

Data augmentation approaches for improving animal audio classification

Nanni, L., Maguolo, G. & Paci, M., 2020, In : *Ecological Informatics*. 57, 8 p., 101084.

Research output: Contribution to journal › Article › 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

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

Safety at chimney-roof penetration: A numerical investigation

Neri, M., Perttu, L., Alanen, M., Luscietti, D. & Pilotelli, M., 2020, *Building Simulation Applications, BSA 2019 - 4th IBPSA-Italy Conference*. Pernigotto, G., Patuzzi, F., Prada, A., Corrado, V. & Gasparella, A. (eds.). Free University of Bozen Bolzano, p. 123-130 8 p. (Building Simulation Applications; vol. 2020-June).

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

Ni, X. & Huttunen, H., 2020, In : *Journal of Signal Processing Systems*.

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

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

Koyama, C., Tahara, S., Kohara, S., Onodera, Y., Småbråten, D. R., Selbach, S. M., Akola, J., Ishikawa, T., Masuno, A., Mizuno, A., Okada, J. T., Watanabe, Y., Nakata, Y., Ohara, K., Tamaru, H., Oda, H., Obayashi, I., Hiraoka, Y. & Sakata, O., 2020, In : *NPG ASIA MATERIALS*. 12, 1, 11 p., 43.

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

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.

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

Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes

Kreutzer, J., Viehrig, M., Pölonen, R. P., Zhao, F., Ojala, M., Aalto-Setälä, K. & Kallio, P., 23 Aug 2019, In : *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*.

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

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

Javanainen, M., Enkavi, G., Guixà-González, R., Kulig, W., Martinez-Seara, H., Levental, I. & Vattulainen, I., 1 May 2019, In : *PLoS Computational Biology*. 15, 5, e1007033.

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

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

Yoo, S. K., Cotton, S. L., Sofotasios, P. C., Muhaidat, S., Badarneh, O. S. & Karagiannidis, G. K., 20 Feb 2019, *2018 IEEE Global Communications Conference*. IEEE, 8647778

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

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

Kovalchukov, R., Moltchanov, D., Begishev, V., Samuylov, A., Andreev, S., Koucheryavy, Y. & Samouylov, K., 20 Feb 2019, *2018 IEEE Global Communications Conference, GLOBECOM 2018*. IEEE

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

Data Vault Mappings to Dimensional Model Using Schema Matching

Puonti, M. & Raitalaakso, T., 1 Jan 2019, *Research and Practical Issues of Enterprise Information Systems - 13th IFIP WG 8.9 International Conference, CONFENIS 2019, Proceedings*. Doucek, P., Basl, J., Pavlicek, A., Tjoa, A. M., Detter, K. & Raffai, M. (eds.). Springer, p. 55-64 10 p. (Lecture Notes in Business Information Processing; vol. 375).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > 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

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).

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

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

Taivalsaari, A., Mikkonen, T., Pautasso, C. & Systä, K., 2019, *Web Information Systems and Technologies - 14th International Conference, WEBIST 2018, Revised Selected Papers*. Escalona, M. J., Domínguez Mayo, F., Majchrzak, T. A. & Monfort, V. (eds.). Springer, p. 1-24 24 p. (Lecture Notes in Business Information Processing; vol. 372).

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

Color Constancy Convolutional Autoencoder

Laakom, F., Raitoharju, J., Iosifidis, A., Nikkanen, J. & Gabbouj, M., 2019, *2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019*. IEEE, p. 1085-1090 6 p. 9002684

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

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

Orelma, H., 2019, In : *Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki*. 23, 3, p. 452-463 12 p.

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

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

Stockrahm, A., Lahtinen, V., Kangas, J. J. J. & Kotiuga, P. R., 2019, (Accepted/In press) In : *Computers and Mathematics with Applications*.

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.

