

Necessary and sufficient conditions for the existence of solution of generalized fuzzy relation equations $A \Leftrightarrow X = B$

Turunen, E., 1 Oct 2020, In : Information Sciences. 536, p. 351-357 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

On the zeros of the partial Hosoya polynomial of graphs

Ghorbani, M., Dehmer, M., Cao, S., Feng, L., Tao, J. & Emmert-Streib, F., 1 Jul 2020, In : Information Sciences. 524, p. 199-215 17 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Studying the inertias of LCM matrices and revisiting the Bourque-Ligh conjecture

Haukkanen, P., Mattila, M. & Mäntysalo, J., 1 Apr 2020, In : Journal of Combinatorial Theory. Series A. 171, 105161.

Research output: Contribution to journal › Article › Scientific › peer-review

Computer-Generated Holograms for 3D Imaging: A Survey

Sahin, E., Stoykova, E., Mäkinen, J. & Gotchev, A., 2020, In : ACM Computing Surveys. 53, 2, 35 p., 32.

Research output: Contribution to journal › Review Article › Scientific › peer-review

Densely-sampled light field reconstruction

Vagharshakyan, S., Bregovic, R. & Gotchev, A., 2020, *Real VR – Immersive Digital Reality*. Springer, p. 67-95 29 p. (Lecture Notes in Computer Science; vol. 11900).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Design and characterization of light field and holographic near-eye displays

Sahin, E., Mäkinen, J., Akpinar, U., Miyanishi, Y. & Gotchev, A., 2020, *Real VR – Immersive Digital Reality*. Springer, p. 244-271 28 p. (Lecture Notes in Computer Science; vol. 11900).

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Game-theoretic semantics for ATL^+ with applications to model checking

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

PRBS-based loop gain identification and output impedance shaping in DC microgrid power converters

Khodamoradi, A., Liu, G., Mattavelli, P., Messo, T. & Abedini, H., 2020, In : Mathematics and Computers in Simulation. 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Remarks on the Design of First Digital Computers in Japan - Contributions of Yasuo Komamiya

Stanković, R. S., Sasao, T., Astola, J. T. & Yamada, A., 2020, *Computer Aided Systems Theory – EUROCAST 2019 - 17th International Conference, Revised Selected Papers*. Moreno-Díaz, R., Quesada-Arencibia, A. & Pichler, F. (eds.). Springer, p. 123-130 8 p. (Lecture Notes in Computer Science; vol. 12013).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Tile priorities in adaptive 360-degree video streaming

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Vehicle Attribute Recognition by Appearance: Computer Vision Methods for Vehicle Type, Make and Model Classification

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Research output: Contribution to journal › Article › Scientific › peer-review

Programming languages for data-intensive HPC applications: A systematic mapping study

Amaral, V., Norberto, B., Goulão, M., Aldinucci, M., Benkner, S., Bracciali, A., Carreira, P., Celms, E., Correia, L., Grelck, C., Karatza, H., Kessler, C., Kilpatrick, P., Martiniano, H., Mavridis, I., Pillana, S., Respício, A., Simão, J., Veiga, L. & Visa, A., 8 Nov 2019, In : Parallel Computing. 91, 17 p., 102584.

Research output: Contribution to journal › Article › Scientific › peer-review

Satisfiability of modal inclusion logic: Lax and strict semantics

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Research output: Contribution to journal › Article › Scientific › peer-review

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Hermitian normalized Laplacian matrix for directed networks

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Research output: Contribution to journal › Article › Scientific › peer-review

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Robertsén, F., Mattila, K. & Westerholm, J., 10 Jul 2019, In : Concurrency Computation. 31, 13, 16 p., e5072.

