uwe *1968-* . - 2023, S. 1-5, Artikel 5.1.133

Mostaghim, Sanaz; Shan, Qihao; Desel, Christiane Anna-Elisabeth; Duscha, Alexander; Haghikia, Aiden; Hegelmaier, Tobias Sebastian

Unfolding the variability of clinical data in Parkinson treatment using multi-objective analysis
IEEE CAI 2023 - Los Alamitos : IEEE, S. 120-121

Mostaghim, Sanaz; Shan, Qihao; Desel, Christiane Anna-Elisabeth; Duscha, Alexander; Haghikia, Aiden; Hegelmaier, Tobias Sebastian; Kuhn, Felix; Remy, Stefan

Medical and behavioral knowledge discovery using multi-objective analysis
2023 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB) - Piscataway, NJ : IEEE, insges. 8 S.

Rahman, Md Shohanor; Nikoukar, Ali; Günes, Mesut

(POSTER) Smart shoe for fall detection application
2023 19th International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT) - Piscataway, NJ : IEEE, S. 83-85

Rahman, Md Shohanor; Nukoukar, Ali; Günes, Mesut; Dezfouli, Behnam

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Prof. Dr. Graham Horton (geschäftsführender Leiter)

Prof. Dr. Holger Theisel

Prof. Dr. Stefan Schirra

Rita Freudenberg

Dr. Volkmar Hinz

Dr. Christian Rössl

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1. LEITUNG

Prof. Dr. Klaus Turowski