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

On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification

Raitoharju, J. & Meissner, K., 2019, *2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019*. IEEE, p. 1338-1343 6 p. 9002975

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > 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

Enhanced multiaxial fatigue criterion that considers stress gradient effects

Ottosen, N. S., Ristinmaa, M. & Kouhia, R., 1 Nov 2018, In : *International Journal of Fatigue*. 116, p. 128-139 12 p.
Research output: Contribution to journal > 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

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

Pantsar, T., Rissanen, S., Dauch, D., Laitinen, T., Vattulainen, I. & Poso, A., 10 Sep 2018, In : *PLoS Computational Biology*. 14, 9, e1006458.
Research output: Contribution to journal > Article > Scientific > peer-review

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

Ortombina, L., Liegmann, E., Karamanakos, P., Tinazzi, F., Zigliotto, M. & Kennel, R., 10 Sep 2018, *2018 IEEE 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018*. IEEE, 8 p. 8460173
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Structural Similarity Index with Predictability of Image Blocks

Ponomarenko, M., Egiazarian, K., Lukin, V. & Abramova, V., 10 Sep 2018, *2018 IEEE 17th International Conference on Mathematical Methods in Electromagnetic Theory, MMET 2018 - Proceedings*. IEEE COMPUTER SOCIETY PRESS, Vol. 2018-July. p. 115-118 4 p. 8460285
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > 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.
Research output: Contribution to journal > Article > Scientific > peer-review

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

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

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

Lenarduzzi, V., Stan, A. C., Taibi, D., Venters, G. & Windegger, M., Jan 2018, *Software Quality: Methods and Tools for Better Software and Systems - 10th International Conference, SWQD 2018, Proceedings*. Springer-Verlag Berlin Heidelberg, p. 133-143 11 p. (Lecture Notes in Business Information Processing; vol. 302).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > 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).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > 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.

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

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.

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

Model-Based Dynamic Scheduling for Multicore Signal Processing

Wu, J., Blattner, T., Keyrouz, W. & Bhattacharyya, S. S., 2018, In : *Journal of Signal Processing Systems*. p. 1-14 14 p.

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

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

Enkavi, G., Mikkolainen, H., Güngör, B., Ikonen, E. & Vattulainen, I., 1 Oct 2017, In : *PLoS Computational Biology*. 13, 10, e1005831.

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

Business Model Innovation of Startups Developing Multisided Digital Platforms

Still, K., Seppänen, M., Korhonen, H., Valkokari, K., Suominen, A. & Kumpulainen, M., 17 Aug 2017, *Proceedings - 2017 IEEE 19th Conference on Business Informatics, CBI 2017*. IEEE, p. 70-75 6 p.

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

Atomistic fingerprint of hyaluronan-CD44 binding

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

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

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

Yoo, S. K., Cotton, S. L., Sofotasios, P. C., Matthaiou, M., Valkama, M. & Karagiannidis, G. K., 1 Jul 2017, In : *IEEE Communications Letters*. 21, 7, p. 1661-1664 4 p.

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

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

Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture

Hussain, W., Hoffmann, H., Ahonen, T. & Nurmi, J., Jun 2017, In : *Journal of Signal Processing Systems*. 87, 3, p. 287-297 11 p.

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

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

Taibi, D., Lenarduzzi, V., Janes, A., Liukkunen, K. & Ahmad, M. O., 2017, *Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings*. Springer Verlag, p. 68-83 16 p. (Lecture Notes in Business Information Processing; vol. 283).

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

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

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

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

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

Wu, D., Coatanea, E. & Wang, G. G., 2017, *43rd Design Automation Conference*. The American Society of Mechanical Engineers ASME

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

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).

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

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

Kim, S. C. & Bhattacharyya, S. S., 2017, In : *Journal of Signal Processing Systems*. 89, 3, p. 445–455 11 p.

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

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*. Quintela, P., Barral, P., Gómez, D., Pena, F. J., Rodríguez, J., Salgado, P. & Vázquez-Méndez, M. E. (eds.). Springer International Publishing, (Mathematics in industry; vol. 26).

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

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

Lindroos, M., Laukkanen, A., Cailletaud, G. & Kuokkala, V-T., 2017, In : *International Journal of Solids and Structures*. 125, p. 68-76

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

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

Li, K., Ghazi, A., Tarver, C., Boutellier, J., Abdelaziz, M., Anttila, L., Juntti, M., Valkama, M. & Cavallaro, J. R., 2017, In : *Journal of Signal Processing Systems*. 89, 3, p. 417–430 14 p.

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

Sir distribution in D2D environment with non-stationary mobility of users

Fedorov, S., Orlov, Y., Samuylov, A., Moltchanov, D., Gaidamaka, Y., Samouylov, K. & Shorgin, S., 2017, *Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017*. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, p. 720-725 6 p.