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Research output: Contribution to journal › Article › Scientific › peer-review

ALMARVI System Solution for Image and Video Processing in Healthcare, Surveillance and Mobile Applications

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Research output: Contribution to journal › Article › Scientific › peer-review

A fun-accuracy trade-off in game-based learning

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Alternating-time temporal logic ATL with finitely bounded semantics

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Research output: Contribution to journal › Article › Scientific › peer-review

An Accurate Approximation of Resource Request Distributions in Millimeter Wave 3GPP New Radio Systems

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Autonomous UAV Landing on a Moving Vessel: Localization Challenges and Implementation Framework

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Characterizing the Degree of LTE Involvement in Supporting Session Continuity in Street Deployment of NR Systems

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Communicating User Insights with Travel Mindsets and Experience Personas in Intra-city Bus Context

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Digital Predistortion for 5G Small Cell: GPU Implementation and RF Measurements

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

Evaluating multi-connectivity in 5G NR systems with mixture of unicast and multicast traffic

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Extending a digital fraction game piece by piece with physical manipulatives

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Graph-boosted attentive network for semantic body parsing

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Maximizing Achievable Data Rate in Unlicensed mmWave Networks with Mobile Clients

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

MicroSCOPE: Enabling access control in searchable encryption with the use of attribute-based encryption and SGX

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Near Lossless JPEG Compression Based on Masking Effect of Non-predictable Energy of Image Regions

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

On the web platform cornucopia

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Patterns for functional safety system development

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Performance of mmwave-based mesh networks in indoor environments with dynamic blockage

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Predicting Novel Views Using Generative Adversarial Query Network

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Ray-Based Modeling of Unlicensed-Band mmWave Propagation Inside a City Bus

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Rewritability in monadic disjunctive Datalog, Mmsnp, and expressive description logics

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Research output: Contribution to journal › Article › Scientific › peer-review

Simultaneously Learning Architectures and Features of Deep Neural Networks

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Teaching educational game design: Expanding the game design mindset with instructional aspects

Kiili, K. & Tuomi, P., 2019, *Games and Learning Alliance- 8th International Conference, GALA 2019, Proceedings*. Liapis, A., Yannakakis, G. N., Gentile, M. & Ninaus, M. (eds.). Springer, p. 103-113 11 p. (Lecture Notes in Computer Science ; vol. 11899).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Triggerflow: Regression Testing by Advanced Execution Path Inspection

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Understanding the digital and non-digital participation by the gaming youth

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Usability, security and trust in password managers: A quest for user-centric properties and features

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Research output: Contribution to journal › Review Article › Scientific › peer-review

Toward Efficient Execution of RVC-CAL Dataflow Programs on Multicore Platforms

Hautala, I., Boutellier, J., Nyländén, T. & Silvén, O., Nov 2018, In : *Journal of Signal Processing Systems*. 90, 11, p. 1507-1517 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Graph measures with high discrimination power revisited: A random polynomial approach

Dehmer, M., Chen, Z., Emmert-Streib, F., Shi, Y. & Tripathi, S., 1 Oct 2018, In : *Information Sciences*. 467, p. 407-414 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

NP-completeness results for partitioning a graph into total dominating sets

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Book/Report › Anthology › Scientific › peer-review

3D folded loop UAV antenna design

Pyattaev, A., Solomitckii, D. & Ometov, A., 2018, *Wired/Wireless Internet Communications - 16th IFIP WG 6.2 International Conference, WWIC 2018, Proceedings*. Springer Verlag, p. 269-281 13 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 10866 LNCS).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A Concise Review of 5G New Radio Capabilities for Directional Access at mmWave Frequencies

Sanfilippo, G., Galinina, O., Andreev, S., Pizzi, S. & Araniti, G., 2018, *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings*. Springer Verlag, p. 340-354 15 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 11118 LNCS).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

ADVIO: An authentic dataset for visual-inertial odometry

Cortés, S., Solin, A., Rahtu, E. & Kannala, J., 2018, *Computer Vision – ECCV 2018 - 15th European Conference, 2018, Proceedings*. Springer Verlag, p. 425-440 16 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 11214 LNCS).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A Lower Bound on the Average Identification Time in a Passive RFID System

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

An algebraic approach to reducing the number of variables of incompletely defined discrete functions

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Research output: Contribution to journal › Article › Scientific › peer-review

Analytical Models for Schedule-Based License Assisted Access (LAA) LTE Systems

Markova, E., Moltchanov, D., Sinitsyna, A., Ivanova, D., Filipova, V., Gudkova, I. & Samouylov, K., 2018, *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings*. Springer Verlag, p. 210-223 14 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 11118 LNCS).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Characterizing mmWave Radio Propagation at 60 GHz in a Conference Room Scenario

Ponomarenko-Timofeev, A., Semkin, V., Masek, P. & Galinina, O., 2018, *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings*. Springer Verlag, p. 381-393 13 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 11118 LNCS).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Computing minimum rainbow and strong rainbow colorings of block graphs

