



FAKULTÄT FÜR
INFORMATIK

Publikationsbericht 2021

Fakultät für Informatik

FAKULTÄT FÜR INFORMATIK

1. LEITUNG

Prof. Dr.-Ing. Andreas Nürnberger (Dekan) bis zum 30.09.2020

Prof. Dr. rer. pol. habil. Hans-Knud Arndt (Dekan) ab 01.10.2020

Prof. Dr. rer. nat. habil. Stefan Schirra (Prodekan) bis zum 30.09.2020

Prof. Dr.-Ing. Holger Theisel (Prodekan) ab 01.10.2020

Prof. Dr. Mesut Günes (Studiendekan)

2. VERÖFFENTLICHUNGEN

ABSTRACTS

Gomes-Ataide, Elmer Jeto; Agrawal, Shubham; Jauhari, Aishwarya; Boese, Axel; Illanes, Alfredo; Schenke, Simone; Kreißl, Michael; Friebe, Michael

Comparison of deep learning algorithms for semantic segmentation of ultrasound thyroid nodules

Biomedical engineering - Berlin [u.a.]: de Gruyter, 1998, Bd. 66 (2021), s1, S. S156;

[Imp.fact.: 1.411]

HABILITATIONEN

Krull, Claudia; Horton, Graham [AkademischeR BetreuerIn]

Virtual stochastic sensors - formal background and example applications : reconstructing the behavior of partially observable discrete and hybrid stochastic systems

Düren: Shaker Verlag, 2021, xvi, 183 Seiten, Illustrationen, Diagramme, 21 cm, 299 g - (Berichte aus der Informatik)

DISSERTATIONEN

Alemzadeh, Shiva; Preim, Bernhard [AkademischeR BetreuerIn]

Visual analytics of epidemiological and multi-omics data

Magdeburg, 2021, x, 132 Seiten, Illustrationen, Diagramme, 30 cm

Azeroual, Otmane; Saake, Gunter [AkademischeR BetreuerIn]; Arndt, Hans-Knud [AkademischeR BetreuerIn]

Untersuchungen zur Datenqualität und Nutzerakzeptanz von Forschungsinformationssystemen

Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (XVI, 185 Seiten, 16,82 MB);

Bartashevich, Palina; Mostaghim, Sanaz [AkademischeR BetreuerIn]

Decision-making algorithms - collective, social, and individual learning

Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (iv, 171 Seiten, 15,77 MB), Illustrationen, Diagramme;

Gerrits, Tim; Theisel, Holger [AkademischeR BetreuerIn]

Visualization of second-order-tensor data and vector field ensembles

Magdeburg, 2021, xiii, 182 Seiten, Illustrationen, Diagramme, 30 cm

Krüger, Jacob; Saake, Gunter [AkademischeR BetreuerIn]; Leich, Thomas [AkademischeR BetreuerIn]

Understanding the re-engineering of variant-rich systems - an empirical work on economics, knowledge, traceability, and practices

Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xxvi, 242 Seiten, 3,17 MB), Illustrationen;

Kümmel, Karl F.; Dittmann, Jana [AkademischeR BetreuerIn]

Sicherheit biometrischer Systeme - Analyse der Sicherheit und Rückführbarkeit eines biometrischen Hash Algorithmus für die dynamische Handschrift
Magdeburg, 2021, VI, 232 Seiten, Illustrationen, Diagramme, 30 cm

Niemann, Uli; Spiliopoulou, Myra [AkademischeR BetreuerIn]; Preim, Bernhard [AkademischeR BetreuerIn]

Intelligent assistance for expert-driven subpopulation discovery in high-dimensional timestamped medical data
Magdeburg, 2021, ix, 185 Seiten, Illustrationen, Diagramme, 30 cm

Wilde, Thomas; Theisel, Holger [AkademischeR BetreuerIn]

Flow map processing
Magdeburg, 2021, xiv, 171 Seiten, Illustrationen, Diagramme, 30 cm

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

Ai, Xiaocong; Mania, Georgiana; Gray, Heather M.; Kuhn, Michael; Styles, Nicholas

A GPU-based Kalman filter for track fitting

Computing and software for big science - Cham, Switzerland: Springer International Publishing, Bd. 5 (2021), insges. 16 S.;

Bartashevich, Palina; Mostaghim, Sanaz

Multi-featured collective perception with evidence theory - tackling spatial correlations

Swarm intelligence - New York, NY [u.a.]: Springer . - 2021, insges. 28 S.;

[Imp.fact.: 2.556]

Booshehri, Meisam; Emele, Lukas; Flügel, Simon; Förster, Hannah; Frey, Johannes; Frey, Ulrich; Glauer, Martin; Hastings, Janna; Hofmann, Christian; Hoyer-Klick, Carsten; Hülk, Ludwig; Kleinau, Anna; Knosala, Kevin; Kotzur, Leander; Kuckertz, Patrick; Mossakowski, Till; Muschner, Christoph; Neuhaus, Fabian; Pehl, Michaja; Robinius, Martin; Sehn, Vera; Stappel, Mirjam

Introducing the Open Energy Ontology - enhancing data interpretation and interfacing in energy systems analysis
Energy and AI - Amsterdam: Elsevier ScienceDirect, Bd. 5 (2021), insges. 14 S.;

Dassow, Jürgen

Operational complexity and right linear grammars

Acta informatica - Berlin: Springer, Bd. 58 (2021), S. 281-299; <http://dx.doi.org/10.1007/s00236-020-00386-3>
10.25673/42547

[Imp.fact.: 0.375]

Dockhorn, Alexander; Kruse, Rudolf

Fuzzy modeling in game AI

TWMS journal of pure and applied mathematics - Baku: Turkic World Mathematical Society, Bd. 12 (2021), N.1, speciale issue, S. 54-68;

[Imp.fact.: 1.449]

Dockhorn, Alexander; Kruse, Rudolf

Modellheuristiken für effizientes forward model learning

Automatisierungstechnik - Berlin: De Gruyter, Bd. 69 (2021), 10, S. 848-857;

[Imp.fact.: 0.547]

Funk, Christopher; Noack, Benjamin; Hanebeck, Uwe D.

Conservative quantization of covariance matrices with applications to decentralized information fusion

Sensors - Basel: MDPI, Bd. 21 (2021), 9, insges. 21 S.;

[Imp.fact.: 3.275]

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

Learning chemistry - exploring the suitability of machine learning for the task of structure-based chemical ontology classification

Journal of cheminformatics - London: BioMed Central, Bd. 13 (2021), insges. 25 S.;

Kasmi, Zakaria; Norrdine, Abdelmoumen; Schiller, Jochen; Günes, Mesut; Motzko, Christoph

RcdMathLib - an open source software library for computing on resource-limited devices

Sensors - Basel: MDPI, Volume 21(2021), issue 5, article 1689, 23 Seiten;

[Imp.fact.: 3.275]

Krug, Andreas; Ebrahimzadeh, Maral; Alemann, Jost; Johannsmeier, Jens; Stober, Sebastian

Analyzing and visualizing deep neural networks for speech recognition with saliency-adjusted neuron activation profiles

Electronics - Basel: MDPI, Bd. 10 (2021), 11, insges. 30 S.;

[Imp.fact.: 2.397]

Krüger, Thorben; Hausheer, David

Early Work - path selection in a path-aware network architecture

Electronic communications of the EASST - Berlin: Techn. Univ., Bd. 80 (2021), insges. 6 S.;

Lang, Sebastian; Reggelin, Tobias; Schmidt, Johann; Müller, Marcel; Nahhas, Abdulrahman

NeuroEvolution of augmenting topologies for solving a two-stage hybrid flow shop scheduling problem - a comparison of different solution strategies

Expert systems with applications - Amsterdam [u.a.]: Elsevier Science, Vol. 172 (2021), article 114666, insgesamt 19 Seiten;

[Imp.fact.: 5.452]

Marques, Marta M.; Carey, Rachel N.; Norris, Emma; Evans, Fiona; Finnerty, Ailbhe N.; Hastings, Janna; Jenkins, Ella; Johnston, Marie; West, Robert; Michie, Susan

Delivering behaviour change interventions - development of a mode of delivery ontology

Wellcome open research - London: Wellcome Trust, Bd. 5 (2021), insges. 27 S.;

Meyer, Anneke; Ghosh, Suhita; Schindele, Daniel; Schostak, Martin; Stober, Sebastian; Hansen, Christian; Rak, Marko

Uncertainty-aware temporal self-learning (UATS) - semi-supervised learning for segmentation of prostate zones and beyond

Artificial intelligence in medicine: AIM - Amsterdam [u.a.]: Elsevier Science - AIM, Bd. 116 (2021);

[Imp.fact.: 4.383]

Mostaghim, Sanaz

IEEE CIS VP-member activities vision statement [society briefs]

IEEE computational intelligence magazine/ Institute of Electrical and Electronics Engineers - New York, NY [u.a.]: IEEE, Bd. 16 (2021), 1, insges. 8 S.;

[Imp.fact.: 11.356]

Nielebock, Sebastian; Heumüller, Robert; Schott, Kevin Michael; Ortmeier, Frank

Guided pattern mining for API misuse detection by change-based code analysis

Automated software engineering - Dordrecht [u.a.]: Springer Science + Business Media B.V, Bd. 28 (2021), insges. 48 S.;

[Imp.fact.: 1.273]

Norris, Emma; Hastings, Janna; Marques, Marta M.; Finnerty Mutlu, Ailbhe N.; Zink, Silje; Michie, Susan

Why and how to engage expert stakeholders in ontology development - insights from social and behavioural sciences

Journal of biomedical semantics - London: BioMed Central, Bd. 12 (2021), insges. 8 S.;

[Imp.fact.: 2.16]

Norris, Emma; Wright, Alison J.; Hastings, Janna; West, Robert; Boyt, Neil; Michie, Susan
Specifying who delivers behaviour change interventions - development of an Intervention Source Ontology
Wellcome open research - London: Wellcome Trust, Bd. 6 (2021), insges. 30 S.;

Riguet, Nathan; Mahul-Mellier, Anne-Laure; Maharjan, Niran; Burtscher, Johannes; Croisier, Marie; Knott, Graham; Hastings, Janna; Patin, Alice; Reiterer, Veronika; Farhan, Hesso; Nasarov, Sergey; Lashue, Hilal A.

Nuclear and cytoplasmic huntingtin inclusions exhibit distinct biochemical composition, interactome and ultrastructural properties
Nature Communications - [London]: Nature Publishing Group UK, Bd. 12 (2021), insges. 27 S. ;
[Imp.fact.: 14.919]

Ristic, Marko; Noack, Benjamin; Hanebeck, Uwe D.
Cryptographically privileged state estimation with Gaussian keystreams
IEEE control systems letters - New York, NY: IEEE, Bd. 6 (2021), S. 602-607;

Schmidt, Johann; Stober, Sebastian
Approaching scheduling problems via a deep hybrid greedy model and supervised learning
IFAC-PapersOnLine/ Internationale Förderung für Automatische Lenkung - Frankfurt: Elsevier, Bd. 54 (2021), 1, S. 805-810;

Schulz, Lars-Christian; Hausheer, David
Towards SCION-enabled IXPs - the SCION peering coordinator
Electronic communications of the EASST - Berlin: Techn. Univ., Bd. 80 (2021), insges. 5 S.;

Shan, Qihao; Mostaghim, Sanaz
Achieving task allocation in swarm intelligence with bi-objective embodied evolution
Swarm intelligence - New York, NY [u.a.]: Springer . - 2021, insges. 24 S. ;
[Imp.fact.: 2.143]

Shan, Qihao; Mostaghim, Sanaz
Discrete collective estimation in swarm robotics with distributed Bayesian belief sharing
Swarm intelligence - New York, NY [u.a.]: Springer . - 2021, insges. 26 S. ;
[Imp.fact.: 2.143]

Steup, Christoph; Beckhaus, Jonathan; Mostaghim, Sanaz
A single-copter UWB-ranging-based localization system extendable to a swarm of drones
Drones - Basel: MDPI, Bd. 5 (2021), 3, insges. 20 S. ;
[Imp.fact.: 5.4]

Weise, Jens; Mostaghim, Sanaz
A scalable many-objective pathfinding benchmark suite
IEEE transactions on evolutionary computation: a publication of the IEEE Neural Networks Council/ Institute of Electrical and Electronics Engineers - New York, NY: IEEE - a publication of the IEEE Neural Networks Council . - 2021 ;
[Imp.fact.: 11.169]

