



FAKULTÄT FÜR
INFORMATIK

Publikationsbericht 2022

Fakultät für Informatik

FAKULTÄT FÜR INFORMATIK

1. LEITUNG

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

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

Prof. Dr. Mesut Günes (Studiendekan) bis 09/2022

Jun.-Prof. Dr. Christian Lessig (Studiendekan) ab 10/2022

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Allgaier, Mareen; Amini, Amir; Neyazi, Belal; Sandalcioglu, I. Erol; Preim, Bernhard; Saalfeld, Sylvia

VR-based training of craniotomy for intracranial aneurysm surgery

International journal of computer assisted radiology and surgery - Berlin: Springer, 2006, Bd. 17 (2022), 3, S. 449-456;

[Imp.fact.: 3.421]

Chabi, Negar; Iuso, Domenico; Beuing, Oliver; Preim, Bernhard; Saalfeld, Sylvia

Self-calibration of C-arm imaging system using interventional instruments during an intracranial biplane angiography

International journal of computer assisted radiology and surgery - Berlin: Springer, 2006, Bd. 17 (2022), 7, S. 1355-1366;

[Imp.fact.: 3.421]

Rother, Anne; Spiliopoulou, Myra

Virtual reality for medical annotation tasks - a systematic review

Frontiers in virtual reality - Lausanne: Frontiers Media, 2020, Bd. 3 (2022), insges. 12 S.;

Schott, Danny; Heinrich, Florian; Labsch, Dominic; Hensen, Bennet; Hansen, Christian

Towards multimodal interaction for needlebased procedures in a virtual radiology suite

Current directions in biomedical engineering - Berlin: De Gruyter, 2015, Bd. 8 (2022), 1, S. 70-73;

Schott, Danny; Heinrich, Florian; Stallmeister, Lara; Hansen, Christian

Exploring object and multi-target instrument tracking for AR-guided interventions

Current directions in biomedical engineering - Berlin: De Gruyter, 2015, Bd. 8 (2022), 1, S. 74-77;

Weise, Jens; Mostaghim, Sanaz

A comparison of distance metrics for the multi-objective pathfinding problem

Natural computing - Dordrecht: Springer Science + Business Media B.V., 2002 . - 2022, insges. 14 S.;

[Imp.fact.: 1.504]

DISSERTATIONEN

Chatterjee, Soumick; Nürnberger, Andreas [AkademischeR BetreuerIn]; Speck, Oliver [AkademischeR BetreuerIn]

Reducing artefacts in MRI using Deep Learning - enhancing automatic image processing pipelines

Magdeburg, 2022, xxv, 360 Seiten, Illustrationen, Diagramme, 30 cm

Chheang, Vuthea; Preim, Bernhard [AkademischeR BetreuerIn]

Collaborative virtual reality for laparoscopic liver surgery training and planning

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (168 Seiten, 49,1 MB), Illustrationen;

Engelhardt, Frank; Güneş, Mesut [AkademischeR BetreuerIn]

Delay-constrained wireless multi-hop networks in the tactile internet

Magdeburg: Universitätsbibliothek Magdeburg, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Informatik 2022, 1 Online-Ressource (xi, 152 Seiten, 4,67 MB) ;
[Literaturverzeichnis: 134-142]

Kotzyba, Michael; Nürnberger, Andreas [AkademischeR BetreuerIn]

User behavior models for exploratory information seeking

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xxiii, 256 Seiten, 8,47 MB), Illustrationen, Diagramme;

Krieter, Sebastian; Saake, Gunter [AkademischeR BetreuerIn]; Leich, Thomas [AkademischeR BetreuerIn]

Efficient interactive and automated product-line configuration

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xiv, 159 Seiten, 2,62 MB), Illustrationen;

Low, Thomas; Nürnberger, Andreas [AkademischeR BetreuerIn]

Towards combining search and exploration - escaping the filter bubble through map-based exploration

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xii, 210 Seiten, 11,88 MB), Illustrationen, Diagramme;

Meyer, Anneke; Hansen, Christian [AkademischeR BetreuerIn]