Keranen, M. & Lauri, J., 2018, In : *Discrete Mathematics and Theoretical Computer Science*. 20, 1, 22.
Research output: Contribution to journal > Article > Scientific > peer-review

Convolutional neural network based inter-frame enhancement for 360-degree video streaming

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Current Trends in Web Engineering: ICWE 2018 International Workshops, MATWEP, EnWot, KD-WEB, WEOD, TourismKG, Cáceres, Spain, June 5, 2018, Revised Selected Papers

Pautasso, C. (ed.), Sánchez-Figueroa, F. (ed.), Systä, K. (ed.) & Rodríguez, J. M. M. (ed.), 2018, Springer. 298 p. (Lecture Notes in Computer Science; vol. 11153)
Research output: Book/Report > Anthology > Scientific > peer-review

Gibbs Dyadic Differentiation on Groups - Evolution of the Concept

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

IoT Application Deployment Using Request-Response Pattern with MQTT

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Kinetic Approach to Elasticity Analysis of D2D Links Quality Indicators Under Non-stationary Random Walk Mobility Model

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

Model-Based Dynamic Scheduling for Multicore Signal Processing

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

MultiMedia Modeling: 24th International Conference, MMM 2018, Bangkok, Thailand, February 5-7, 2018, Proceedings, Part I

Schoeffmann, K. (ed.), Chalidabhongse, T. H. (ed.), Ngo, C. W. (ed.), Aramvith, S. (ed.), O'Connor, N. E. (ed.), Ho, Y. S. (ed.), Gabbouj, M. (ed.) & Elgammal, A. (ed.), 2018, Springer. 648 p. (Lecture Notes in Computer Science; vol. 10704)

Research output: Book/Report › Anthology › Scientific › peer-review

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Research output: Book/Report › Anthology › Scientific › peer-review

On the degeneracy of the Randić entropy and related graph measures

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Research output: Contribution to journal › Article › Scientific › peer-review

Optimization on ports activation towards energy efficient data center networks

Chkirkbene, Z., Hamila, R., Fofou, S., Kiranyaz, S. & Gabbouj, M., 2018, *Ubiquitous Networking - 4th International Symposium, UNet 2018, Revised Selected Papers*. Springer Verlag, p. 155-166 12 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 11277 LNCS).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Performance Limitations of Parsing Libraries: State-of-the-Art and Future Perspectives

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Contribution to journal › Editorial › Scientific

Reduction of variables of index generation functions using linear and quadratic transformations

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Representational quality challenges of big data: insights from comparative case studies

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Editorial › Scientific

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

A co-design study of digital service ideas in the bus context

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows

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Research output: Contribution to journal > Article > Scientific > peer-review

ASR in classroom today: Automatic visualization of conceptual network in science classrooms

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Battery monitoring within industry 4.0 landscape: Solution as a service (SaaS) for industrial power unit systems

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Characterizing time-dependent variance and coefficient of variation of SIR in D2D connectivity

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Data Flow Algorithms for Processors with Vector Extensions: Handling Actors With Internal State

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Research output: Contribution to journal > Article > Scientific > peer-review

Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs

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Research output: Contribution to journal > Article > Scientific > peer-review

ICT based interventions for anganwadi healthcare workers in Mumbai

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Implementation of a Multirate Resampler for Multi-carrier Systems on GPUs

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Research output: Contribution to journal > Article > Scientific > peer-review

Internet of Things, Smart Spaces, and Next Generation Networks and Systems: 17th International Conference, NEW2AN 2017, 10th Conference, ruSMART 2017, Third Workshop NsCC 2017, St. Petersburg, Russia, August 28–30, 2017, Proceedings

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Research output: Book/Report > Anthology > Scientific > peer-review

Local adaptive wiener filtering for class averaging in single particle reconstruction

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Multi-task Deep Face Recognition

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

NP-completeness results for partitioning a graph into total dominating sets

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters

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Research output: Contribution to journal › Article › Scientific › peer-review

Parental perspectives towards education technology in low-income urban households

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Stubborn set intuition explained

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

The time will tell on you: Exploring information leaks in SSH public key authentication

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Time-dependent SIR analysis in shopping malls using fractal-based mobility models