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Nielebock, Sebastian; Blockhaus, Paul; Krüger, Jacob; Ortmeier, Frank
An experimental analysis of graph-distance algorithms for comparing API usages
De.arxiv.org - [S.l.]: Arxiv.org . - 2021, insges. 12 S. ;

BEGUTACHTETE BUCHBEITRÄGE

Anderer, Simon; Scheuermann, Bernd; Mostaghim, Sanaz; Bauerle, Patrick; Beil, Matthias

RMPLib - a library of benchmarks for the role mining problem

Proceedings of the 26th ACM Symposium on Access Control Models and Technologies/ Lobo - New York, NY, United States: Association for Computing Machinery; Lobo, Jorge . - 2021, S. 3-13;

Benecke, Tobias; Mostaghim, Sanaz

Tracking the heritage of genes in evolutionary algorithms

2021 IEEE Congress on Evolutionary Computation: 28 June-1 July 2021, Kraków, Poland : 2021 proceedings - Piscataway, NJ, USA: IEEE . - 2021, S. 1800-1807;

Blesel, Michael; Kuhn, Michael; Squar, Jannek

heimdallr - improving compile time correctness checking for message passing with rust

High Performance Computing - Cham: Springer International Publishing; Jagode, Heike . - 2021, S. 199-211 - (Theoretical Computer Science and General Issues; 12761);

Borgelt, Christian; Braune, Christian; Kruse, Rudolf

Unsicheres, impräzises und unscharfes Wissen

Handbuch der Künstlichen Intelligenz - Berlin: De Gruyter Oldenbourg; Görz, Günther *1947-* . - 2021, S. 279-342;

Buschsieweke, Marian; Günes, Mesut

Application layer security for the IoT

Informatik 2020 - Back to the future: 50. Jahrestagung der Gesellschaft für Informatik vom 28. September - 2. Oktober 2020, virtual - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 1237-1246;

[Tagung: 50. Jahrestagung der Gesellschaft für Informatik, virtual, 28. September bis 2. Oktober 2020]

Dockhorn, Alexander; Mostaghim, Sanaz; Kirst, Martin; Zettwitz, Martin

Multi-objective optimization and decision-making in context steering

IEEE Symposium on Computational Intelligence and Games, CIG - [Piscataway, NJ]: IEEE . - 2021, insges. 8 S.;

Duwe, Kira; Kuhn, Michael

Dissecting self-describing data formats to enable advanced querying of file metadata

SYSTOR 2021 - New York: Association for Computing Machinery - proceedings of the 14th ACM International Systems and Storage Conference : June 14-16, 2021 . - 2021, insges. 7 S.;

Duwe, Kira; Kuhn, Michael

Using ceph's BlueStore as object storage in HPC storage framework

Proceedings of the Workshop on Challenges and Opportunities of Efficient and Performant Storage Systems (CHEOPS) - in conjunction with EuroSys 2021 - New York: ACM; Kuhn, Michael - in conjunction with EuroSys 2021 . - 2021, insges. 6 S.;

Engelhardt, Frank; Günes, Mesut

Combined certificate and resource discovery for dynamically (dis-)aggregating IoT processes

Informatik 2020 - Back to the future: 50. Jahrestagung der Gesellschaft für Informatik vom 28. September - 2. Oktober 2020, virtual - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 1215-1224;

Filax, Marco; Gonschorek, Tim; Ortmeier, Frank

Grocery recognition in the wild - a new mining strategy for metric learning

VISAPP/ VISIGRAPP - [Sétubal]: SCITEPRESS - Science and Technology Publications, Lda.; Farinella, Giovanni Maria . - 2021, S. 498-505;

Filax, Marco; Ortmeier, Frank

On the influence of viewpoint change for metric learning

IAPR International Conference on Machine Vision Applications (MVA) - IEEE . - 2021, insges. 4 S.;

Flügel, Simon; Kleinau, Anna; Neuhaus, Fabian; Glauer, Martin; Hastings, Janna

FOWL - an OWL to FOL translator

CEUR workshop proceedings - Aachen, Germany: RWTH Aachen, Bd. 2969 (2021), insges. 8 S.;

Ghosh, Suhita; Krug, Andreas; Rose, Georg; Stober, Sebastian

Perception-aware losses facilitate CT denoising and artifact removal
2021 IEEE 2nd International Conference on Human-Machine Systems (ICHMS) - IEEE . - 2021, insges. 6 S.;

Gärtner, Kilian; Kwon, Jonghoon; Hausheer, David

SpeedCam - towards efficient flow monitoring for multipath communication
Proceedings of the IM 2021 - 2021 IFIP/IEEE International Symposium on Integrated Network Management/
IFIP/IEEE International Symposium on Integrated Network Management - [Piscataway, NJ]: IEEE . - 2021, S. 860-865;

Günes, Mesut; Zug, Sebastian; König, Matthias

Tools and concepts for communication and networked systems - or: how to build resilient IoT systems?
Informatik 2020 - Back to the future: 50. Jahrestagung der Gesellschaft für Informatik vom 28. September - 2. Oktober 2020, virtual - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 1183-1184;

Hastings, Janna

Scientific ontologies, digital curation and the learning knowledge ecosystem
CEUR workshop proceedings - Aachen, Germany: RWTH Aachen, Bd. 2836 (2021), insges. 9 S.;

Hastings, Janna; Rosenberg Larsen, Rasmus

Integrative paradigms for knowledge discovery in mental health - overcoming the fragmentation of knowledge inherent in disparate theoretical paradigms
Mental Health Informatics - Cham: Springer International Publishing; Tenenbaum, Jessica D. . - 2021, S. 295-316;

Hausheer, David

SCION - a novel internet architecture
RIPE82 - Amsterdam: RIPE Network Coordination Centre . - 2021;

Hausheer, David; Perrig, Adrian

Proposal for a SCION Working Group
RIPE82 - Amsterdam: RIPE Network Coordination Centre . - 2021, insges. 9 S.;

Heumüller, Robert

Learning to boost the efficiency of modern code review
2021 IEEE/ACM 43rd International Conference on Software Engineering: companion proceedings: ICSE-companion 2021 : virtual (originally Madrid, Spain), 25-28 May 2021 : proceedings/ IEEE/ACM International Conference on Software Engineering - Piscataway, NJ: IEEE . - 2021, S. 275-277;

Heumüller, Robert; Nielebock, Sebastian; Ortmeier, Frank

Exploit those code reviews! bigger data for deeper learning
Proceedings of the 29th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering/ Spinellis - New York, NY, United States: Association for Computing Machinery; Spinellis, Diomidis . - 2021, S. 1505-1509;

Javadi, Mahrokh; Mostaghim, Sanaz

Using neighborhood-based density measures for multimodal multi-objective optimization
Evolutionary Multi-Criterion Optimization: 11th International Conference, EMO 2021, Shenzhen, China, March 28-31, 2021, Proceedings - Cham: Springer International Publishing; Ishibuchi, Hisao - 11th International Conference, EMO 2021, Shenzhen, China, March 28-31, 2021, Proceedings . - 2021, S. 335-345 - (Lecture notes in computer science; volume 12654);

Javadi, Mahrokh; Ramirez-Atencia, Cristian; Mostaghim, Sanaz

Combining Manhattan and crowding distances in decision space for multimodal multi-objective optimization problems
Advances in evolutionary and deterministic methods for design, optimization and control in engineering and sciences - Cham: Springer; Gaspar-Cunha, António . - 2021, S. 131-145 - (Computational Methods in Applied Sciences; volume 55);

Javadi, Mahrokh; Zille, Heiner; Mostaghim, Sanaz

The effects of crowding distance and mutation in multimodal and multi-objective optimization problems
Advances in evolutionary and deterministic methods for design, optimization and control in engineering and sciences - Cham: Springer; Gaspar-Cunha, António . - 2021, S. 115-130 - (Computational Methods in Applied Sciences; volume 55);

John, Tony; De Vaere, Piet; Schutijser, Caspar; Perrig, Adrian; Hausheer, David

Linc: low-cost inter-domain connectivity for industrial systems
Proceedings of the SIGCOMM '21 Poster and Demo Sessions/ Chiesa - New York,NY,United States: Association for Computing Machinery; Chiesa, Marco . - 2021, S. 68-70;

John, Tony; Hausheer, David

S3MP - a SCION based secure smart metering platform
Proceedings of the IM 2021 - 2021 IFIP/IEEE International Symposium on Integrated Network Management/ IFIP/IEEE International Symposium on Integrated Network Management - [Piscataway, NJ]: IEEE . - 2021, S. 944-949;

Krieg-Brückner, Bernd; Mossakowski, Till; Codescu, Mihai

Generic ontology design patterns - roles and change over time
Advances in Pattern-Based Ontology Engineering/ Blomqvist - [Erscheinungsort nicht ermittelbar]: IOS Press, Incorporated; Blomqvist, E. . - 2021, S. 25-47 - (Studies on the Semantic Web; Volume 51);

Krähenbühl, Cyrill; Tabaeiaghdaei, Seyedali; Gloor, Christelle; Kwon, Jonghoon; Perrig, Adrian; Hausheer, David; Roos, Dominik

Deployment and scalability of an inter-domain multi-path routing infrastructure
Proceedings of the 17th International Conference on emerging Networking EXperiments and Technologies - New York,NY,United States: Association for Computing Machinery . - 2021, S. 126-140;

Krüger, Thorben; Hausheer, David

Towards an API for the path-aware internet
Proceedings of the ACM SIGCOMM 2021 Workshop on Network-Application Integration - New York,NY,United States: Association for Computing Machinery . - 2021, S. 68-72;

Kuhn, Michael; Duwe, Kira

Coupling storage systems and self-describing data formats for global metadata management
2020 International Conference on Computational Science and Computational Intelligence/ CSCI - Piscataway, NJ: IEEE . - 2021;

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

Automated and explainable ontology extension based on deep learning - a case study in the chemical domain
CEUR workshop proceedings - Aachen, Germany: RWTH Aachen, Bd. 2998 (2021), insges. 15 S.;

Mostaghim, Sanaz; Mai, Sebastian

Kooperation mittels Schwarmintelligenz
Zusammenwirken von natürlicher und künstlicher Intelligenz - Wiesbaden: Springer VS; Haux, Reinhold *1953-
. - 2021, S. 55-69;

Nielebock, Sebastian; Blockhaus, Paul; Krüger, Jacob; Ortmeier, Frank

An experimental analysis of graph-distance algorithms for comparing API usages
21th IEEE International Working Conference on Source Code Analysis & Manipulation (SCAM)/ IEEE International Working Conference on Source Code Analysis and Manipulation - Piscataway, NJ: IEEE . - 2021, S. 214-225;

Nielebock, Sebastian; Blockhaus, Paul; Krüger, Jacob; Ortmeier, Frank

AndroidCompass - a dataset of android compatibility checks in code repositories
2021 IEEE/ACM 18th International Conference on Mining Software Repositories/ IEEE/ACM International Conference on Mining Software Repositories - Piscataway, NJ: IEEE . - 2021, S. 535-539;

Nikoukar, Ali; Raza, Saleem; Rao, Tharakeswara; Günes, Mesut; Dezfouli, Behnam

Service migrations in TSCH network using wireless channel estimation and prediction
Informatik 2020 - Back to the future - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 1257-1266;

Salgotra, Rohit; Moshaiov, Amiram; Seidelmann, Thomas; Fischer, Dominik; Mostaghim, Sanaz

Optimal control policies to address the pandemic health-economy dilemma
2021 IEEE Congress on Evolutionary Computation: 28 June-1 July 2021, Kraków, Poland : 2021 proceedings - Piscataway, NJ, USA: IEEE . - 2021, S. 720-727;

Tenenbaum, Elena; Ranallo, Piper A.; Hastings, Janna

Informatics technologies for the acquisition of psychological, behavioral, interpersonal, social and environmental data
Mental Health Informatics - Cham: Springer International Publishing; Tenenbaum, Jessica D. . - 2021, S. 217-234;

Weikert, Dominik; Steup, Christoph; Mostaghim, Sanaz

Enhancing resilience in IoT networks using organic computing
Informatik 2020 - Back to the future - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 1205-1214;

Weise, Jens; Mostaghim, Sanaz

Many-objective pathfinding based on Fréchet similarity metric
Evolutionary Multi-Criterion Optimization: 11th International Conference, EMO 2021, Shenzhen, China, March 28-31, 2021, Proceedings - Cham: Springer International Publishing; Ishibuchi, Hisao - 11th International Conference, EMO 2021, Shenzhen, China, March 28-31, 2021, Proceedings . - 2021, S. 375-386 - (Lecture notes in computer science; volume 12654);