Exploiting supplementary data and knowledge for improved CNN-based segmentation of prostate structures in T2-weighted MRI

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xiii, 167 Seiten, 28,23 MB), Illustrationen;

Niemann, Annika; Saalfeld, Sylvia [AkademischeR BetreuerIn]

Multimodal analysis of intracranial aneurysm walls

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (190 Blätter, 74,93 MB), Illustrationen;

Pinnecke, Marcus; Saake, Gunter [AkademischeR BetreuerIn]

On optimal storage for heterogeneous hybrid transactional/analytical processing

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xiii, 150 Seiten, 6,95 MB), Illustrationen;

Thosar, Madhura; Zug, Sebastian [AkademischeR BetreuerIn]

Rock, paper, scissor: What's a substitute for hammer? - an approach to substitute selection for missing tool using robot-centric conceptual knowledge about objects

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xii, 197 Seiten, 17,21 MB);

Volk, Matthias; Turowski, Klaus [AkademischeR BetreuerIn]; Zeier, Alexander [AkademischeR BetreuerIn]

Decision support for the technology selection in Big Data projects - an end-to-end approach

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xxiv, 292 Seiten, 21,3 MB), Illustrationen;

Wagner, Sebastian; Preim, Bernhard [AkademischeR BetreuerIn]

Virtual reality for the assessment of unilateral spatial neglect and the therapy of acrophobia

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (viii, 157 Seiten, 72,65 MB), Illustrationen;

Xu, Jiahua; Nürnberger, Andreas [AkademischeR BetreuerIn]; Sabel, Bernhard A. [AkademischeR BetreuerIn]

Noninvasive brain stimulation and visual field decoding for vision recovery in patients with occipital brain damage

Magdeburg: Universitätsbibliothek, 2022, 1 Online-Ressource (xiv, 126 Seiten, 26,41 MB), Illustrationen, Diagramme;

1. LEITUNG

Prof. Dr. David Hausheer (geschäftsführende Leitung)

Prof. Dr. rer. nat. Mesut Günes

Prof. Dr.-Ing. habil. Till Mossakowski

Sebastian Mai, M.Sc.

Dipl.-Inform. Michael Preuß

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

AL-Maatoq, Marwah; Fuentealba, Patricio; Facht, Melanie; Glüge, Rainer; Ali, Salah H. R.; Hoeschen, Christoph

Carbon nanotube-based reinforced polymers for medical applications - improving impact strength of polymer-polymer composites

Journal of nanomaterials - New York, NY : Hindawi Publ., Bd. 2022 (2022), Artikel 1760198, insges. 15 S.

[Imp.fact.: 3.791]

Corker, Elizabeth; Marques, Marta; Johnston, Marie; West, Robert; Hastings, Janna; Michie, Susan

Behaviour change techniques taxonomy v1 - feedback to inform the development of an ontology

Wellcome open research - London : Wellcome Trust, Bd. 7 (2022), Artikel 211, insges. 13 S.

Cox, Sharon; West, Robert; Notley, Caitlin; Soar, Kirstie; Hastings, Janna

Toward an ontology of tobacco, nicotine and vaping products

Addiction - Oxford [u.a.]: Wiley-Blackwell . - 2022, insges. 12 S.;

[Imp.fact.: 7.256]

Dassow, Jürgen

The orbit of closure-involution operations - the case of Boolean functions

Beiträge zur Algebra und Geometrie - Berlin: Springer, Bd. 63 (2022), S. 321-334;

Dassow, Jürgen; Jecker, Ismael

Operational complexity and Pumping lemmas

Acta informatica - Berlin: Springer, Bd. 59 (2021), S. 337-355, 2022;

[Imp.fact.: 0.871]

Dassow, Jürgen; Truthe, Bianca

On the generative capacity of contextual grammars with strictly locally testable selection languages

Electronic proceedings in theoretical computer science - Sydney : NICTA, Bd. 367 (2022), S. 65-80

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 . - 2022, insges. 1 S.