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Wired/Wireless Internet Communications: 15th IFIP WG 6.2 International Conference, WWIC 2017, St. Petersburg, Russia, June 21–23, 2017, Proceedings

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Research output: Book/Report › Anthology › Scientific › peer-review

A survey on internal interfaces used by exploits and implications on interface diversification

Rauti, S., Lauren, S., Uitto, J., Hosseinzadeh, S., Ruohonen, J., Hyrynsalmi, S. & Leppänen, V., 2 Nov 2016, *Secure IT Systems - 21st Nordic Conference, NordSec 2016, Proceedings*. Springer Verlag, Vol. 10014 LNCS. p. 152-168 17 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 10014 LNCS).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Coverage and network requirements of a "Big Data" flash crowd monitoring system using users' devices

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Intra-CPU traffic estimation and implications on networks-on-chip research

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Optimizing network-assisted WLAN systems with aggressive channel utilization

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Application and theory of Petri nets and other models of concurrency: Special issue of selected papers from Petri Nets 2015

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Research output: Contribution to journal › Editorial › Scientific

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Research output: Contribution to journal › Article › Scientific › peer-review

A prospect for computing in porous materials research: Very large fluid flow simulations

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Are software developers just users of development tools? Assessing developer experience of a graphical user interface designer

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Backend infrastructure supporting audio augmented reality and storytelling

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Coordinating decision-making in data management activities: A systematic review of data governance principles

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Customer involvement in continuous deployment: A systematic literature review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fair testing and stubborn sets

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Global scale integral volumes

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

HTML5-based mobile agents for Web-of-Things

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

Implementing a broadcast storm attack on a mission-critical wireless sensor network

Krivtsova, I., Lebedev, I., Sukhoparov, M., Bazhayev, N., Zikratov, I., Ometov, A., Andreev, S., Masek, P., Fujdiak, R. & Hosek, J., 2016, *Wired/Wireless Internet Communications: 14th IFIP WG 6.2 International Conference, WWIC 2016, Thessaloniki, Greece, May 25-27, 2016, Proceedings*. Springer Verlag, Vol. 9674. p. 297-308 12 p. (Lecture Notes in Computer Science; vol. 9674).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Instrumentation-Driven Validation of Dataflow Applications

Chukhman, I., Jiao, Y., Salem, H. B. & Bhattacharyya, S. S., 2016, In : *Journal of Signal Processing Systems*. 84, 3, p. 383-397

Research output: Contribution to journal › Article › Scientific › peer-review

IS acquisition characteristics in the public sector

Mäki-Lohiluoma, P., Hellsten, P. & Pekkola, S., 2016, *Electronic Government - 15th IFIP WG 8.5 International Conference, EGOV 2016, Proceedings*. Springer Verlag, p. 164-175 12 p. (Lecture Notes in Computer Science; vol. 9820).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Mobile soundscape mixer – ready for action

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

On the arity gap of finite functions: Results and applications

Couceiro, M. & Lehtonen, E., 2016, In : *Journal of Multiple-Valued Logic and Soft Computing*. 27, 2-3, p. 193-207 15 p.

Research output: Contribution to journal › Review Article › Scientific › peer-review

Operating system compositor and hardware usage to enhance graphical performance in web runtimes

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Private cloud deployment model in open-source mobile robots ecosystem

Oksa, P. & Loula, P., 2016, *Towards Autonomous Robotic Systems: 17th Annual Conference, TAROS 2016, Sheffield, UK, June 26-July 1, 2016, Proceedings*. Springer Verlag, p. 239-248 10 p. (Lecture Notes in Computer Science; vol. 9716).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Supporting management of hybrid OSS communities - A stakeholder analysis approach

Mäenpää, H., Kojo, T., Munezero, M., Fagerholm, F., Kilamo, T., Nurminen, M. & Männistö, T., 2016, *Product-Focused Software Process Improvement - 17th International Conference, PROFES 2016, Proceedings*. Springer Verlag, p. 102-108 7 p. (Lecture Notes in Computer Science; vol. 10027).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Synchronizing application state using virtual DOM trees