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

Technostress and social networking services: Uncovering strains and their underlying stressors

Salo, M., Pirkkalainen, H. & Koskelainen, T., 2017, *Nordic Contributions in IS Research - 8th Scandinavian Conference on Information Systems, SCIS 2017, Proceedings*. Springer Verlag, p. 41-53 13 p. (Lecture Notes in Business Information Processing; vol. 294).

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

Time-dependent SIR modeling for D2D communications in indoor deployments

Orlov, Y., Zenyuk, D., Samuylov, A., Moltchanov, D., Andreev, S., Romashkova, O., Gaidamaka, Y. & Samouylov, K., 2017, *Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017*. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, p. 726-731 6 p.

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

Search reliability and search efficiency of combined Lévy-Brownian motion: Long relocations mingled with thorough local exploration

Palyulin, V. V., Chechkin, A. V., Klages, R. & Metzler, R., 8 Sep 2016, In : Journal of Physics A: Mathematical and Theoretical. 49, 39, 394002.

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

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

Simulation studies of DFB laser longitudinal structures for narrow linewidth emission

Virtanen, H., Uusitalo, T. & Dumitrescu, M., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 153-154 2 p.

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

Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers

Uusitalo, T., Virtanen, H. & Dumitrescu, M., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 79-80 2 p. 7547038

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

Optimization of Flexible Filter Banks Based on Fast Convolution

Yli-Kaakinen, J. & Renfors, M., Aug 2016, In : Journal of Signal Processing Systems. 85, 1, p. 101-111

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

Acoustic Modelling

Pohjolainen, S. & Suutala, A., 30 Jun 2016, *Mathematical Modelling*. Pohjolainen, S. (ed.). Switzerland: Springer, p. 185-205 21 p.

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

On prediction of DCT-based denoising efficiency under spatially correlated noise conditions

Rubel, O., Lukin, V. & Egiazarian, K., 12 Apr 2016, *2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET)*. IEEE, p. 750-754 5 p.

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

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

Korkiakoski, S., Brøndsted, P., Sarlin, E. & Saarela, O., 1 Apr 2016, In : International Journal of Fatigue. 85, p. 114-129 16 p.

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

Lean manufacturing methods in simulation literature: Review and association analysis

Tokola, H., Niemi, E. & Väistö, V., 16 Feb 2016, *2015 Winter Simulation Conference (WSC)*. p. 2239-2248 10 p.

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., Myllys, M., Turpeinen, T., Robertsén, F., Westerholm, J. & Timonen, J., 1 Jan 2016, In : Journal of Computational Science. 12, p. 62-76 15 p.

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

Canelas, P., Martins, L., Mora, A., S. Ribeiro, A. & Fonseca, J., 2016, *SIMULTECH 2016 - Proceedings of the 6th International Conference on Simulation and Modeling Methodologies, Technologies and Applications*. SCITEPRESS, p. 44-55 12 p.

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

Comb Model with Slow and Ultraslow Diffusion

Sandev, T., Iomin, A., Kantz, H., Metzler, R. & Chechkin, A., 2016, In : *Mathematical Modelling of Natural Phenomena*. 11, 3, p. 18-33 16 p.

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

Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of 'Software Ecosystem'

Suominen, A., Hyrnsalmi, S. & Seppänen, M., 2016, *Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings*. Springer Verlag, p. 32-46 15 p. (Lecture Notes in Business Information Processing; vol. 240).

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

IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor

Aghababaeetafreshi, 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

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

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

Sir analysis in square-shaped indoor premises

Samuylov, A., Moltchanov, D., Gaidamaka, Y., Begishev, V., Kovalchukov, R., Abaev, P. & Shorgin, S., 2016, *Proceedings - 30th European Conference on Modelling and Simulation, ECMS 2016*. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, p. 692-697 6 p.

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

Software vulnerability life cycles and the age of software products: An empirical assertion with operating system products

Ruohonen, J., Hyrnsalmi, S. & Leppänen, V., 2016, *Advanced Information Systems Engineering Workshops - CAiSE 2016 International Workshops, Proceedings*. Springer Verlag, p. 207-218 12 p. (Lecture Notes in Business Information Processing; vol. 249).