[Imp.fact.: 1.851]

Erleben, Timm Leon; Duwe, Kira; Saak, Jens; Köhler, Martin; Kuhn, Michael

Green storage - parallel file systems on ARM

International Journal on Advances in Software - [S.l.]: IARIA, Bd. 15 (2022), 3&4, S. 200-210;

Filax, Marco; Gonschorek, Tim; Ortmeier, Frank

Semi-automatic acquisition of datasets for retail recognition

Journal of WSCG - Plzen, Bd. 30 (2022), 1-2, S. 86-94;

Fischer, Dominik; Mostaghim, Sanaz; Seidelmann, Thomas

Exploring dynamic pandemic containment strategies using multi-objective Optimization [research frontier]
IEEE computational intelligence magazine/ Institute of Electrical and Electronics Engineers - New York, NY
[u.a.]: IEEE, Bd. 17 (2022), 3, S. 54-65;
[Imp.fact.: 9.809]

Föllmer, Bernhard; Biavati, Federico; Wald, Christian; Stober, Sebastian; Ma, Jackie; Dewey, Marc; Samek, Wojciech

Active multitask learning with uncertainty-weighted loss for coronary calcium scoring
Medical physics - Hoboken, NJ: Wiley . - 2022, insges. 16 S. ;
[Imp.fact.: 4.506]

Hawlitsek, 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 . - 2022;

Henze, Jasmin; Fuentealba, Patricio; Salvi, Rutuja; Sahare, Natasha; Bisgin, Pinar; Burmann, Anja; Illanes, Alfredo; Friebe, Michael

Towards identification of biometric properties in blood flow sounds using neural networks and saliency maps
Current directions in biomedical engineering - Berlin: De Gruyter, 2015, Bd. 8 (2022), 2, S. 540-543;

Javadi, Mahrokh; Mostaghim, Sanaz

Analysis of inter and intra-front operations in multi-modal multi-objective optimization problems
Natural computing - Dordrecht : Springer Science + Business Media B.V. . - 2022, insges. 16 S.
[Imp.fact.: 1.504]

Larsen, Rasmus R.; Maschião, Luca F.; Piedade, Valter L.; Messas, Guilherme; Hastings, Janna

More phenomenology in psychiatry? - applied ontology as a method towards integration
The lancet <London>/ Psychiatry - Philadelphia, Pa. : Elsevier, Bd. 9 (2022), 9, S. 751-758
[Imp.fact.: 77.056]

Michie, Susan; Hastings, Janna; Johnston, Marie; Hankonen, Nelli; Wright, Alison J.; West, Robert

Developing and using ontologies in behavioural science - addressing issues raised
Wellcome open research - London : Wellcome Trust, Bd. 7 (2022), Artikel 222, insges. 8 S.

Neuhaus, Fabiana; Hastings, Janna

Ontology development is consensus creation, not (merely) representation
Applied ontology - Amsterdam : IOS Press . - 2022, insges. 19 S.
[Imp.fact.: 1.367]

Plehn, Julius; Fuchs, Anna; Kuhn, Michael; Lüttgau, Jakob; Ludwig, Thomas

Data-aware compression for HPC using machine learning
ACM SIGOPS operating systems review/ Association for Computing Machinery - New York, NY: ACM, Bd. 56 (2022), 1, S. 62-69;

Schreiter, Josefine; Semshchikov, Vladimir; Hanses, Magnus; Elkmann, Norbert; Hansen, Christian

Towards a real-time control of robotic ultrasound using haptic force feedback
Current directions in biomedical engineering - Berlin: De Gruyter, Bd. 8 (2022), 1, S. 81-84;

Shan, Qihao; Mostaghim, Sanaz

Noise-resistant and scalable collective preference learning via ranked voting in swarm robotics
Swarm intelligence - New York, NY [u.a.]: Springer . - 2022, insges. 22 S. ;
[Imp.fact.: 3.727]

Shillcock, Julian C.; Hastings, Janna; Riguet, Nathan; Lashuel, Hilal A.