Zhao, Haibin; Funk, Christopher; Noack, Benjamin; Hanebeck, Uwe; Beigl, Michael

Kalman filtered compressive sensing using pseudo-measurements
2021 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI 2021) - Karlsruhe, 2021, paper 66;

Zille, Heiner; Mostaghim, Sanaz; Evrard, Fabien; Wachem, Berend

Unit-aware multi-objective genetic programming for the prediction of the stokes flow around a sphere
Proceedings of the Genetic and Evolutionary Computation Conference Companion/ Chicano - New York, NY, United States: Association for Computing Machinery; Chicano, Francisco . - 2021, S. 327-328;

HERAUSGEBERSCHAFTEN

Balis, Bartosz; B. Heras, Dora; Antonelli, Laura; Bracciali, Andrea; Gruber, Thomas; Hyun-Wook, Jin; Kuhn, Michael; Scott, Stephen L.; Unat, Didem; Wyrzykowski, Roman

Euro-Par 2020: Parallel Processing Workshops - Euro-Par 2020 International Workshops, Warsaw, Poland, August 24-25, 2020, Revised Selected Papers
Cham: Imprint: Springer, 2021., 1st ed. 2021., 1 Online-Ressource(XV, 358 p. 110 illus., 99 illus. in color.) - (Springer eBook Collection; Theoretical Computer Science and General Issues; 12480);

Haux, Reinhold; Gahl, Klaus; Jipp, Meike; Kruse, Rudolf; Richter, Otto

Zusammenwirken von natürlicher und künstlicher Intelligenz
Wiesbaden: Springer VS, 2021, 1 Online-Ressource (XV, 246 Seiten), Illustrationen, Diagramme - (Springer eBook Collection);

Kuhn, Michael; Duwe, Kira; Acquaviva, Jean-Thomas; Chasapis, Konstantinos; Boukhobza, Jalil

Proceedings of the Workshop on Challenges and Opportunities of Efficient and Performant Storage Systems (CHEOPS) - in conjunction with EuroSys 2021
New York: ACM, 2021, 1 Online-Ressource;
Kongress: Workshop on Challenges and Opportunities of Efficient and Performant Storage Systems (virtual : 2021.04.)

NICHT BEGUTACHTETE BUCHBEITRÄGE

Dockhorn, Alexander; Saxton, Chris; Kruse, Rudolf

Association rule mining for unknown video games

Fuzzy Approaches for Soft Computing and Approximate Reasoning: Theories and Applications: Dedicated to Bernadette Bouchon-Meunier - Cham: Springer International Publishing, 2021; Lesot, Marie-Jeanne . - 2021, S. 257-270 - (Studies in fuzziness and soft computing; 394);

Perschewski, Jan-Ole; Nguyen, Tran Tuan; Spehr, Jens; Krüsemann, Jonas; Zug, Sebastian; Kruse, Rudolf

Multi-source fusion using neural networks and genetic algorithms towards ego-lane estimation

Recent Developments and the New Direction in Soft-Computing Foundations and Applications: Selected Papers from the 7th World Conference on Soft Computing, May 29-31, 2018, Baku, Azerbaijan - Cham: Springer International Publishing, 2021; Shahbazova, Shahnaz N. . - 2021, S. 117-130 - (Studies in fuzziness and soft computing; 393);

[Konferenz: 7th World Conference on Soft Computing, Baku, Azerbaijan, May 29-31, 2018]

DISSERTATIONEN

Andonov, Petar; Findeisen, Rolf [AkademischeR BetreuerIn]; Ortmeier, Frank [AkademischeR BetreuerIn]

Guaranteed set-based controller design for hybrid dynamical systems

Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (II, 121 Seiten, 7,57 MB), Illustrationen;

Bartashevich, Palina; Mostaghim, Sanaz [AkademischeR BetreuerIn]

Decision-making algorithms - collective, social, and individual learning

Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (iv, 171 Seiten, 15,77 MB), Illustrationen, Diagramme;

Müller, Veit; Steinmann, Ulrike [AkademischeR BetreuerIn]; Zug, Sebastian [AkademischeR BetreuerIn]; Elkmann, Norbert [AkademischeR BetreuerIn]

Towards an in-hand object monitoring and object pose estimation in robotics featuring compliant, high-resolution tactile sensors

Magdeburg, 2021, XXII, 168 Seiten, Illustrationen, Diagramme, 30 cm

1. LEITUNG

Prof. Dr. Graham Horton (geschäftsführender Leiter)

Prof. Dr. Holger Theisel

Prof. Dr. Stefan Schirra

Rita Freudenberg

Dr. Volkmar Hinz

Dr. Christian Rössl

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Allgaier, Mareen; Neyazi, Belal; Preim, Bernhard; Saalfeld, Sylvia

Distance and force visualisations for improved simulation of intracranial aneurysm clipping

International journal of computer assisted radiology and surgery: a journal for interdisciplinary research, development and applications of image guided diagnosis and therapy - Berlin: Springer, 2006, Bd. 16 (2021), 8, S. 1297-1304;

[Imp.fact.: 2.924]

Berg, Philipp; Behrendt, Benjamin; Voß, Samuel; Beuing, Oliver; Neyazi, Belal; Sandalcioglu, I. Erol; Preim, Bernhard; Saalfeld, Sylvia

VICTORIA - Virtual neck Curve and True Ostium Reconstruction of Intracranial Aneurysms

Cardiovascular engineering and technology - New York, NY: Springer, 2010, Bd. 12 (2021), 4, S. 454-465;

[Imp.fact.: 2.495]

Boedecker, Christian; Huettl, Florentine; Saalfeld, Patrick; Paschold, Markus; Kneist, Werner; Baumgart, Janine; Preim, Bernhard; Hansen, Christian; Lang, Hauke; Huber, Tobias

Using virtual 3D-models in surgical planning: workflow of an immersive virtual reality application in liver surgery

Langenbeck's archives of surgery - Berlin: Springer, Bd. 406 (2021), 3, S. 911-915;

[Imp.fact.: 2.184]

Chheang, Vuthea; Saalfeld, Patrick; Joeres, Fabian; Boedecker, Christian; Huber, Tobias; Huettl, Florentine; Lang, Hauke; Preim, Bernhard; Hansen, Christian

A collaborative virtual reality environment for liver surgery planning

Computers & graphics - Amsterdam [u.a.]: Elsevier Science, Bd. 99 (2021), S. 234-246;

[Imp.fact.: 1.936]

Dünnwald, Max; Ernst, Philipp; Düzel, Emrah; Tönnies, Klaus; Betts, Matthew J.; Oeltze-Jafra, Steffen

Fully automated deep learning-based localization and segmentation of the locus coeruleus in aging and Parkinsons disease using neuromelanin-sensitive MRI

International journal of computer assisted radiology and surgery - Berlin: Springer, 2006, Bd. 16 (2021), 12, S. 2129-2135;

[Imp.fact.: 2.924]

Eulzer, Pepe; Meuschke, Monique; Klingner, Carsten; Lawonn, Kai

Visualizing carotid blood flow simulations for stroke prevention

Computer graphics forum - Oxford: Wiley-Blackwell, Bd. 40 (2021), 3, S. 435-446;

[Imp.fact.: 2.078]

Gaidzik, Franziska; Pathiraja, Sahani; Saalfeld, Sylvia; Stucht, Daniel; Speck, Oliver; Thévenin, Dominique; Janiga, Gábor

Hemodynamic data assimilation in a subject-specific circle of Willis geometry
Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), 3, S. 643-651;
[Imp.fact.: 3.649]

Gießler, Fina; Thormann, Maximilian; Preim, Bernhard; Behme, Daniel; Saalfeld, Sylvia

Facial feature removal for anonymization of neurological image data
Current directions in biomedical engineering - Berlin: De Gruyter, 2015, Bd. 7 (2021), 1, S. 130-134;

Gillmann, Christina; Smit, Noeska N.; Gröller, Eduard; Preim, Bernhard; Vilanova, Anna; Wischgoll, Thomas

Ten open challenges in medical visualization
IEEE computer graphics and applications/ Institute of Electrical and Electronics Engineers - New York, NY [u.a.]:
IEEE, Bd. 41 (2021), 5, S. 7-15;
[Imp.fact.: 2.088]

Heinrich, Florian; Apilla, Vikram; Lawonn, Kai; Hansen, Christian; Preim, Bernhard; Meuschke, Monique

Estimating depth information of vascular models - a comparative user study between a virtual reality and a desktop application
Computers & graphics - Amsterdam [u.a.]: Elsevier Science, Bd. 98 (2021), S. 210-217;
[Imp.fact.: 1.351]

Hille, Georg; Brokmann, Felicitas; Hensen, Bennet; Alpers, Julian; Wacker, Frank; Saalfeld, Sylvia

A novel tool for monitoring and assessing the outcome of thermal ablations of hepatic lesions
Current directions in biomedical engineering - Berlin: De Gruyter, Bd. 7 (2021), 1, insges. 4 S.;

Huettl, Florentine; Saalfeld, Patrick; Hansen, Christian; Preim, Bernhard; Poplawski, Alicia; Kneist, Werner; Lang, Hauke; Huber, Tobias

Virtual reality and 3D printing improve preoperative visualization of 3D liver reconstructions-results from a preclinical comparison of presentation modalities and users preference
Annals of translational medicine: ATM : an open access journal covering all subspecialties of translational medicine - Shatin, NT: AME Publishing Company - ATM : an open access journal covering all subspecialties of translational medicine . - 2021, insges. 11 S. ;
[Imp.fact.: 3.297]

Joeres, Fabian; Heinrich, Florian; Schott, Danny; Hansen, Christian

Towards natural 3D interaction for laparoscopic augmented reality registration
Computer methods in biomechanics and biomedical engineering: imaging & visualization - Abingdon: Taylor & Francis, Bd. 9 (2020), 4, S. 384-391, 2021;

Joeres, Fabian; Mielke, Tonia; Hansen, Christian

Laparoscopic augmented reality registration for oncological resection site repair
International journal of computer assisted radiology and surgery: a journal for interdisciplinary research, development and applications of image guided diagnosis and therapy - Berlin: Springer, Bd. 16 (2021), 9, S. 1577-1586;
[Imp.fact.: 2.924]

Mayer, Benjamin; Lawonn, Kai; Donnay, K.; Preim, Bernhard; Meuschke, Monique

VEHICLE: Validation and exploration of the hierarchical integration of conflict event data
Computer graphics forum - Oxford: Wiley-Blackwell, Bd. 40 (2021), 3, S. 1-12;
[Imp.fact.: 2.078]

Meuschke, Monique; Voß, Samuel; Gaidzik, Franziska; Preim, Bernhard; Lawonn, Kai

Skyscraper visualization of multiple time-dependent scalar fields on surfaces
Computers & graphics - Amsterdam [u.a.]: Elsevier Science, Bd. 99 (2021), S. 22-42;
[Imp.fact.: 1.936]

Meyer, Anneke; Chlebus, Grzegorz; Rak, Marko; Schindele, Daniel; Schostak, Martin; Ginneken, Bram; Schenk, Andrea; Meine, Hans; Hahn, Horst Karl; Schreiber, Andreas; Hansen, Christian
Anisotropic 3D Multi-Stream CNN for Accurate Prostate Segmentation from Multi-Planar MRI
Computer methods and programs in biomedicine - Amsterdam: Elsevier, Bd. 200 (2021);
[Imp.fact.: 5.428]

Meyer, Anneke; Ghosh, Suhita; Schindele, Daniel; Schostak, Martin; Stober, Sebastian; Hansen, Christian; Rak, Marko
Uncertainty-aware temporal self-learning (UATS) - semi-supervised learning for segmentation of prostate zones and beyond
Artificial intelligence in medicine: AIM - Amsterdam [u.a.]: Elsevier Science - AIM, Bd. 116 (2021);
[Imp.fact.: 4.383]

Meyer, Anneke; Mehrtash, Alireza; Rak, Marko; Bashkanov, Oleksii; Langbein, Bjoern; Ziaei, Alireza; Kibel, Adam S.; Tempany, Clare M.; Hansen, Christian; Tokuda, Junichi
Domain adaptation for segmentation of critical structures for prostate cancer therapy
Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 11 (2021), S. 1-14, insges. 14 S.;
[Imp.fact.: 4.379]

Mistelbauer, Gabriel; Rössl, Christian; Bäuml, K.; Preim, Bernhard; Fleischmann, D.
Implicit modeling of patient-specific aortic dissections with elliptic fourier descriptors
Computer graphics forum - Oxford: Wiley-Blackwell, Bd. 40 (2021), 3, S. 423-434;
[Imp.fact.: 2.078]