Voutilainen, J-P., Mikkonen, T. & Systä, K., 2016, *Current Trends in Web Engineering: ICWE 2016 International Workshops DUI, TELERISE, SoWeMine, and Liquid Web, Revised Selected Papers*. Springer Verlag, p. 142-154 13 p. (Lecture Notes in Computer Science; vol. 9881).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

System design and analysis of UAV-assisted BLE wireless sensor systems

Komarov, M. & Moltchanov, D., 2016, *Wired/Wireless Internet Communications: 14th IFIP WG 6.2 International Conference, WWIC 2016, Thessaloniki, Greece, May 25-27, 2016, Proceedings*. Springer Verlag, p. 284-296 13 p. (Lecture Notes in Computer Science; vol. 9674).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Temperature dependence of leakiness of transcription repression mechanisms of Escherichia coli

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

The developers dilemma: Perfect product development or fast business validation?

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Towards model construction based on test cases and GUI extraction

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Ruohonen, J., Hyrynsalmi, S. & Leppänen, V., 30 Aug 2015, *14th International Workshop on Principles of Software Evolution, IWSE 2015 - Proceedings*. Institute of Electrical and Electronics Engineers Inc., Vol. 30-Aug-2015. p. 56-65 10 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Automatic verification of Dafny programs with traits

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Accuracy evaluation of a linear positioning system for light field capture

Vagharshakyan, S., Durmush, A., Suominen, O., Bregovic, R. & Gotchev, A., 2015, *Intelligent Information and Database Systems: 7th Asian Conference, ACIIDS 2015, Bali, Indonesia, March 23-25, 2015, Proceedings, Part II*. Springer Verlag, p. 388-397 10 p. (Lecture Notes in Computer Science; vol. 9012).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A conceptual model towards the scaffolding of learning experience

Arnab, S., Ger, P. M., Lim, T., Lameris, P., Hendrix, M., Kiili, K., Hauge, J. B., Ninaus, M., de Freitas, S., Mazzetti, A., Dahlbom, A., Degano, C., Stanescu, I. & Riveiro, M., 2015, *Third International Conference, GALA 2014, Bucharest, Romania, July 2-4, 2014*. Springer Verlag, Vol. 9221. p. 83-96 14 p. (Lecture Notes in Computer Science (including

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Analysis of HVS-metrics' properties using color image database TID2013

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Book/Report › Anthology › Scientific › peer-review

Applying finite state process algebra to formally specify a computational model of security requirements in the key2phone-mobile access solution

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Complex transforms

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Delayed key exchange for constrained smart devices

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Detecting and tracking the tips of fluorescently labeled mitochondria in U2OS cells

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Diversification of system calls in linux binaries

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Existence and synthesis of complex hopfield type associative memories

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Gender classification by LUT based boosting of overlapping block patterns

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Life in the fast lane: Effect of language and calibration accuracy on the speed of text entry by gaze

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Mining itemset-based distinguishing sequential patterns with gap constraint

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Non-local sigma filter

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Remarks on characterization of bent functions in terms of gibbs dyadic derivatives

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Speaker verification using adaptive dictionaries in non-negative spectrogram deconvolution

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

The Extended 1-D (One-Dimensional) Discrete Phase Retrieval Problem

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Three positives make one negative: Public sector is procurement

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Towards liquid web applications

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Vision-based trajectories planning for four wheels independently steered mobile robots with maximum allowable velocities

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

A computational approach to construct a multivariate complete graph invariant

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Research output: Contribution to journal > Article > Scientific > peer-review

Audio-haptic car navigation interface with rhythmic tactons

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Delayed haptic feedback to gaze gestures

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Does visualization speed up the safety analysis process?

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Evaluation of user experience goal fulfillment: Case remote operator station

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Interoperability-related architectural problems and solutions in information systems: A scoping study

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Low-Power Reconfigurable Miniature Sensor Nodes for Condition Monitoring

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Research output: Contribution to journal > Article > Scientific > peer-review

Mining frequent closed sequential patterns with non-user-defined gap constraints

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Research output: Contribution to journal > Article > Scientific > peer-review

Multi-view regularized extreme learning machine for human action recognition

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Contribution to journal > Special issue > Scientific > peer-review

Towards generic embedded multiprocessing for RVC-CAL dataflow programs

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Research output: Contribution to journal > Article > Scientific > peer-review

Intuitiveness of vibrotactile speed regulation cues

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Research output: Contribution to journal > Article > Scientific > peer-review

Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio

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Research output: Contribution to journal > Article > Scientific > peer-review

A field trial on mobile crowdsourcing of news content: Factors influencing participation

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

Cell-at-a-time approach to lazy evaluation of dimensional aggregations

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Creating immersive audio and lighting based physical exercise games for schoolchildren

Hakulinen, J., Turunen, M., Heimonen, T., Keskinen, T., Sand, A., Paavilainen, J., Parviainen, J., Yrjänäinen, S., Mäyrä, F., Okkonen, J. & Raisamo, R., 2013, *Advances in Computer Entertainment - 10th International Conference, ACE 2013, Proceedings*. Vol. 8253 LNCS. p. 308-319 12 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 8253 LNCS).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Designing gesture-based control for factory automation

Heimonen, T., Hakulinen, J., Turunen, M., Jokinen, J. P. P., Keskinen, T. & Raisamo, R., 2013, *Human-Computer Interaction, INTERACT 2013 - 14th IFIP TC 13 International Conference, Proceedings*. PART 2 ed. Vol. 8118 LNCS. p. 202-209 8 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 8118 LNCS, no. PART 2).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Expectation maximization for average reward decentralized POMDPs

Pajarinen, J. & Peltonen, J., 2013, *Machine Learning and Knowledge Discovery in Databases - European Conference, ECML PKDD 2013, Proceedings*. PART 1 ed. Vol. 8188 LNAI. p. 129-144 16 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 8188 LNAI, no. PART 1).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Parameterized scheduling of topological patterns in signal processing dataflow graphs

Wang, L. H., Shen, C. C., Wu, S. & Bhattacharyya, S. S., 2013, In : *Journal of Signal Processing Systems*. 71, 3, p. 275-286 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Voluntary facial activations regulate physiological arousal and subjective experiences during virtual social stimulation

Vanhala, T., Surakka, V., Courgeon, M. & Martin, J. C., Mar 2012, In : *ACM TRANSACTIONS ON APPLIED PERCEPTION*. 9, 1, 1.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of extensive vs. confirmation haptic interfaces with two levels of disruptive tasks

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Research output: Contribution to journal › Article › Scientific › peer-review

Mapping parameterized cyclo-static dataflow graphs onto configurable hardware

Kee, H., Shen, C. C., Bhattacharyya, S. S., Wong, I., Rao, Y. & Kornerup, J., 2012, In : *Journal of Signal Processing Systems*. 66, 3, p. 285-301 17 p.

Research output: Contribution to journal › Article › Scientific › peer-review

NonVisNavi: Non-visual mobile navigation application for pedestrians

Nukarinen, T., Raisamo, R., Pystynen, J. & Mäkinen, E., 2012, In : *Lecture Notes in Computer Science*. 7283 LNCS, PART 2, p. 214-217 4 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Orientation inquiry: A new haptic interaction technique for non-visual pedestrian navigation

Raisamo, R., Nukarinen, T., Pystynen, J., Mäkinen, E. & Kildal, J., 2012, In : *Lecture Notes in Computer Science*. 7283 LNCS, PART 2, p. 139-144 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Practical realisation and elimination of an ECC-related software bug attack

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Secure and fast implementations of two involution ciphers

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

SymbolChat: Picture-based communication platform for users with intellectual disabilities

Keskinen, T., Heimonen, T., Turunen, M., Rajaniemi, J. P. & Kauppinen, S., 2012, *Computers Helping People with Special Needs - 13th International Conference, ICCHP 2012, Proceedings*. PART 2 ed. Vol. 7383 LNCS. p. 279-286 8 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 7383 LNCS, no. PART 2).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Utilizing haptic feedback in drill rigs

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Research output: Contribution to journal > Article > Scientific > peer-review

Overview of the MPEG reconfigurable video coding framework

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Review Article > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A model-based schedule representation for heterogeneous mapping of dataflow graphs

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A morphological atlas of prostate's zonal anatomy for construction of realistic digital and physical phantoms

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Focused multi-task learning using Gaussian processes

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Heterogeneous design in functional DIF

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Remote timing attacks are still practical

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

On modular decomposition of integers

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Optimization procedure for predicting nonlinear time series based on a non-Gaussian noise model

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Users' preferences for ubiquitous computing applications at home

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review