Non-monotonic fibril surface occlusion by GFP tags from coarse-grained molecular simulations
Computational and structural biotechnology journal - Gotenburg : Research Network of Computational and Structural Biotechnology (RNCSB), Bd. 20 (2022), S. 309-321
[Imp.fact.: 6.155]

Vahid, Amirali; Mückschel, Moritz; Stober, Sebastian; Stock, Ann-Kathrin; Beste, Christian

Conditional generative adversarial networks applied to EEG data can inform about the inter-relation of antagonistic behaviors on a neural level
Communications biology - London: Springer Nature, Bd. 5 (2022), 1, insges. 11 S.;
[Imp.fact.: 6.548]

Weikert, Dominik; Steup, Christoph; Mostaghim, Sanaz

Availability-aware multiobjective task allocation algorithm for internet of things networks
IEEE internet of things journal/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE, Bd. 9 (2022), 15, S. 12945-12953;
[Imp.fact.: 10.238]

Weise, Jens; Mostaghim, Sanaz

A comparison of distance metrics for the multi-objective pathfinding problem
Natural computing - Dordrecht: Springer Science + Business Media B.V., 2002 . - 2022, insges. 14 S.;
[Imp.fact.: 1.504]

BEGUTACHTETE BUCHBEITRÄGE

Anderer, Simon; Schrader, Falk; Scheuermann, Bernd; Mostaghim, Sanaz

Evolutionary algorithms for the constrained two-level role mining problem
Evolutionary Computation in Combinatorial Optimization , 1st ed. 2022. - Cham : Springer International Publishing ; Pérez Cáceres, Leslie, S. 79-94 - (Lecture notes in computer science; volume 13222)

Benecke, Tobias; Mostaghim, Sanaz

Estimating the quality of initial populations in multi-objective evolutionary algorithms
Konferenz: Genetic and Evolutionary Computation Conference, GECCO 22, Boston, Massachusetts, July 9 - 13, 2022, Proceedings of the Genetic and Evolutionary Computation Conference Companion - New York, NY, United States: Association for Computing Machinery; Fieldsend, Jonathan E. . - 2022, S. 324-327;

Buschsieweke, Marian; Güneş, Mesut

Efficient revocation of capability tokens
NOMS 2022 - 2022 IEEE/IFIP Network Operations and Management Symposium , 2022 - Piscataway, NJ : IEEE

Christensen, Fin; Kientopf, Kai; Staudinger, Emanuel; Güneş, Mesut

Performance of routing protocols over TDMA MAC for robotic swarms in space exploration
Konferenz: IEEE 95th Vehicular Technology Conference, VTC2022-Spring, Helsinki, Finland, 19-22 June 2022, 2022 IEEE 95th Vehicular Technology Conference:(VTC2022-Spring)/ IEEE Vehicular Technology Conference - Piscataway, NJ: IEEE . - 2022, insges. 5 S.;

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Authentication
The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 35-63

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Availability guarantees
The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 267-300

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Code-level verification
The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 519-562

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Control plane

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 65-91

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Current status and plans

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 563-572

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Data plane

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 93-125

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Deployment and operation

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 317-359

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Design-level verification

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 477-517

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Extensions for the control plane

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 185-201

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Extensions for the data plane

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 227-266

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

F-PKI - a flexible end-entity public-key infrastructure

The Complete Guide to SCION/ Chuat - Cham: Springer International Publishing; Chuat, Laurent . - 2022, S. 419-430;

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Functional properties and scalability

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 129-156

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Green networking with SCION

The Complete Guide to SCION/ Chuat - Cham: Springer International Publishing; Chuat, Laurent . - 2022, S. 393-406;

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Host structure

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 303-315

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Introduction

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 1-13

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Monitoring and filtering

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 203-225

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Motivation for formal verification

The Complete Guide to SCION/ Chuat - Cham: Springer International Publishing; Chuat, Laurent . - 2022, S. 473-476;