Mittenentzwei, Sarah; Beuing, Oliver; Neyazi, Belal; Sandalcioglu, I. Erol; Larsen, Naomi; Preim, Bernhard; Saalfeld, Sylvia
Definition and extraction of 2D shape indices of intracranial aneurysm necks for rupture risk assessment
International journal of computer assisted radiology and surgery - Berlin: Springer, 2006, Bd. 16 (2021), 11, S. 1977-1984;
[Imp.fact.: 2.924]

Niemann, Annika; Talagini, Anitha; Kandapagari, Pavan; Preim, Bernhard; Saalfeld, Sylvia
Tissue segmentation in histologic images of intracranial aneurysm wall
Interdisciplinary Neurosurgery - Amsterdam [u.a.]: Elsevier, Bd. 26 (2021), insges. 4 S.;

Niemann, Annika; Voß, Samuel; Tulamo, Riikka; Weigand, Simon; Preim, Bernhard; Berg, Philipp; Saalfeld, Sylvia
Complex wall modeling for hemodynamic simulations of intracranial aneurysms based on histologic images
International journal of computer assisted radiology and surgery - Berlin: Springer, Bd. 16 (2021), 4, S. 597-607;
[Imp.fact.: 2.924]

Sabieleish, Muhannad; Heryan, Katarzyna; Boese, Axel; Hansen, Christian; Friebe, Michael; Illanes, Alfredo
Study of needle punctures into soft tissue through audio and force sensing - can audio be a simple alternative for needle guidance?
International journal of computer assisted radiology and surgery - Berlin: Springer, 2006, Bd. 16 (2021), 10, S. 1683-1697;
[Imp.fact.: 2.924]

Schneider, Lisa; Niemann, Annika; Beuing, Oliver; Preim, Bernhard; Saalfeld, Sylvia
MedmeshCNN - enabling meshcnn for medical surface models
Computer methods and programs in biomedicine - Amsterdam: Elsevier, Bd. 210 (2021);
[Imp.fact.: 5.428]

Schwenderling, Lovis; Hansen, Christian; Heinrich, Florian
AR visualization of automated access path planning for percutaneous interventions
Current directions in biomedical engineering - Berlin: De Gruyter, Bd. 7 (2021), 1, insges. 5 S.;

Spitz, Lena; Swiatek, Vanessa M.; Neyazi, Belal; Sandalcioglu, I. Erol; Preim, Bernhard; Saalfeld, Sylvia

An interactive tool for identifying patient subgroups based on arbitrary characteristics for medical research
Current directions in biomedical engineering - Berlin: De Gruyter, 2015, Bd. 7 (2021), 1, S. 43-46;

Sprengel, Ulrike; Saalfeld, Patrick; Stahl, Janneck; Mittenentzwei, Sarah; Drittel, Moritz; Behrendt, Benjamin; Kaneko, Naoki; Behme, Daniel; Berg, Philipp; Preim, Bernhard; Saalfeld, Sylvia

Virtual embolization for treatment support of intracranial AVMs using an interactive desktop and VR application
International journal of computer assisted radiology and surgery - Berlin: Springer, 2006, Bd. 16 (2021), 12, S. 2119-2127;

[Imp.fact.: 2.924]

Swiatek, Vanessa M.; Neyazi, Belal; Roa, Jorge A.; Zanaty, Mario; Samaniego, Edgar A.; Ishii, Daizo; Lu, Yongjun; Sandalcioglu, I. Erol; Saalfeld, Sylvia; Berg, Philipp; Hasan, David M.

Aneurysm wall enhancement is associated with decreased intrasaccular IL-10 and morphological features of instability

Neurosurgery - Oxford: Oxford University Press, Bd. 89 (2021), 4, S. 664-671;

[Imp.fact.: 4.654]

Tack, Alexander; Preim, Bernhard; Zachow, Stefan

Fully automated assessment of knee alignment from full-leg X-rays employing a YOLOv4 and Resnet Landmark regression Algorithm (YARLA) - data from the osteoarthritis initiative

Computer methods and programs in biomedicine: an international journal devoted to the development, implementation and exchange of computing methodology and software systems in biomedical research and medical practice - Amsterdam: Elsevier - an international journal devoted to the development, implementation and exchange of computing methodology and software systems in biomedical research and medical practice, Bd. 205 (2021);

[Imp.fact.: 3.632]

WEI, Wei; Haishan, Xu; Alpers, Julian; Rak, Marko; Hansen, Christian

A deep learning approach for 2D ultrasound and 3D CT/MR image registration in liver tumor ablation

Computer methods and programs in biomedicine: an international journal devoted to the development, implementation and exchange of computing methodology and software systems in biomedical research and medical practice - Amsterdam: Elsevier - an international journal devoted to the development, implementation and exchange of computing methodology and software systems in biomedical research and medical practice, Bd. 206 (2021);

[Imp.fact.: 3.632]

Wagner, Sebastian; Belger, Julia; Joeres, Fabian; Thöne-Otto, Angelika; Hansen, Christian; Preim, Bernhard; Saalfeld, Patrick

iVRoad - immersive virtual road crossing as an assessment tool for unilateral spatial neglect

Computers & graphics - Amsterdam [u.a.]: Elsevier Science, Bd. 99 (2021), S. 70-82;

[Imp.fact.: 1.936]

Wang, Lihui; Marek, Nico; Steffen, Johannes; Pollmann, Stefan

Perceptual learning of object recognition in simulated retinal implant perception - the effect of video training

Translational Vision Science & Technology - Rockville, Md.: ARVO, Bd. 10 (2021), 10, insges. 11 S.;

[Imp.fact.: 3.283]

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Bashkanov, Oleksii; Meyer, Anneke; Schindele, Daniel; Schostak, Martin; Tönnies, Klaus; Hansen, Christian; Rak, Marko

Learning multi-modal volumetric prostate registration with weak inter-subject spatial correspondence

De.arxiv.org - [S.l.]: Arxiv.org, 1991 . - 2021, insges. 5 S.;

Chatterjee, Soumick; Sciarra, Alessandro; Dünwald, Max; Mushunuri, Raghava Vinaykanth; Podishetti, Ranadheer; Rao, Rajatha Nagaraja; Gopinath, Geetha Doddapaneni; Oeltze-Jafra, Steffen; Speck, Oliver; Nürnberger, Andreas

ShuffleUNet: super resolution of diffusion-weighted MRIs using deep learning

De.arxiv.org - [S.I.]: Arxiv.org, 1991 . - 2021, S. 1-5;

BEGUTACHTETE BUCHBEITRÄGE

Alpers, Julian; Reimert, Daniel L.; Rötzer, Maximilian; Gerlach, Thomas; Gutberlet, Marcel; Wacker, Frank; Hensen, Bennet; Hansen, Christian

2.5D thermometry maps for MRI-guided tumor ablation

Medical Image Computing and Computer Assisted Intervention MICCAI 2021 - Cham: Springer International Publishing; de Bruijne, Marleen . - 2021, S. 311-320 - (Lecture notes in computer science; volume 12904);

Apilla, Vikram; Behrendt, Benjamin; Lawonn, Kai; Preim, Bernhard; Meuschke, Monique

Automatic animations to analyze blood flow data

VCBM 2021 - Eurographics Ass. . - 2021, S. 101-105;

Behrendt, Benjamin; Engelke, Wito; Berg, Philipp; Beuing, Oliver; Hotz, Ingrid; Preim, Bernhard; Saalfeld, Sylvia

Visual exploration of intracranial aneurysm blood flow adapted to the clinical researcher

EuroVis 2021 - 23rd Eurographics Conference on Visualization 2021 : Zurich, Switzerland (virtual conference), June 14 18, 2021 : Dirk Bartz Prize 2021 - Eurographics Association, 2021; Oeltze-Jafra, Steffen - 23rd Eurographics Conference on Visualization 2021 : Zurich, Switzerland (virtual conference), June 14 – 18, 2021 : Dirk Bartz Prize 2021 . - 2021, S. 13-17;

Behrendt, Benjamin; Pleuss-Engelhardt, David; Gutberlet, Matthias; Preim, Bernhard

2.5D geometric mapping of aortic blood flow data for cohort visualization

VCBM 2021 - Eurographics Ass. . - 2021, S. 92-100;

Chheang, Vuthea; Apilla, Vikram; Saalfeld, Patrick; Boedecker, Christian; Huber, Tobias; Huettl, Florentine; Lang, Hauke; Preim, Bernhard; Hansen, Christian

Collaborative VR for liver surgery planning using wearable data gloves - an interactive demonstration

2021 IEEE Conference on Virtual Reality and 3D User Interfaces: abstracts and workshops (VRW) Piscataway, NJ\$IEEE - New York: IEEE - abstracts and workshops (VRW) Piscataway, NJ\$IEEE . - 2021;

Gabele, Mareike; Fischer, Virve Tuulia; Steinbrügge, Marie; Thiemke, Denise; Husslein, Steffi; Hansen, Christian

Potentials of a web-based gamification guidance for knowledge transfer between research and industry

Extended Abstracts of the 2021 Annual Symposium on Computer-Human Interaction in Play - New York, NY, United States: Association for Computing Machinery . - 2021, S. 301-307;

Gabele, Mareike; Weicker, Juliane; Wagner, Sebastian; Thoms, Andrea; HuBlein, Steffi; Hansen, Christian

Effects and ways of tailored gamification in software-based training in cognitive rehabilitation

Proceedings of the 29th ACM Conference on User Modeling, Adaptation and Personalization/ Masthoff - New York, NY, United States: Association for Computing Machinery; Masthoff, Judith . - 2021, S. 158-168;

Garrison, Laura; Meuschke, Monique; Fairman, Jennifer; Smit, Noeska N.; Preim, Bernhard; Bruckner, Stefan

An exploration of practice and preferences for the visual communication of biomedical processes

VCBM 2021 - Eurographics Ass. . - 2021, S. 2-12;

Joeres, Fabian; Black, David; Razavizadeh, Seyedsina; Hansen, Christian

Audiovisual AR concepts for laparoscopic subsurface structure navigation

Proceedings of Graphics Interface 2021 - Toronto, Canada: Canadian Human-Computer Communications Society; Savva, Manolis . - 2021, S. 224-230;

Kuzhipathalil, Adarsh; Thomas, Anto; Chand, Keerthana; Gomes Ataide, Elmer Jetto; Link, Alexander; Niemann, Annika; Saalfeld, Sylvia; Friebe, Michael; Ziegler, Jens

A machine learning approach towards fatty liver disease detection in liver ultrasound images

Bildverarbeitung für die Medizin 2021: Proceedings, German Workshop on Medical Image Computing, Regensburg, March 7-9, 2021, Palm, Christoph *1971-* - Wiesbaden: Springer Vieweg . - 2021, S. 86-91;

Müller, Juliane; Cypko, Mario A.; Oeser, Alexander; Stöhr, Matthäus; Zebralla, Veit; Schreiber, Stefanie; Wiegand, Susanne; Dietz, Andreas; Oeltze-Jafra, Steffen

Visual assistance in clinical decision support

EuroVis 2021 - 23rd Eurographics Conference on Visualization 2021 : Zurich, Switzerland (virtual conference), June 14 18, 2021 : Dirk Bartz Prize 2021: 23rd Eurographics Conference on Visualization 2021 : Zurich, Switzerland (virtual conference), June 14 18, 2021 : Dirk Bartz Prize 2021 - Eurographics Association, 2021; Oeltze-Jafra, Steffen - 23rd Eurographics Conference on Visualization 2021 : Zurich, Switzerland (virtual conference), June 14 – 18, 2021 : Dirk Bartz Prize 2021 . - 2021, S. 7-11;

Niemann, Annika; Schneider, Lisa; Preim, Bernhard; Voß, Samuel; Berg, Philipp; Saalfeld, Sylvia

Towards deep learning-based wall shear stress prediction for intracranial aneurysms

Bildverarbeitung für die Medizin 2021, Palm, Christoph *1971-* - Wiesbaden: Springer Vieweg . - 2021, S. 105-110;

Ostendorf, Kai; Mastrodicasa, Domenico; Bäumlner, Kathrin; Codari, Marina; Turner, Valery; Willemink, Martin J.; Fleischmann, Dominik; Preim, Bernhard; Mistelbauer, Gabriel

Shading style assessment for vessel wall and lumen visualization

VCBM 2021 - Eurographics Ass. . - 2021, S. 107-111;

