

**A comparison between joint regression analysis and the AMMI model: A case study with barley**

Pereira, D. G., Rodrigues, P. C., Mejza, S. & Mexia, J. T., Feb 2012, In : JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION. 82, 2, p. 193-207 15 p.

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

**Active scanner control on paper machines**

Raunio, J-P. & Ritala, R., 1 Dec 2018, In : Journal of Process Control. 72, p. 74-90 17 p.

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

**Adaptive autoregressive model for reduction of noise in SPECT**

Takalo, R., Hytti, H., Ihalainen, H. & Sohlberg, A., 2015, In : Computational and Mathematical Methods in Medicine. 2015, 494691.

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**Ageing first passage time density in continuous time random walks and quenched energy landscapes**

Krüsemann, H., Godec, A. & Metzler, R., 17 Jul 2015, In : Journal of Physics A: Mathematical and Theoretical. 48, 28, 285001.

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**A hybrid optimization grey model based on segmented gra and multi-strategy contest for short-term power load forecasting**

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**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.

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**Algorithmic computation of knot polynomials of secondary structure elements of proteins**

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**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

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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**

Krogerus, T., Hyvönen, M. & Huhtala, K., Mar 2018, In : Fuel. 216, p. 1-9

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

**Analysis of the damping characteristics of two power electronics-based devices using 'individual channel analysis and design'**

Ugalde-Loo, C. E., Acha, E. & Licéaga-Castro, E., 1 Jul 2018, In : Applied Mathematical Modelling. 59, p. 527-545 19 p.

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

Mattila, K., Puurtinen, T., Hyväluoma, J., Surmas, R., Mylly, M., Turpeinen, T., Robertsén, F., Westerholm, J. & Timonen, J., 1 Jan 2016, In : Journal of Computational Science. 12, p. 62-76 15 p.

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**Assessment of mutation probabilities of KRAS G12 missense mutants and their long-timescale dynamics by atomistic molecular simulations and Markov state modeling**

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#### **Atomistic fingerprint of hyaluronan–CD44 binding**

Vuorio, J., Vattulainen, I. & Martinez-Seara, H., 1 Jul 2017, In : PLoS Computational Biology. 13, 7, e1005663.

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#### **Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs**

Boutellier, J., Raulet, M. & Silvén, O., 2013, In : Journal of Signal Processing Systems. 71, 1, p. 35-40 6 p.

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#### **Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech**

Räsänen, O., Seshadri, S., Karadayi, J., Riebling, E., Bunce, J., Cristia, A., Metze, F., Casillas, M., Rosemberg, C., Bergelson, E. & Soderstrom, M., 1 Oct 2019, In : Speech Communication. 113, p. 63-80 18 p.

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#### **Comb Model with Slow and Ultraslow Diffusion**

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

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

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#### **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.

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#### **Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history**

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#### **Cuts for 3-D magnetic scalar potentials: Visualizing unintuitive surfaces arising from trivial knots**

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#### **Data augmentation approaches for improving animal audio classification**

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

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#### **Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs**

Boutellier, J. & Nyländén, T., 2017, In : Journal of Signal Processing Systems. 89, 3, p. 469-478 10 p.

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

#### **Development of an England-wide indoor overheating and air pollution model using artificial neural networks**

Symonds, P., Taylor, J., Chalabi, Z., Mavrogianni, A., Davies, M., Hamilton, I., Vardoulakis, S., Heaviside, C. & Macintyre, H., 1 Nov 2016, In : JOURNAL OF BUILDING PERFORMANCE SIMULATION. 9, 6, p. 606-619 14 p.

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

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

Pascual Campo, P., Lampu, V., Meirhaeghe, A., Boutellier, J., Anttila, L. & Valkama, M., 2019, In : Journal of Signal Processing Systems. 12 p.

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### **Distant speech separation using predicted time-frequency masks from spatial features**

Pertilä, P. & Nikunen, J., 2015, In : Speech Communication. 68, p. 97-106 10 p.

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

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

Järvinen, H., Honkanen, M., Järvenpää, M. & Peura, P., 2018, In : Journal of Materials Processing Technology. 252, p. 90-104 15 p.

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### **Enhanced multiaxial fatigue criterion that considers stress gradient effects**

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

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### **Exploiting statically schedulable regions in dataflow programs**

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

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

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### **IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor**

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

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

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

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### **Iterative and Participative Axiomatic Design Process in complex mechanical assemblies: case study on fusion engineering**

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### **Mapping parameterized cyclo-static dataflow graphs onto configurable hardware**

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

de Matos Simoes, R., Tripathi, S. & Emmert-Streib, F., 14 May 2012, In : BMC Systems Biology. 6, 38.

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**Overview of the MPEG reconfigurable video coding framework**

Bhattacharyya, S. S., Eker, J., Janneck, J. W., Lucarz, C., Mattavelli, M. & Raulet, M., May 2011, In : Journal of Signal Processing Systems. 63, 2, p. 251-263 13 p.

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

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**Parameterized scheduling of topological patterns in signal processing dataflow graphs**

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**Pathway analysis of expression data: Deciphering functional building blocks of complex diseases**

Emmert-Streib, F. & Glazko, G. V., May 2011, In : PLoS Computational Biology. 7, 5, e1002053.

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**Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes**

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**Possible structures of nonstoichiometric tin oxide: The composition Sn<sub>2</sub>O<sub>3</sub>**

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**Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture**

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**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.

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### **Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms**

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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.

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### **Quantifying the non-ergodicity of scaled Brownian motion**

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### **Quasi-static scheduling of CAL actor networks for reconfigurable video coding**

Boutellier, J., Lucarz, C., Lafond, S., Gomez, V. M. & Mattavelli, M., May 2011, In : Journal of Signal Processing Systems. 63, 2, p. 191-202 12 p.

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

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### **Spectral modeling of time series with missing data**

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### **Structural influence of gene networks on their inference: Analysis of C3NET**

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### **Target tracking via combination of particle filter and optimisation techniques**

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### **The Fisher-Snedecor F Distribution: A Simple and Accurate Composite Fading Model**

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### **Topological patterns for scalable representation and analysis of dataflow graphs**

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

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### **Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data**

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### **Using building simulation to model the drying of flooded building archetypes**

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

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### **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis**

Koivisto, A. J., Aromaa, M., Koponen, I. K., Fransman, W., Jensen, K. A., Mäkelä, J. M. & Hämeri, K. J., 9 Apr 2015, In : Journal of Nanoparticle Research. 17, 4

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

Korhonen, H. M. E., Heikkilä, J. & Törnwall, J. M., 1 Dec 2001, In : Winter Simulation Conference Proceedings. 2, p. 844-847 4 p.

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### **Model for evaluating additive manufacturing feasibility in end-use production**

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### **Guest Editorial: Implementation Issues in System-on-Chip**

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### **Acoustic Modelling**

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### **Two models for hydraulic cylinders in flexible multibody simulations**

Ylinen, A., Mäkinen, J. & Kouhia, R., 2016, *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction*. Springer, p. 463-493 31 p. (Computational Methods in Applied Sciences; vol. 41).

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**Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in escherichia coli**  
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**A framework for building behavioral models for design-stage failure identification using dimensional analysis**

Coatanéa, E., Ritola, T., Tumer, I. Y. & Jensen, D., 2010, *Proceedings of the ASME Design Engineering Technical Conference*. AMER SOC MECHANICAL ENGINEERS, Vol. 5. p. 591-601 11 p.

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