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Overview

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 17-33

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

PILA - pervasive internet-wide low-latency authentication

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 461-469

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

RHINE - secure and reliable internet naming service

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 431-459

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Related work

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 575-583

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

SCIONLAB research testbed

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 361-369

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Security analysis

The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 157-181

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adrian

Use cases and applications

The Complete Guide to SCION / Chuat, Laurent, 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 371-392

Dockhorn, Alexander; Kruse, Rudolf

Balancing exploration and exploitation in forward model learning

Advances in Intelligent Systems Research and Innovation, 1st ed. 2022. - Cham : Springer International Publishing ; Sgurev, Vassil, S. 1-19 - (Studies in systems, decision and control; volume 379)

Eckert, Dominik; Ritschl, Ludwig; Herbst, Magdalena; Wicklein, Julia; Vesal, Sulaiman; Kappler, Steffen; Maier, Andreas; Stober, Sebastian

Deep learning based denoising of mammographic x-ray images: an investigation of loss functions and their detail-preserving properties

Konferenz: SPIE Medical Imaging, 2022, San Diego, California, United States, 2022, Proceedings of SPIE/ SPIE - Bellingham, Wash.: SPIE, Bd. 12031 (2022);

Ehrlich, Marco; Lukas, Georg; Trsek, Henning; Jasperneite, Jürgen; Diedrich, Christian

Investigation of resource constraints for the automation of industrial security risk assessments

Konferenz: 18th International Conference on Factory Communication Systems, WFCS, Pavia, Italy, 27-29 April 2022, 18th IEEE International Workshop on Factory Communication Systems 2022/ IEEE International Conference on Factory Communication Systems - [Piscataway, NJ]: IEEE . - 2022, insges. 8 S.;

Engelhardt, Frank; Güneş, Mesut

A /sys filesystem for the internet of things

NOMS 2022 - 2022 IEEE/IFIP Network Operations and Management Symposium, 2022 - Piscataway, NJ : IEEE, insges. 6 S.

Engelhardt, Frank; Herbrechtsmeyer, Sophie; Günes, Mesut

Kinesthetic coding based on the fast wavelet transform for remote-controlling a quadrotor drone

2022 IEEE 19th Annual Consumer Communications & Networking Conference (CCNC) / IEEE CCNC, 2022 - [Piscataway, NJ]: IEEE, S. 157-162

Erxleben, Timm Leon; Duwe, Kira; Saak, Jens; Köhler, Martin; Kuhn, Michael

Energy efficiency of parallel file systems on an ARM cluster

ENERGY 2022 - [Wilmington, DE]: IARIA ; Sultan, Vivian, S. 42-48

Gartner, Marten; Wagner, Johann; Koppchel, Martin; Hausheer, David

Demonstration of xiondp - an XDP-accelerated processing of SCION packets

Network and service management in the era of cloudification, softwarization and artificial intelligence / IEEE/IFIP Network Operations and Management Symposium, 2022 - [Piscataway, NJ]: IEEE ; Varga, Pal

Gartner, Marten; Wagner, Johann; Koppchel, Martin; Hausheer, David

XDP-accelerated packet processing on SCION endhosts

Network and service management in the era of cloudification, softwarization and artificial intelligence / IEEE/IFIP Network Operations and Management Symposium, 2022 - [Piscataway, NJ]: IEEE ; Varga, Pal

Gehreke, Lukas; Kientopf, Kai; Güneş, Mesut

B.A.T.M.A.N. in the IoT

NOMS 2022 - 2022 IEEE/IFIP Network Operations and Management Symposium, 2022 - Piscataway, NJ : IEEE

Ghosh, Suhita; Ernst, Philipp; Rose, Georg; Nürnberger, Andreas; Stober, Sebastian

Towards patient specific reconstruction using perception-aware CNN and planning CT as prior

Konferenz: 19th International Symposium on Biomedical Imaging, ISBI, Kolkata, India, 28-31 March 2022, IEEE ISBI 2022 proceedings/ IEEE ISBI - Piscataway, NJ, USA1: IEEE; isbi . - 2022;

Glauer, Martin; West, Robert; Michie, Susan; Hastings, Janna

ESC-Rules - explainable, semantically constrained rule sets

CEUR workshop proceedings - Aachen, Germany : RWTH Aachen, Bd. 3212 (2022), Artikel paper 7, insges. 10 S.