Preim, Bernhard; Saalfeld, Patrick; Hansen, Christian

Virtual and augmented reality for educational anatomy

Digital Anatomy: Applications of Virtual, Mixed and Augmented Reality - Cham: Springer International Publishing; Uhl, Jean-François - Applications of Virtual, Mixed and Augmented Reality . - 2021, S. 299-324;

Saalfeld, Patrick; Böttcher, Claudia; Klink, Fabian; Preim, Bernhard

VR system for the restoration of broken cultural artifacts on the example of a funerary monument

2021 IEEE Conference on Virtual Reality and 3D User Interfaces: 27 March - 3 April 2021, virtuell event : proceedings - New York: IEEE - 27 March - 3 April 2021, virtuell event : proceedings . - 2021;

Schott, Danny; Saalfeld, Patrick; Schmidt, Gerd; Joeres, Fabian; Boedecker, Christian; Huettl, Florentine; Lang, Hauke; Huber, Tobias; Preim, Bernhard; Hansen, Christian

A VR/AR environment for multi-user liver anatomy education

2021 IEEE Conference on Virtual Reality and 3D User Interfaces: 27 March - 3 April 2021, virtuell event : proceedings - New York: IEEE - 27 March - 3 April 2021, virtuell event : proceedings . - 2021;

Schreiter, Josefine; Joeres, Fabian; March, Christine; Pech, Maciej; Hansen, Christian

Application potential of robot-guided ultrasound during CT-guided interventions

Simplifying Medical Ultrasound - Cham: Springer International Publishing; Noble, J. Alison . - 2021, S. 116-125 - (Lecture notes in computer science; volume 12967);

Sprengel, Ulrike; Saalfeld, Patrick; Mittenentzwei, Sarah; Drittel, Moritz; Neyazi, Belal; Berg, Philipp; Preim, Bernhard; Saalfeld, Sylvia

Interactive visualization of cerebral blood flow for arteriovenous malformation embolisation

Bildverarbeitung für die Medizin 2021, Palm, Christoph *1971-* - Wiesbaden: Springer Vieweg . - 2021, S. 36-41;

HERAUSGEBERSCHAFTEN

Oeltze-Jafra, Steffen; Raidou, Renata Georgia

EuroVis 2021 - 23rd Eurographics Conference on Visualization 2021 : Zurich, Switzerland (virtual conference), June 14 18, 2021 : Dirk Bartz Prize 2021
Eurographics Association, 2021, 1 Elektronische Ressource;
Kongress: Eurographics Conference on Visualization 23 (Zurich : 2021.06.14-18)

NICHT BEGUTACHTETE BUCHBEITRÄGE

Chatterjee, Soumick; Sarasaen, Chompunuch; Sciarra, Alessandro; Breitkopf, Mario; Oeltze-Jafra, Steffen; Nürnberger, Andreas; Speck, Oliver

Going beyond the image space - undersampled MRI reconstruction directly in the k-space using a complex valued residual neural network
ResearchGATE - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

Chatterjee, Soumick; Sciarra, Alessandro; Dünnwald, Max; Agrawal, Shubham; Tummala, Pavan; Setlur, Disha Kishore; Kalra, Aman; Jauhari, Aishwarya; Oeltze-Jafra, Steffen; Speck, Oliver; Nürnberger, Andreas

Unsupervised reconstruction based anomaly detection using a Variational Auto Encoder
ResearchGATE: scientific neetwork ; the leading professional network for scientists - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

Ernst, Philipp; Rak, Marko; Hansen, Christian; Rose, Georg; Nürnberger, Andreas

Trajectory upsampling for sparse conebeam projections using convolutional neural networks
Proceedings of the 16th Virtual International Meeting on Fully 3D Image Reconstruction in Radiology and Nuclear Medicine\$hxhEditors: Georg Schramm, Ahmadreza Rezaei, Kris Thielemans and Johan Nuyts - arXiv; Schramm, Georg . - 2021, S. 285-288;

Nath, Vishwesh; Pizzolato, Marco; Palombo, Marco; Gyori, Noemi; Schilling, Kurt; Hansen, Colin; Yang, Qi; Kanakaraj, Praitayini; Landman, Bennett; Chatterjee, Soumick; Sciarra, Alessandro; Dünnwald, Max; Oeltze-Jafra, Steffen; Nürnberger, Andreas; Speck, Oliver; Pieciak, Tomasz; Baranek, Marcin; Bartocha, Kamil; Ciupek, Dominika; Bogusz, Fabian; Hamidinekoo, Azam; Afzali, Maryam; Lin, Harry; Alexander, Danny C.; Lan, Haoyu; Sepehrband, Farshid; Liang, Zifei; Wu, Tung-Yeh; Su, Ching-Wei; Wu, Qian-Hua; Liu, Zi-You; Chao, Yi-Ping; Albay, Enes; Unal, Gozde; Pylypenko, Dmytro; Ye, Xinyu; Zhang, Fan; Hutter, Jana

Resolving to super resolution multi-dimensional diffusion imaging (Super-MUDI)
ResearchGATE: scientific neetwork ; the leading professional network for scientists - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

ABSTRACTS

Allgaier, Mareen; Neyazi, Belal; Preim, Bernhard; Saalfeld, Sylvia

Visualisations for improved navigation and assessment in aneurysm clipping simulations
5th Conference on Image-Guided Interventions (IGIC)/ Conference on Image-Guided Interventions - Magdeburg: [Otto-von-Guericke University Magdeburg], 2021; Hansen, Christian *1980-* . - 2021, S. 41-42;

Alpers, Julian; Reimert, Daniel; Rötzer, Maximilian; Gerlach, Thomas; Gutberlet, Marcel; Wacker, Frank; Hensen, Bennet; Hansen, Christian

Volumetric heat map reconstruction for minimally invasive cancer treatment
5th Image-Guided Interventions Conference (IGIC) - Magdeburg, 2021; Hansen, Christian . - 2021, S. 39-40;

Aruci, Merita; Dünnwald, Max; Schreiber, Frank; Sciarra, Alessandro; Maass, Anne; Schreiber, Stefanie; Oeltze-Jafra, Steffen

Challenging cases for WMH segmentation comparatively processed by seven automated methods
Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), Suppl. 1, S. S40-41;
[Imp.fact.: 3.649]

Behme, Daniel; Reinitz, Ira; Beuing, Oliver; Thormann, Maximilian; Neyazi, Belal; Sandalcioglu, I. Erol; Mpotsaris, Anastasios; Preim, Bernhard; Berg, Philipp; Saalfeld, Sylvia

Strukturiertes Reporting geometrischer und hämodynamischer Aneurysmaeigenschaften zur Stratifikation des Rupturrisikos

Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), Suppl. 1, S. S18-S19;

[Imp.fact.: 3.649]

Behme, Daniel; Sprengel, Ulrike; Stahl, Jonathan; Saalfeld, Patrick; Behrendt, Benjamin; Thormann, Maximilian; Mpotsaris, Anastasios; Preim, Bernhard; Berg, Philipp; Saalfeld, Sylvia

Virtuelle AVM Embolisation - ein Tool zur Verbesserung der Behandlungsplanung

Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), Suppl. 1, S. S25;

[Imp.fact.: 3.649]

Behme, Daniel; Voß, Samuel; Korte, Jana; Thormann, Maximilian; Mpotsaris, Anastasios; Saalfeld, Sylvia; Janiga, Gábor; Berg, Philipp

Identifikation stabiler und instabiler intrakranieller Aneurysmen mittels bildbasierter Blutflusssimulation

Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), Suppl. 1, S. S55-S56;

[Imp.fact.: 3.649]

Kwapik, Remigiusz; Moritz, Julia; Hensen, Bennet; Janny, Benedikt; Pannicke, Enrico; Schott, Danny; Rose, Georg; Speck, Oliver; Wacke, Frank

Virtual reality-based usability laboratory for interventional MR applications

5th Conference on Image-Guided Interventions (IGIC)/ Conference on Image-Guided Interventions - Magdeburg:

[Otto-von-Guericke University Magdeburg], 2021; Hansen, Christian *1980-* . - 2021, S. 51-52;

Mittentzwei, Sarah; Sciarra, Alessandro; Lüsebrink-Rindsland, Jann Falk Silvester; Aruci, Merita; Ulbrich, Philipp; Schreiber, Frank; Lemke, Andreas; Meuschke, Monique; Preim, Bernhard; Schreiber, Stefanie; Oeltze-Jafra, Steffen

Visual analysis of brain lesion load in patients with cerebral small vessel disease

Clinical neuroradiology - München: Urban & Vogel, 2006, Bd. 31 (2021), Suppl. 1, S. S12;

[Imp.fact.: 3.649]

Reimert, Daniel; Alpers, Julian; Gutberlet, Marcel; Gerlach, Thomas; Rötzer, Maximilian; Wacker, Frank; Hansen, Christian; Hensen, Bennet

Efficient modification of the 2.5D thermometry by locating the best trade-off between spatial and temporal resolution

5th Image-Guided Interventions Conference (IGIC) - Magdeburg, 2021; Hansen, Christian . - 2021, S. 17-18;

Will, Maximilian; Alpers, Julian; Gerlach, Thomas; Gutberlet, Marcel; Wacker, Frank; Hensen, Bennet; Hansen, Christian

In-vitro and in-silico investigation for image-guided microwave ablation

5th Image-Guided Interventions Conference (IGIC) - Magdeburg, 2021; Hansen, Christian . - 2021, S. 53-54;

HABILITATIONEN

Krull, Claudia; Horton, Graham [AkademischeR BetreuerIn]

Virtual stochastic sensors - formal background and example applications : reconstructing the behavior of partially observable discrete and hybrid stochastic systems

Düren: Shaker Verlag, 2021, xvi, 183 Seiten, Illustrationen, Diagramme, 21 cm, 299 g - (Berichte aus der Informatik)

DISSERTATIONEN

Alemzadeh, Shiva; Preim, Bernhard [AkademischeR BetreuerIn]

Visual analytics of epidemiological and multi-omics data

Magdeburg, 2021, x, 132 Seiten, Illustrationen, Diagramme, 30 cm

Gerrits, Tim; Theisel, Holger [AkademischeR BetreuerIn]

Visualization of second-order-tensor data and vector field ensembles

Magdeburg, 2021, xiii, 182 Seiten, Illustrationen, Diagramme, 30 cm

Klebingat, Stefan; Rose, Georg [AkademischeR BetreuerIn]; Saalfeld, Sylvia [AkademischeR BetreuerIn]; Bertrand, Jessica [AkademischeR BetreuerIn]

Vollautomatische Bestimmung von Hüfttotalendoprothesen-Parametern in routinemäßigen Röntgenbildern

Magdeburg, 2021, v, 171 Seiten, Illustrationen, Diagramme, 30 cm

Niemann, Uli; Spiliopoulou, Myra [AkademischeR BetreuerIn]; Preim, Bernhard [AkademischeR BetreuerIn]

Intelligent assistance for expert-driven subpopulation discovery in high-dimensional timestamped medical data

Magdeburg, 2021, ix, 185 Seiten, Illustrationen, Diagramme, 30 cm

Wilde, Thomas; Theisel, Holger [AkademischeR BetreuerIn]

Flow map processing

Magdeburg, 2021, xiv, 171 Seiten, Illustrationen, Diagramme, 30 cm

1. LEITUNG

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

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Arra, Aditya; Pech, Maximilian; Fu, Hang; Lingel, Holger; Braun, Franziska; Beyer, Christian; Spiliopoulou, Myra; Bröker, Barbara; Lampe, Karen; Arens, Christoph; Vogel, Katrin; Pierau, Mandy; Brunner-Weinzierl, Monika

Immune-checkpoint blockade of CTLA-4 (CD152) in antigen-specific human T-cell responses differs profoundly between neonates, children, and adults

OncoImmunology - Abingdon: Taylor & Franics, 2012, Bd. 10 (2021), 1, insges. 12 S.;

[Imp.fact.: 8.11]

Biemann, Ronald; Buß, Enrico; Benndorf, Dirk; Lehmann, Theresa; Schallert, Kay; Püttker, Sebastian; Reichl, Udo; Isermann, Berend; Schneider, Jochen; Saake, Gunter; Heyer, Robert

Fecal metaproteomics reveals reduced gut inflammation and changed microbial metabolism following lifestyle-induced weight loss

Biomolecules - Basel: MDPI, 2011, Vol.11.2021, 5, 726, insgesamt 13 Seiten;

[Imp.fact.: 4.879]

