

Neural networks, cell cultures and some older work on data analysis.

Acimovic, J., 15 Jun 2009.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor

Aghababaeetafreschi, M., Lehtonen, L. K., Levanen, T., Valkama, M. & Takala, J., 2016, In : Journal of Signal Processing Systems.

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

Model for evaluating additive manufacturing feasibility in end-use production

Ahtiluoto, M., Ellman, A. & Coatanea, E., 2019, In : Proceedings of the International Conference on Engineering Design, ICED. 1, 1, p. 799-808 10 p.

Research output: Contribution to journal › Conference article › Scientific › peer-review

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

Al-Ars, Z., van der Vlugt, S., Jääskeläinen, P. & van der Linden, F., Jan 2019, In : Journal of Signal Processing Systems. 91, 1, p. 1-7

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

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Altay, G. & Emmert-Streib, F., 22 Jun 2011, In : Biology Direct. 6, 31.

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

Inferring the conservative causal core of gene regulatory networks

Altay, G. & Emmert-Streib, F., 28 Sep 2010, In : BMC Systems Biology. 4, 132.

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Bakhouya, M., Chariete, A., Gaber, J., Wack, M., Niar, S. & Coatanea, E., 2012, *Proceedings of the 2012 International Conference on High Performance Computing and Simulation, HPCS 2012*. p. 281-287 7 p. 6266925

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

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Barford, L., Bhattacharyya, S. S. & Liu, Y., 2017, In : Journal of Signal Processing Systems. 87, 1, p. 21-31

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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

A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows

Blattner, T., Keyrouz, W., Bhattacharyya, S. S., Halem, M. & Brady, M., 2017, In : Journal of Signal Processing Systems. 89, 3, p. 457-467 11 p.

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

Conformational properties of complex polymers: Rosette versus star-like structures

Blavatska, V. & Metzler, R., 7 Apr 2015, In : Journal of Physics A: Mathematical and Theoretical. 48, 13, 135001.

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

Bringing stimulated ideation in a web environment: Students' evaluations of a basic software release

Borgianni, Y., Lenarduzzi, V., Rotini, F. & Taibi, D., 2018, *ICDC 2018 - 5th International Conference on Design Creativity, Conference Proceedings*. Dekoninck, E., Wodehouse, A., Snider, C., Georgiev, G. & Cascini, G. (eds.). DESIGN SOCIETY, (Proceedings of the International Conference on Engineering Design, ICED).

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Towards generic embedded multiprocessing for RVC-CAL dataflow programs

Boutellier, J. & Silvén, O., Nov 2013, In : *Journal of Signal Processing Systems*. 73, 2, p. 137-142 6 p.

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

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Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs

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

An image generator platform to improve cell tracking algorithms simulation of objects of various morphologies, kinetics and clustering

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

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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

A framework for building behavioral models for design-stage failure identification using dimensional analysis

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Knowledge-based artificial neural network (KB-ANN) in engineering: Associating functional architecture modeling, dimensional analysis and causal graphs to produce optimized topologies for KB-ANNs

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Properties of graph distance measures by means of discrete inequalities

Dehmer, M., Chen, Z., Emmert-Streib, F., Shi, Y., Tripathi, S., Musa, A. & Mowshowitz, A., 1 Jul 2018, In : Applied Mathematical Modelling. 59, p. 739-749 11 p.

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

Organizational structure and the periphery of the gene regulatory network in B-cell lymphoma.

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

PiMM: Parameterized and interfaced dataflow meta-model for MPSoCs runtime reconfiguration

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

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Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers

Dumitrescu, M., Uusitalo, T., Virtanen, H., Laakso, A., Bardella, P. & Montrosset, I., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 147-148 2 p.

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

Hysteresis and eddy-current losses in electrical steel utilising edge degradation due to cutting effects

Elfgen, S., Rasilo, P. & Hameyer, K., 2020, In : International Journal of Numerical Modelling: Electronic Networks, Devices and Fields. 10 p.

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

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Research output: Contribution to journal > Editorial > Scientific

Harnessing the complexity of gene expression data from cancer: From single gene to structural pathway methods

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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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Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycero)phosphate and sphingomyelin

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Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in escherichia coli

Georgiev, G. Y., Aho, T., Kesseli, J., Yli-Harja, O. & Kauffman, S. A., 2019, *Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems*. Flores Martinez, C. L., Georgiev, G. Y., Smart, J. M. & Price, M. E. (eds.). Springer, p. 229-244 16 p. (Springer Proceedings in Complexity).

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Dynamics of a buck converter with a constant power load

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Exploiting statically schedulable regions in dataflow programs

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Towards usability heuristics for games utilizing speech recognition

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

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

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

UX work in startups: Current practices and future needs

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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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Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations

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Revenue models of application developers in android market ecosystem

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Effect of paint baking treatment on the properties of press hardened boron steels

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Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions

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Entropy analysis of word-length series of natural language texts: Effects of text language and genre

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Computationally efficient optimization algorithms for model predictive control of linear systems with integer inputs

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Mapping parameterized cyclo-static dataflow graphs onto configurable hardware

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

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

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A simulation case study of production planning and control in printed wiring board manufacturing

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Influence of specimen type and reinforcement on measured tension-tension fatigue life of unidirectional GFRP laminates

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Implementation of a direct procedure for critical point computations using preconditioned iterative solvers

Kouhia, R., Tüma, M., Mäkinen, J., Fedoroff, A. & Marjamäki, H., Oct 2012, In : *Computers & Structures*. 108-109, p. 110-117 8 p.

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Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth

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Very sharp diffraction peak in nonglass-forming liquid with the formation of distorted tetraclusters

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

Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes

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Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors

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

Applying SCRUM in an OSS development process: An empirical evaluation

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OP2A: How to improve the quality of the web portal of open source software products

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Prioritizing corrective maintenance activities for android applications: An industrial case study on android crash reports

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

Functional size measures and effort estimation in agile development: A replicated study

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

Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment

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

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On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains

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Reconfigurable computing for future vision-capable devices

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Possible structures of nonstoichiometric tin oxide: The composition Sn₂O₃

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