Hasting, Janna

Achieving inclusivity by design - social and contextual information in medical knowledge
Yearbook of medical informatics - Stuttgart : Thieme . - 2022, insges. 8 S.

Hawlitsek, Anja; Rudolf, Galina; Zug, Sebastian

Informatikstudierende als Teamplayer - wie die Integration von Teamarbeit in die Lehre gelingen kann
DELFI 2022 - Bonn: Köllen; Henning, Peter A. *1958-* . - 2022, S. 99-104;

Hedblom, Maria; Neuhaus, Fabian

Visualising image schemas - a preliminary look at the diagrammatic image schema language (DISL)
CEUR workshop proceedings - Aachen, Germany: RWTH Aachen, Bd. 3140 (2022), insges. 7 S.;

Keiff, Maximilian; Voigt, Frederic; Fuchs, Anna; Kuhn, Michael; Squar, Jannek; Ludwig, Thomas

Automated performance analysis tools framework for HPC programs
Procedia computer science - Amsterdam [u.a.]: Elsevier, Bd. 207 (2022), S. 1067-1076

Khamsehashari, Razieh; Sinha, Yamini; Hintz, Jan; Ghosh, Suhita; Polzehl, Tim; Franzreb, Carlos; Stober, Sebastian; Siegert, Ingo

Voice Privacy - leveraging multi-scale blocks with ECAPA-TDNN SE-Res2NeXt extension for speaker anonymization
2nd Symposium on Security and Privacy in Speech Communication - Incheon, Korea, 23-24 September 2022 - International Speech Communication Association ; Siegert, Ingo, S. 43-48

Kirchheim, Konstantin; Filax, Marco; Ortmeier, Frank

PyTorch-OOD - a library for Out-of-Distribution Detection based on PyTorch
Konferenz: IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, CVPRW, Orleans, LA, USA, 19-20 June 2022, 2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops/ IEEE/CVF Computer Vision and Pattern Recognition Conference - Piscataway, NJ: IEEE . - 2022, S. 4350-4359;

Mai, Sebastian; Deubel, Maximilian; Mostaghim, Sanaz

Multi-objective roadmap optimization for multiagent navigation
Kongress: 2022 IEEE Congress on Evolutionary Computation, CEC, Padua, Italy, 18-23 July 2022, 2022 IEEE Congress on Evolutionary Computation (CEC)/ IEEE Congress on Evolutionary Computation - Piscataway, NJ, USA: IEEE . - 2022;

Mai, Sebastian; Mostaghim, Sanaz

Collective decision-making for conflict resolution in multi-agent pathfinding
Swarm Intelligence , 1st ed. 2022. - Cham : Springer International Publishing ; Dorigo, Marco, S. 79-90 - (Lecture notes in computer science; volume 13491)

Mai, Sebastian; Traichel, Nele; Mostaghim, Sanaz

Driving swarm - a swarm robotics framework for intelligent navigation in a self-organized world
2022 IEEE International Conference on Robotics and Automation (ICRA)/ IEEE International Conference on Robotics and Automation - IEEE . - 2022, S. 4958-4964;

Mossakowski, Till

Modular design patterns for neural-symbolic integration - refinement and combination
CEUR workshop proceedings - Aachen, Germany: RWTH Aachen, Bd. 3212 (2022), insges. 10 S.;

Mostaghim, Sanaz

Computational intelligence methodologies for multi-objective optimization and decision-making in autonomous systems
Women in Computational Intelligence , 1st ed. 2022. - Cham : Springer International Publishing ; Smith, Alice E., S. 377-392

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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. Jana Dittmann

Prof. Dr. Gunter Saake

Prof. Dr. Andreas Nürnberger

M.Sc. Daniel Staegemann

Dipl.-Wirtsch.-Inf. Dirk Dreschel

Dipl.-Ing. Fred Kreuzmann

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