Broneske, David; Drewes, Anna; Gurumurthy, Bala; Hajjar, Imad; Pionteck, Thilo; Saake, Gunter

In-depth analysis of OLAP query performance on heterogeneous hardware

Datenbank-Spektrum - Berlin: Springer, Bd. 21 (2021), S. 133-143;

Darrab, Sadeq; Broneske, David; Saake, Gunter

Modern Applications and Challenges for Rare Itemset Mining

International Journal of Machine Learning and Computing - Singapore: International Association of Computer Science and Information Technology Press (IACSIT), Bd. 11 (2021), 3, S. 208-218;

Dünnwald, Max; Ernst, Philipp; Düzel, Emrah; Tönnies, Klaus; Betts, Matthew J.; Oeltze-Jafra, Steffen

Fully automated deep learning-based localization and segmentation of the locus coeruleus in aging and Parkinsons disease using neuromelanin-sensitive MRI

International journal of computer assisted radiology and surgery - Berlin: Springer, 2006, Bd. 16 (2021), 12, S. 2129-2135;

[Imp.fact.: 2.924]

Haertel, Christian; Pohl, Matthias; Bosse, Sascha; Häusler, Robert; Nahhas, Abdulrahman; Staegemann, Daniel; Volk, Matthias; Turowski, Klaus

Methodological case study approach for detecting business model enablers in copycat ventures

International journal of organizational and collective intelligence - Hershey, Pa.: IGI Global, Bd. 11 (2021), 4, S. 35-54;

Heiden, Bernhard; Alieksieiev, Volodymyr; Volk, Matthias; Tonino-Heiden, Bianca

Framing Artificial Intelligence (AI) Additive Manufacturing (AM)

Procedia computer science - Amsterdam [u.a.]: Elsevier, Bd. 186 (2021), S. 387-394;

Jamaludeen, Noor; Beyer, Christian; Billing, Ulrike; Vogel, Katrin; Brunner-Weinzierl, Monika; Spiliopoulou, Myra

Potential of point-of-care and at-home assessment of immune status via rapid cytokine detection and questionnaire-based anamnesis

Sensors - Basel: MDPI, 2001, Bd. 21 (2021), 15, insges. 33 S.;

[Imp.fact.: 3.576]

Jibril, Muhammad Attahir; Götze, Philipp; Broneske, David; Sattler, Kai-Uwe

Selective caching - a persistent memory approach for multi-dimensional index structures

Distributed and parallel databases - New York, NY [u.a.]: Consultants Bureau . - 2021, insges. 20 S.;

[Imp.fact.: 1.5]

Kavur, A. Emre; Gezer, N. Sinem; Barış, Mustafa; Aslan, Sinem; Conze, Pierre-Henri; Groza, Vladimir; Pham, Duc Duy; Chatterjee, Soumick; Ernst, Philipp; Özkan, Savaş; Baydar, Bora; Lachinov, Dmitry; Han, Shuo; Pauli, Josef; Isensee, Fabian; Perkonigg, Matthias; Sathish, Rachana; Rajan, Ronnie; Sheet, Debdoot; Dovletov, Gurbandurdy; Speck, Oliver; Nürnberger, Andreas; Maier-Hein, Klaus H.; Bozdağ Akar, Gözde; Ünal, Gözde; Dicle, Oğuz; Selver, M. Alper

CHAOS Challenge - combined (CT-MR) healthy abdominal organ segmentation

Medical image analysis - Amsterdam [u.a.]: Elsevier Science, Volume 69(2021), article 101950;

[Imp.fact.: 11.148]

Kuiter, Elias; Krieter, Sebastian; Krüger, Jacob; Saake, Gunter; Leich, Thomas

variED - an editor for collaborative, real-time feature modeling

Empirical software engineering - Dordrecht [u.a.]: Springer Science + Business Media B.V, Bd. 26 (2021), insges. 47 S.;

[Imp.fact.: 2.522]

Lang, Sebastian; Reggelin, Tobias; Schmidt, Johann; Müller, Marcel; Nahhas, Abdulrahman

NeuroEvolution of augmenting topologies for solving a two-stage hybrid flow shop scheduling problem - a comparison of different solution strategies

Expert systems with applications - Amsterdam [u.a.]: Elsevier Science, Vol. 172 (2021), article 114666, insgesamt 19 Seiten;

[Imp.fact.: 5.452]

Liedtke, Patrick; Feuersenger, Hannes; Arndt, Hans-Knud

Entwicklung eines Konzepts zur Managementbewertung nach DIN EN ISO 9001

HMD - Wiesbaden: Springer Fachmedien . - 2021, insges. 14 S.;

Meinusch, Nicole; Kramer, Susanne; Körner, Oliver; Wiese, Jürgen; Seick, Ingolf; Beblek, Anita; Berges, Regine; Illenberger, Bernhard; Illenberger, Marco; Uebbing, Jennifer; Wolf, Maximilian; Saake, Gunter; Benndorf, Dirk; Reichl, Udo; Heyer, Robert Steven

Integrated cycles for urban biomass as a strategy to promote a CO₂-neutral society - a feasibility study

Sustainability - Basel: MDPI, Bd. 13 (2021), 17, insges. 22 S.;

[Imp.fact.: 3.473]

Purificato, Erasmo; Wehnert, Sabine; De Luca, Ernesto William

Dynamic privacy-preserving recommendations on academic graph data

Computers: open access journal - Basel: MDPI, Bd. 10 (2021), 9, insges. 26 S.;

Rother, Anne; Niemann, Uli; Hielscher, Tommy; Völzke, Henry; Ittermann, Till; Spiliopoulou, Myra

Assessing the difficulty of annotating medical data in crowdworking with help of experiments

PLOS ONE - San Francisco, California, US: PLOS, Bd. 16 (2021), 7, insges. 26 S.;

[Imp.fact.: 3.24]

Sarasaen, Chompunuch; Chatterjee, Soumick; Breitkopf, Mario; Rose, Georg; Nürnberger, Andreas; Speck, Oliver

Fine-tuning deep learning model parameters for improved super-resolution of dynamic MRI with prior-knowledge
Artificial intelligence in medicine - Amsterdam [u.a.]: Elsevier Science, Bd. 121 (2021);
[Imp.fact.: 5.326]

Schäler, Martin; Tex, Christine; Köppen, Veit; Broneske, David; Saake, Gunter

Towards multi-purpose main-memory storage structures - exploiting sub-space distance equalities in totally ordered data sets for exact knn queries
Information systems - Oxford [u.a.]: Pergamon Press, Bd. 101 (2021), insges. 13 S.;
[Imp.fact.: 2.309]

Sciarra, Alessandro; Mattern, Hendrik; Yakupov, Renat; Chatterjee, Soumick; Stucht, Daniel; Oeltze-Jafra, Steffen; Godenschweger, Frank; Speck, Oliver

Quantitative evaluation of prospective motion correction in healthy subjects at 7T MRI
Magnetic resonance in medicine - New York, NY [u.a.]: Wiley-Liss, Bd. 87 (2022), 2, S. 646-657;
[Imp.fact.: 4.616]

Shakir, Aamir; Staegemann, Daniel; Volk, Matthias; Jamous, Naoum; Turowski, Klaus

Towards a concept for building a big data architecture with microservices
Business information systems - Hannover: TIB Open Publishing . - 2021, S. 83-94;

Siegel, Dennis; Krätzer, Christian; Seidlitz, Stefan; Dittmann, Jana

Media forensics considerations on DeepFake detection with hand-crafted features
Journal of imaging: open access journal - Basel: MDPI, Bd. 7 (2021), 7, insges. 29 S.;

Spiller, Moritz; Liu, Ying-Hsang; Hossain, Md Zakir; Gedeon, Tom; Koltermann, Julia; Nürnberger, Andreas

Predicting visual search task success from eye gaze data as a basis for user-adaptive information visualization systems
ACM transactions on interactive intelligent systems/ Association for Computing Machinery - New York, NY: ACM, Bd. 11 (2021), 2, insges. 25 S.;
[Imp.fact.: 2.137]

Staegemann, Daniel; Volk, Matthias; Shakir, Aamir; Lautenschläger, Erik; Turowski, Klaus

Examining the interplay between big data and microservices - a bibliometric review
International journal of organizational and collective intelligence: IJOICI ; an official publication of the Information Resources Management Association - Hershey, Pa.: IGI Global, Bd. 27 (2021), S. 35-54;

Staegemann, Daniel; Volk, Matthias; Turowski, Klaus

Quality assurance in big data engineering - a metareview
Complex systems informatics and modeling quarterly - Riga: Techn. Univ., Bd. 28 (2021), insges. 14 S.;

Trad, Rafi; Spiliopoulou, Myra

LAC: Latent Authorial Clustering of shorter texts
Software impacts - [Amsterdam]: Elsevier ScienceDirect, Bd. 10 (2021), insges. 3 S.;

Vahldiek, Kai; Koltermann, Julia; Pierl, Dennis; Rüger, Bernd; Nürnberger, Andreas; Michels, Kai; Klawonn, Frank

Leakage localization in district heating networks based on real network and measurement data
Energy reports - Amsterdam [u.a.]: Elsevier, Volume 7, 2021, Supplement 4, Seite 508-516;
[Imp.fact.: 6.87]

Wolff, Ian; Broneske, David; Köppen, Veit

A first metadata schema for learning analytics research data management
O-bib - München: VDB, Bd. 8 (2021), 4, insges. 20 S.;

Wu, Zheng; Sabel, Bernhard A.

Spacetime in the brain - rapid brain network reorganization in visual processing and recovery
Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, 2011, Bd. 11 (2021),
insges. 12 S.;
[Imp.fact.: 4.379]

Xu, Jiahua; Wu, Zheng; Nürnberger, Andreas; Sabel, Bernhard A.

Reorganization of brain functional connectivity network and vision restoration following combined tACS-tDCS
treatment after occipital stroke
Frontiers in neurology - Lausanne: Frontiers Research Foundation, 2008, Bd. 12 (2021), insges. 20 S.;
[Imp.fact.: 4.003]

**Zoun, Roman; Schallert, Kay; Broneske, David; Trifonova, Ivayla; Chen, Xiao; Heyer, Robert Steven;
Benndorf, Dirk; Saake, Gunter**

An investigation of alternatives to transform protein sequence databases to a columnar index schema
Algorithms - Basel: MDPI, Bd. 14 (2021), 2, insges. 16 S.;
[Imp.fact.: 0.48]

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Chatterjee, Soumick; Breitkopf, Mario; Sarasaen, Chompunuch; Yassin, Hadya; Podishetti, Ranadheer;
Rose, Georg; Nürnberger, Andreas; Speck, Oliver**

ReconResNet: regularised residual learning for MR image reconstruction of undersampled cartesian and radial
data
De.arxiv.org - [S.l.]: Arxiv.org . - 2021, S. 1-15;

**Chatterjee, Soumick; Das, Arnab; Mandal, Chirag; Mukhopadhyay, Budhaditya; Vipinraj, Manish;
Shukla, Aniruddh; Rao, Rajatha Nagaraja; Sarasaen, Chompunuch; Speck, Oliver; Nürnberger,
Andreas**

TorchEsegeta - framework for interpretability and explainability of image-based deep learning models
De.arxiv.org - [S.l.]: Arxiv.org . - 2021, insges. 15 S.;

Chatterjee, Soumick; Nizamani, Faraz Ahmed; Nürnberger, Andreas; Speck, Oliver

Classification of brain tumours in MR images using deep spatiotemporal models
De.arxiv.org - [S.l.]: Arxiv.org . - 2021, insges. 12 S.;

**Chatterjee, Soumick; Sciarra, Alessandro; Dünnwald, Max; Mushunuri, Raghava Vinaykanth;
Podishetti, Ranadheer; Rao, Rajatha Nagaraja; Gopinath, Geetha Doddapaneni; Oeltze-Jafra, Steffen;
Speck, Oliver; Nürnberger, Andreas**

ShuffleUNet: super resolution of diffusion-weighted MRIs using deep learning
De.arxiv.org - [S.l.]: Arxiv.org, 1991 . - 2021, S. 1-5;

BEGUTACHTETE BUCHBEITRÄGE

Arndt, Hans-Knud

Umweltinformatik - Alles Geschmackssache?
Informatik 2020 - Back to the future - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 269-279;

Darrab, Sadeq; Broneske, David; Saake, Gunter

MaxRI - a method for discovering maximal rare itemsets
2021 4th International Conference on Data Science and Information Technology - New York,NY,United States:
Association for Computing Machinery . - 2021, S. 334-341;

