

**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

**Acoustic Modelling**

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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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**Active scanner control on paper machines**

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

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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**

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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**

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

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

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**An origami inspired reconfigurable spiral antenna**

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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**

Lavazza, L., Morasca, S., Taibi, D. & Tosi, D., 2010, *Agile Processes in Software Engineering and Extreme Programming - 11th International Conference, XP 2010, Proceedings*. Springer Verlag, Vol. 48 LNBIP. p. 147-159 13 p. (Lecture Notes in Business Information Processing; vol. 48 LNBIP).

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

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

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

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

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

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### **Business Model Innovation of Startups Developing Multisided Digital Platforms**

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### **Characterizing trustworthy digital rights exporting**

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### **Client-Side Cornucopia: Comparing the Built-In Application Architecture Models in the Web Browser**

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### **Color Constancy Convolutional Autoencoder**

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

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### **Comparing requirements decomposition within the Scrum, Scrum with Kanban, XP, and Banana development processes**

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

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### **Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives**

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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 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**

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

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

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**Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization**

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**Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of ‘Software Ecosystem’**

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**Eeny, Meeny, Miny, Mo...: A multiple case study on selecting a technique for user-interaction data collecting**

Suonsyrjä, S., 2017, *Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings*. Springer Verlag, p. 52-67 16 p. (Lecture Notes in Business Information Processing; vol. 283).

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

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**Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India**

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**Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels**

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

Lenarduzzi, V., Lunesu, I., Matta, M. & Taibi, D., 2015, *Agile Processes, in Software Engineering, and Extreme Programming - 16th International Conference, XP 2015, Proceedings*. Springer-Verlag Berlin Heidelberg, Vol. 212. p. 105-116 12 p. (Lecture Notes in Business Information Processing; vol. 212).

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**Graph based representation and analyses for conceptual stages**

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

Ellervee, P. & Nurmi, J., 1 Jun 2017, In : *Journal of Signal Processing Systems*. 87, 3, p. 269-270 2 p.

Research output: Contribution to journal › Editorial › Scientific

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

Emmert-Streib, F., Tripathi, S. & Matos Simoes, R. D., 10 Dec 2012, In : *Biology Direct*. 7, 44.

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### **Hermitian one-particle density matrix through a semiclassical gradient expansion**

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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**

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

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

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

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

Humaloja, J-P., Ali-Löytty, S., Pohjolainen, S. & Hämäläinen, T., 2017, *Progress in Industrial Mathematics at ECMI 2016*.

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### **Inferring the conservative causal core of gene regulatory networks**

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

Levin, M., Rojas, E., Vanhala, E., Vippola, M., Liguori, B., Kling, K. I., Koponen, I. K., Mølhav, K., Tuomi, T., Gregurec, D., Moya, S. & Jensen, K. A., 14 Aug 2015, In : *Journal of Nanoparticle Research*. 17, 8, 337.

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

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**Information processing in the transcriptional regulatory network of yeast: Functional robustness**

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**Instrumentation-Driven Validation of Dataflow Applications**

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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**

Di Gironimo, G., Lanzotti, A., Marzullo, D., Esposito, G., Carfora, D. & Siuko, M., 22 Mar 2015, In : *International Journal on Interactive Design and Manufacturing*. 9, 4, p. 325-338 14 p.

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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**

Coatanéa, E., Wu, D., Tsarkov, V., Gary Wang, G., Modi, S. & Jafarian, H., 2018, *38th Computers and Information in Engineering Conference*. The American Society of Mechanical Engineers ASME, Vol. 1B-2018. 12 p.

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**Lean manufacturing methods in simulation literature: Review and association analysis**

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**Lean software startup – an experience report from an entrepreneurial software business course**

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**Local network-based measures to assess the inferability of different regulatory networks**

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**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.

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**Measurement theory and dimensional analysis: Methodological impact on the comparison and evaluation process**

Coatanéa, E., Yannou, B., Honkala, S., Lajunen, A., Saarelainen, T. & Makkonen, P., 2008, *19th International Conference on Design Theory and Methodology and 1st International Conference on Micro and Nano Systems, presented at - 2007 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE2007*. AMER SOC MECHANICAL ENGINEERS, p. 173-182 10 p.

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

**Minimum viable user experience: A framework for supporting product design in startups**

Hokkanen, L., Kuusinen, K. & Väänänen, K., 2016, *Agile Processes, in Software Engineering, and Extreme Programming: 17th International Conference, XP 2016, Edinburgh, UK, May 24-27, 2016, Proceedings*. Springer Verlag, p. 66-78 13 p. (Lecture Notes in Business Information Processing; vol. 251).

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

#### **Model-Based Dynamic Scheduling for Multicore Signal Processing**

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