**Dey, Aditya; Radhakrishna, Chandan; Lima, Nishitha Nancy; Shashidhar, Suraj; Polley, Sayantan;
Thiel, Marcus; Nürnberger, Andreas**

Evaluating reliability in explainable search
2021 IEEE 2nd International Conference on Human-Machine Systems (ICHMS) - IEEE . - 2021, insges. 4 S.;

Ezennaya-Gomez, Salatiel; Kiltz, Stefan; Krätzer, Christian; Dittmann, Jana

A semi-automated HTTP traffic analysis for online payments for empowering security, forensics and privacy analysis

ARES 2021: the 16th International Conference on Availability, Reliability and Security, Vienna, Austria, August 17 - 20, 2021 - New York, New York: The Association for Computing Machinery . - 2021, insges. 8 S.;

Fingerhut-Säck, Mareike; Wolff, Ian

Edition des Tagebuchs von Louis Sommerlatte

Bürgerliches Leben in Oranienbaum - das Tagebuch des Kaufmanns Louis Sommerlatte (1813-1862): das Tagebuch des Kaufmanns Louis Sommerlatte (1813-1862) - Halle (Saale): Mitteldeutscher Verlag; Wolff, Ian *1990-* . - 2021, S. 110-410

Gao, Yuan; Lou, Xinxin

Operational security analysis and challenge for IoT solutions

Informatik 2020 - Back to the future: 50. Jahrestagung der Gesellschaft für Informatik vom 28. September - 2. Oktober 2020, virtual - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 321-331;

[Tagung: 50. Jahrestagung der Gesellschaft für Informatik, virtual, 28. September bis 2. Oktober 2020]

Gezmu, Andargachew; Nürnberger, Andreas; Bati, Tesfaye

Neural machine translation for amharic-english translation

Proceedings of the 13th International Conference on Agents and Artificial Intelligence. Volume 1: Online, 04-06.02.2021 - [Sétubal]: SCITEPRESS - Science and Technology Publications, Lda.; Rocha, Ana Paula . - 2021, S. 526-532;

Gupta, Tarun; Kutty, Libin; Gahir, Ritu; Ukwu, Nnamdi; Polley, Sayantan; Thiel, Marcus

IRTEX: Image Retrieval with Textual Explanations

2021 IEEE 2nd International Conference on Human-Machine Systems (ICHMS) - IEEE . - 2021, insges. 4 S.;

Gurumurthy, Bala; Broneske, David; Schäler, Martin; Pionteck, Thilo; Saake, Gunter

An investigation of atomic synchronization for sort-based group-by aggregation on GPUs

2021 IEEE 37th International Conference on Data Engineering workshops/ IEEE International Conference on Data Engineering - Piscataway, NJ: IEEE . - 2021, S. 48-53;

Hielscher, Jonas; Lamshöft, Kevin; Krätzer, Christian; Dittmann, Jana

A systematic analysis of covert channels in the network time protocol

ARES 2021: the 16th International Conference on Availability, Reliability and Security, Vienna, Austria, August 17 - 20, 2021 - New York, New York: The Association for Computing Machinery . - 2021, insges. 11 S.;

Häusler, Robert; Tröger, Marcus; Staegemann, Daniel; Volk, Matthias; Turowski, Klaus

Towards a systematic requirements engineering for IT system-based business simulation games

CSEDU 2021 ; Volume 1/ CSEDU - [Setúbal, Portugal]: SCITEPRESS - Science and Technology Publications, Lda.; Csapó, Beno . - 2021, S. 386-391

Jamaludeen, Noor; Unnikrishnan, Vishnu; Pryss, Rüdiger; Schobel, Johannes; Schlee, Winfried; Spiliopoulou, Myra

Circadian conditional granger causalities on ecological momentary assessment data from an mHealth app

2021 IEEE 34th International Symposium on Computer-Based Medical Systems: proceedings : 7-9 July 2021, virtual event - Piscataway, NJ: IEEE; Almeida, João Rafael . - 2021;

Kuiter, Elias; Krüger, Jacob; Saake, Gunter

Iterative development and changing requirements - drivers of variability in an industrial system for veterinary anesthesia

Proceedings of the 25th ACM International Systems and Software Product Line Conference - Volume B/ Mousavi - New York, NY, United States: Association for Computing Machinery; Mousavi, Mohammad Reza . - 2021, S. 113-122;

Lamshöft, Kevin; Neubert, Tom; Krätzer, Christian; Vielhauer, Claus; Dittmann, Jana

Information hiding in cyber physical systems - challenges for embedding, retrieval and detection using sensor data of the SWAT dataset

IH & MMSec '21: proceedings of the ACM Workshop on Information Hiding and Multimedia Security - New York, NY: The Association for Computing Machinery . - 2021, S. 113-124;

Lang, Sebastian; Reggelin, Tobias; Müller, Marcel; Nahhas, Abdulrahman

Open-source discrete-event simulation software for applications in production and logistics - an alternative to commercial tools?

Proceedings of the 2nd International Conference on Industry 4.0 and Smart Manufacturing (ISM 2020)/ ISM - [Amsterdam u.a.]: Elsevier; Longo, Francesco, Bd. 180 (2021), S. 978-987;

Makrushin, Andrey; Kauba, Christof; Kirchgasser, Simon; Seidlitz, Stefan; Krätzer, Christian; Uhl, Andreas; Dittmann, Jana

General requirements on synthetic fingerprint images for biometric authentication and forensic investigations

IH & MMSec '21: proceedings of the ACM Workshop on Information Hiding and Multimedia Security - New York, NY: The Association for Computing Machinery . - 2021, S. 93-104;

Mitta, Dhanunjaya; Chatterjee, Soumick; Speck, Oliver; Nürnberger, Andreas

Upgraded W-Net with attention gates and its application in unsupervised 3D liver segmentation

Proceedings of the 10th International Conference on Pattern Recognition Applications and Methods. Volume 1: February 4-6, 2021 - [Setúbal]: SCITEPRESS - Science and Technology Publications, Lda.; Marsico, Maria . - 2021, S. 488-494;

Nahhas, Abdulrahman; Krist, Marco; Turowski, Klaus

An adaptive scheduling framework for solving multi-objective hybrid flow shop scheduling problems

Hawaii International Conference on System Sciences 2021/ Hawaii International Conference on System Sciences - Honolulu, HI: University of Hawai'i at Manoa, Hamilton Library . - 2021, insges. 10 S.;

Neubert, Tom; Vielhauer, Klaus; Krätzer, Christian

Artificial steganographic network data generation concept and evaluation of detection approaches to secure industrial control systems against steganographic attacks

ARES 2021: the 16th International Conference on Availability, Reliability and Security, Vienna, Austria, August 17 - 20, 2021 - New York, New York: The Association for Computing Machinery . - 2021, insges. 9 S.;

Nielebock, Sebastian; Blockhaus, Paul; Krüger, Jacob; Ortmeier, Frank

AndroidCompass - a dataset of android compatibility checks in code repositories

2021 IEEE/ACM 18th International Conference on Mining Software Repositories/ IEEE/ACM International Conference on Mining Software Repositories - Piscataway, NJ: IEEE . - 2021, S. 535-539;

Parekh, Mithil; Waerdt, Karl; Tellabi, Asmaa

Aligning with cybersecurity framework by modelling OT security

Informatik 2020 - Back to the future: 50. Jahrestagung der Gesellschaft für Informatik vom 28. September - 2. Oktober 2020, virtual - Bonn: Gesellschaft für Informatik e.V. . - 2021, S. 311-319;

[Tagung: 50. Jahrestagung der Gesellschaft für Informatik, virtual, 28. September bis 2. Oktober 2020]

Polley, Sayantan; Koparde, Rashmi Raju; Gowri, Akshaya Bindu; Perera, Maneendra; Nürnberger, Andreas

Towards trustworthiness in the context of explainable search

Proceedings of the 44th International ACM SIGIR Conference on Research and Development in Information Retrieval/ Diaz - New York, NY, United States: Association for Computing Machinery; Diaz, Fernando . - 2021, S. 2580-2584;

Puga, Clara; Niemann, Uli; Unnikrishnan, Vishnu; Schleicher, Miro; Schlee, Winfried; Spiliopoulou, Myra

Discovery of patient phenotypes through multi-layer network analysis on the example of tinnitus

2021 IEEE International Conference on Data Science and Advanced Analytics - Piscataway, NJ: IEEE . - 2021, insges. 10 S.;

Schlee, Winfried; Langguth, Berthold; Pryss, Rüdiger; Allgaier, Johannes; Mulansky, Lena; Vogel, Carsten; Spiliopoulou, Myra; Schleicher, Miro; Unnikrishnan, Vishnu; Puga, Clara; Manta, Ourania; Sarafidis, Michalis; Kouris, Ioannis; Vellidou, Eleftheria; Koutsouris, Dimitris; Koloutsou, Konstantina; Spanoudakis, George; Cederroth, Christopher; Kikidis, Dimitris

Using big data to develop a clinical decision support system for tinnitus treatment

The Behavioral Neuroscience of Tinnitus - Cham: Springer International Publishing; Searchfield, Grant D. . - 2021, S. 175-189 - (Current topics in behavioral neurosciences; volume 51);

Schneider, Stefan; Nürnberger, Andreas

Evaluating semantic co-creation by using a marker as a linguistic constraint tool in shared cognitive representation models

Concepts in action: representation, learning, and application - Cham: Springer; Bechberger, Lucas . - 2021, S. 121-152 - (Language, cognition, and mind; volume 9);

Schulze, Fabian A.; Arndt, Hans-Knud; Feuersenger, Hannes

Obsolescence as a future key challenge for data centers

Advances and New Trends in Environmental Informatics: Digital Twins for Sustainability - Cham: Springer International Publishing, 2021; Kamilaris, Andreas . - 2021, S. 67-78;

Schwerdt, Johannes; Kotzyba, Michael; Nürnberger, Andreas

Fact-finding or exploration - characterizing reading strategies in users search activities

2021 IEEE 2nd International Conference on Human-Machine Systems (ICHMS) - IEEE . - 2021, insges. 6 S.;

Schwerdt, Johannes; Tersteegen, Aljoscha; Marquardt, Pauline; Kaasch, Achim; Nürnberger, Andreas

An explorative tool for mutation tracking in the spike glycoprotein of SARS-CoV-2

2021 IEEE 2nd International Conference on Human-Machine Systems (ICHMS) - IEEE . - 2021, insges. 6 S.;

Seidlitz, Stefan; Jürgens, Kris; Makrushin, Andrey; Krätzer, Christian; Dittmann, Jana

Generation of privacy-friendly datasets of latent fingerprint images using generative adversarial networks

VISAPP/ VISIGRAPP - [Setúbal]: SCITEPRESS - Science and Technology Publications, Lda.; Farinella, Giovanni Maria . - 2021, S. 345-352;

Shahania, Saijal; Unnikrishnan, Vishnu; Pryss, Rüdiger; Kraft, Robin; Schobel, Johannes; Hannemann, Ronny; Schlee, Winny; Spiliopoulou, Myra

User-centric vs whole-stream learning for EMA prediction

2021 IEEE 34th International Symposium on Computer-Based Medical Systems: proceedings : 7-9 July 2021, virtual event - Piscataway, NJ: IEEE; Almeida, João Rafael . - 2021;

Staegemann, Daniel; Volk, Matthias; Lautenschläger, Erik; Pohl, Matthias; Abdallah, Mohammad; Turowski, Klaus

Applying test driven development in the big data domain - lessons from the literature

International Conference on Information Technology (ICIT) - New York,NY,United States: Association for Computing Machinery . - 2021, S. 511-516;

Staegemann, Daniel; Volk, Matthias; Pohl, Matthias; Häusler, Robert; Nahhas, Abdulrahman; Abdallah, Mohammad; Turowski, Klaus

A preliminary overview of the situation in big data testing

Proceedings of the 6th International Conference on Internet of Things, Big Data and Security. Volume 1: IoTBDS 2021, Online, 23-25.04.2021 - [Setúbal]: SCITEPRESS - Science and Technology Publications, Lda.; Wills, Gary . - 2021, S. 296-302;

Staegemann, Daniel; Volk, Matthias; Saxena, Akanksha; Pohl, Matthias; Nahhas, Abdulrahman; Häusler, Robert; Abdallah, Mohammad; Bosse, Sascha; Jamous, Naoum; Turowski, Klaus

Challenges in data acquisition and management in big data environments

Proceedings of the 6th International Conference on Internet of Things, Big Data and Security. Volume 1 - [Setúbal]: SCITEPRESS - Science and Technology Publications, Lda.; Wills, Gary . - 2021, S. 193-204;

Subramanian, Harish Kumar Harihara; Gurumurthy, Bala; Durand, Gabriel Campero; Broneske, David; Saake, Gunter

Analysis of GPU-libraries for rapid prototyping database operations - a look into library support for database operations

2021 IEEE 37th International Conference on Data Engineering workshops/ IEEE International Conference on Data Engineering - Piscataway, NJ: IEEE . - 2021, S. 36-41;

Trad, Rafi; Spiliopoulou, Myra

A framework for authorial clustering of shorter texts in latent semantic spaces

Advances in Intelligent Data Analysis XIX: 19th International Symposium on Intelligent Data Analysis, IDA 2021, Porto, Portugal, April 26-28, 2021, Proceedings - Cham: Springer International Publishing; Abreu, Pedro Henriques . - 2021, S. 301-312 - (Lecture Notes in Computer Science; 12695);

Trad, Rafi; Spiliopoulou, Myra

Juxtaposing 5G coronavirus tweets with general coronavirus tweets during the early months of coronavirus outbreak

2021 IEEE 34th International Symposium on Computer-Based Medical Systems: proceedings : 7-9 July 2021, virtual event - Piscataway, NJ: IEEE; Almeida, João Rafael . - 2021;

Unnikrishnan, Vishnu; Shah, Yash; Schleicher, Miro; Fernández-Viadero, Carlos; Strandzheva, Mirela; Velikova, Doroteya; Dimitrov, Plamen; Pryss, Rüdiger; Schobel, Johannes; Schlee, Winfried; Spiliopoulou, Myra

Love thy neighbours - a framework for error-driven discovery of useful neighbourhoods for one-step forecasts on EMA data

2021 IEEE 34th International Symposium on Computer-Based Medical Systems: proceedings : 7-9 July 2021, virtual event - Piscataway, NJ: IEEE; Almeida, João Rafael . - 2021;

Vorhauer, Nicole; Mathew, P.; Gunasekaran, H.; Do, M.; Thalakkotoor, S.; Jayanand, V.; Dhanasekaran, P.; Hegde, C.; Kochupurakkal, B.; Broneske, David

3D animation of single stage batch distillation for distance learning

EDULEARN21 - [Valencia, Spain]: IATED Academy; Gómez Chova, Luis . - 2021, S. 476-483;

Wendzel, Steffen; Caviglione, Luca; Mazurczyk, Wojciech; Mileva, Aleksandra; Dittmann, Jana; Krätzer, Christian; Lamshöft, Kevin; Vielhauer, Claus; Hartmann, Laura; Keller, Jörg; Neubert, Tom

A revised taxonomy of steganography embedding patterns

ARES 2021: the 16th International Conference on Availability, Reliability and Security, Vienna, Austria, August 17 - 20, 2021 - New York, New York: The Association for Computing Machinery . - 2021, insges. 12 S.;

Xu, Jiahua; Ernst, Philipp; Liu, Tung Lung; Nürnberger, Andreas

Dual skip connections minimize the false positive rate of lung nodule detection in CT images

43rd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society (EMBC) - [Piscataway, NJ]: IEEE . - 2021, S. 3217-3220;

Xu, Jiahua; Wu, Zheng; Nürnberger, Andreas; Sabel, Bernhard A.

Interhemispheric cortical network connectivity reorganization predicts vision impairment in stroke

43rd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society (EMBC) - [Piscataway, NJ]: IEEE . - 2021, S. 836-840;

HERAUSGEBERSCHAFTEN

Sommerlatte, Louis; Wolff, Ian

Bürgerliches Leben in Oranienbaum - das Tagebuch des Kaufmanns Louis Sommerlatte (1813-1862)

Halle (Saale): Mitteldeutscher Verlag, 2021, 431 Seiten, Illustrationen, Diagramme, 21 cm - (Studien zur Geschichte und Kultur Mitteldeutschlands; Band 8)

NICHT BEGUTACHTETE BUCHBEITRÄGE

Chatterjee, Soumick; Bajaj, Himanshi; Shashidhar, Suraj; Busnur Indushekar, Sanjeeth; Simon, Steve; Siddiquee, Istiyak; Nandish, B. S.; Speck, Oliver; Nürnberger, Andreas

A comparative study of deep learning based deformable image registration techniques

ResearchGATE: scientific network ; the leading professional network for scientists - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

Chatterjee, Soumick; Breitkopf, Mario; Sarasaen, Chompunuch; Yassin, Hadya; Rose, Georg; Nürnberger, Andreas; Speck, Oliver

ReconResNet: regularised residual learning for MR image reconstruction of undersampled cartesian and radial data

Medical Imaging with Deep Learning - OpenReview.net . - 2021, insges. 3 S.;

Chatterjee, Soumick; Das, Arnab; Mandal, Chirag; Mukhopadhyay, Budhaditya; Vipinraj Bhandari, Manish Bhandari; Shukla, Aniruddh; Speck, Oliver; Nürnberger, Andreas

Interpretability techniques for deep learning based segmentation models

ResearchGATE: scientific network ; the leading professional network for scientists - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

Chatterjee, Soumick; Prabhu, Kartik; Pattadkal, Mahantesh; Bortsova, Gerda; Sarasaen, Chompunuch; Dubost, Hendrik; Bruijne, Marleen; Speck, Oliver; Nürnberger, Andreas

DS6, deformation-aware semi-supervised learning - application to small vessel segmentation with noisy training data

Medical Imaging with Deep Learning - OpenReview.net . - 2021, insges. 3 S.;

Chatterjee, Soumick; Sarasaen, Chompunuch; Sciarra, Alessandro; Breitkopf, Mario; Oeltze-Jafra, Steffen; Nürnberger, Andreas; Speck, Oliver

Going beyond the image space - undersampled MRI reconstruction directly in the k-space using a complex valued residual neural network

ResearchGATE - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

Chatterjee, Soumick; Sciarra, Alessandro; Dünwald, Max; Agrawal, Shubham; Tummala, Pavan; Setlur, Disha Kishore; Kalra, Aman; Jauhari, Aishwarya; Oeltze-Jafra, Steffen; Speck, Oliver; Nürnberger, Andreas

Unsupervised reconstruction based anomaly detection using a Variational Auto Encoder

ResearchGATE: scientific network ; the leading professional network for scientists - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

Ernst, Philipp; Rak, Marko; Hansen, Christian; Rose, Georg; Nürnberger, Andreas

Trajectory upsampling for sparse conebeam projections using convolutional neural networks

Proceedings of the 16th Virtual International Meeting on Fully 3D Image Reconstruction in Radiology and Nuclear Medicine\$hxhEditors: Georg Schramm, Ahmadreza Rezaei, Kris Thielemans and Johan Nuyts - arXiv; Schramm, Georg . - 2021, S. 285-288;

Ernst, Philipp; Rose, Georg; Nürnberger, Andreas

Sparse view deep differentiated backprojection for circular trajectories in CBCT

Proceedings of the 16th Virtual International Meeting on Fully 3D Image Reconstruction in Radiology and Nuclear Medicine\$hxhEditors: Georg Schramm, Ahmadreza Rezaei, Kris Thielemans and Johan Nuyts - arXiv; Schramm, Georg . - 2021, S. 463-466;

Hildebrandt, Mario; Shakir, Aamir; Ziemke, Alexander; Abdelrazek, Mohamed; Stuetzer, Hannes; Blut, Dominik; Lamshoef, Kevin; Ezennaya-Gomez, Salatiel; Kraetzer, Christian; Dittmann, Jana

Airolent - user identification based on analyzing WPA2 encrypted traffic containing search engine interactions

Electronic imaging - Springfield, VA: Society for Imaging Sciences and Technology, Volume 2021(2021), article MWSF-344, 8 Seiten;

Nath, Vishwesh; Pizzolato, Marco; Palombo, Marco; Gyori, Noemi; Schilling, Kurt; Hansen, Colin; Yang, Qi; Kanakaraj, Praitayini; Landman, Bennett; Chatterjee, Soumick; Sciarra, Alessandro; Dünwald, Max; Oeltze-Jafra, Steffen; Nürnberger, Andreas; Speck, Oliver; Pieciak, Tomasz; Baranek, Marcin; Bartocha, Kamil; Ciupek, Dominika; Bogusz, Fabian; Hamidinekoo, Azam; Afzali, Maryam; Lin, Harry; Alexander, Danny C.; Lan, Haoyu; Sepehrband, Farshid; Liang, Zifei; Wu, Tung-Yeh; Su, Ching-Wei; Wu, Qian-Hua; Liu, Zi-You; Chao, Yi-Ping; Albay, Enes; Unal, Gozde; Pylypenko, Dmytro; Ye, Xinyu; Zhang, Fan; Hutter, Jana

Resolving to super resolution multi-dimensional diffusion imaging (Super-MUDI)

ResearchGATE: scientific network ; the leading professional network for scientists - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

Polley, Sayantan; Janki, Atin; Thiel, Marcus; Hoebel-Mueller, Juliane; Nürnberger, Andreas

ExDocS - evidence based explainable document search

ResearchGATE - Cambridge, Mass.: ResearchGATE Corp. . - 2021, insges. 8 S.;

Saad, Fatima; Frysch, Robert; Pfeiffer, Tim; Georgi, Jens-Christoph; Knetsch, Torsten; Casal, Roberto F.; Nürnberger, Andreas; Lauritsch, Guenter; Rose, Georg

Spherical ellipse scan trajectory for tomosynthesis-assisted interventional bronchoscopy

Proceedings of the 16th Virtual International Meeting on Fully 3D Image Reconstruction in Radiology and Nuclear Medicine\$hxhEditors: Georg Schramm, Ahmadreza Rezaei, Kris Thielemans and Johan Nuyts - arXiv; Schramm, Georg . - 2021, S. 352-356;

Sarasaen, Chompunuch; Chatterjee, Soumick; Saad, Fatima; Breitkopf, Mario; Nürnberger, Andreas; Speck, Oliver

Fine-tuning deep learning model parameters for improved super-resolution of dynamic MRI with prior-knowledge
ResearchGATE - Cambridge, Mass.: ResearchGATE Corp. . - 2021;

ABSTRACTS

Saad, Fatima; Frysch, Robert; Pfeiffer, Tim; Nürnberger, Andreas; Lauritsch, Guenter; Rose, Georg

Adjusting the acquisition parameters of spherical ellipse tomosynthesis scan orbit for guiding interventional bronchoscopy

5th Conference on Image-Guided Interventions (IGIC)/ Conference on Image-Guided Interventions - Magdeburg: [Otto-von-Guericke University Magdeburg], 2021; Hansen, Christian *1980-* . - 2021, S. 9-10;

Sarasaen, Chompunuch; Chatterjee, Soumick; Nürnberger, Andreas; Speck, Oliver

DDoS: dynamic dual-channel u-net for improving deep learning based super-resolution of abdominal dynamic MRI

ResearchGATE - Cambridge, Mass.: ResearchGATE Corp., 2010 . - 2021, insges. 4 S.;

DISSERTATIONEN

Azeroual, Otmane; Saake, Gunter [AkademischeR BetreuerIn]; Arndt, Hans-Knud [AkademischeR BetreuerIn]

Untersuchungen zur Datenqualität und Nutzerakzeptanz von Forschungsinformationssystemen

Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (XVI, 185 Seiten, 16,82 MB);

Krüger, Jacob; Saake, Gunter [AkademischeR BetreuerIn]; Leich, Thomas [AkademischeR BetreuerIn]

Understanding the re-engineering of variant-rich systems - an empirical work on economics, knowledge, traceability, and practices

Magdeburg: Universitätsbibliothek, 2021, 1 Online-Ressource (xxvi, 242 Seiten, 3,17 MB), Illustrationen;

Kümmel, Karl F.; Dittmann, Jana [AkademischeR BetreuerIn]

Sicherheit biometrischer Systeme - Analyse der Sicherheit und Rückführbarkeit eines biometrischen Hash Algorithmus für die dynamische Handschrift

Magdeburg, 2021, VI, 232 Seiten, Illustrationen, Diagramme, 30 cm

Niemann, Uli; Spiliopoulou, Myra [AkademischeR BetreuerIn]; Preim, Bernhard [AkademischeR BetreuerIn]

Intelligent assistance for expert-driven subpopulation discovery in high-dimensional timestamped medical data
Magdeburg, 2021, ix, 185 Seiten, Illustrationen, Diagramme, 30 cm

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1. LEITUNG

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