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

Target tracking via combination of particle filter and optimisation techniques

Hosseini, S. S. S., Jamali, M. M., Astola, J. & Gorsevski, P. V., 2016, In : *International Journal of Mathematical Modelling and Numerical Optimization*. 7, 2, p. 212-229 18 p.

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

To network or not to network? Analysis of the Finnish software industry-A networking approach

Yrjönkoski, K., Helander, N. & Jaakkola, H., 2016, *Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings*. Springer Verlag, p. 124-134 11 p. (Lecture Notes in Business Information Processing; vol. 240).

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

Towards a lean approach to reduce code smells injection: An empirical study

Taibi, D., Janes, A. & Lenarduzzi, V., 2016, *Agile Processes in Software Engineering and Extreme Programming - 17th International Conference, XP 2016, Proceedings*. Springer Verlag, (Lecture Notes in Business Information Processing; vol.

251).

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

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).

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

Reconfigurable computing for future vision-capable devices

López, M. B., Nieto, A., Silván, O., Bóutellier, J. & Vilariño, D. L., 22 Dec 2015, *Proceedings - 2015 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, SAMOS 2015*. Institute of Electrical and Electronics Engineers Inc., p. 34-41 8 p. 7363657

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

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

Karamanakos, P., Geyer, T. & Kennel, R., 16 Dec 2015, *2015 54th IEEE Conference on Decision and Control, CDC 2015*. p. 3663-3668 6 p.

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

Hermitian one-particle density matrix through a semiclassical gradient expansion

Bencheikh, K. & Räsänen, E., 9 Dec 2015, In : *Journal of Physics A: Mathematical and Theoretical*. 49, 1, 015205.

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

Quantifying the non-ergodicity of scaled Brownian motion

Safdari, H., Cherstvy, A. G., Chechkin, A. V., Thiel, F., Sokolov, I. M. & Metzler, R., 18 Sep 2015, In : *Journal of Physics A: Mathematical and Theoretical*. 48, 37, 375002.

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

Software evolution and time series volatility: An empirical exploration

Ruohonen, J., Hyrynsalmi, S. & Leppänen, V., 30 Aug 2015, *14th International Workshop on Principles of Software Evolution, IWPSE 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

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.

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

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

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

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

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

Matos Simoes, R. D., Dalleau, S., Williamson, K. E. & Emmert-Streib, F., 14 May 2015, In : *BMC Systems Biology*. 9, 21.

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

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

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

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.

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

Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India
Nix, E., Das, P., Taylor, J. & Davies, M., 1 Jan 2015, *Proceedings of the 2014 Building Simulation and Optimization Conference*. p. 2093-2100 8 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › 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.

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

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

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).

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

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

Järvi, A., Taajamaa, V. & Hyrynsalmi, S., 2015, *Software Business - 6th International Conference, ICSOB 2015, Proceedings*. Springer Verlag, Vol. 210. p. 230-244 15 p. (Lecture Notes in Business Information Processing; vol. 210).

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

Passive condition pre-enforcement for rights exporting

Lu, W., Nummenmaa, J. & Zhang, Z., 2015, *Perspectives in Business Informatics Research - 14th International Conference, BIR 2015, Proceedings*. Springer Verlag, Vol. 229. p. 241-254 14 p. (Lecture Notes in Business Information Processing; vol. 229).

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

The assessment of constructability: BIM cases

Tauriainen, M., Puttonen, J., Saari, A., Laakso, P. & Forsblom, K., 2015, *eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the 10th European Conference on Product and Process Modelling, ECPPM 2014*. CRC Press/Balkema, p. 55-61 7 p.

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

UX work in startups: Current practices and future needs

Hokkanen, L. & Väänänen-Vainio-Mattila, K., 2015, *Agile Processes in Software Engineering and Extreme Programming: 16th International Conference, XP 2015, Helsinki, Finland, May 25-29, 2015, Proceedings*. Springer Verlag, Vol. 212. p. 81-92 12 p. (Lecture Notes in Business Information Processing; vol. 212).

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

Wealthy, healthy and/or happy —what does 'ecosystem health' stand for?

Hyrynsalmi, S., Seppänen, M., Nokkala, T., Suominen, A. & Järvi, A., 2015, *6th International Conference on Software Business, ICSOB 2015; Braga; Portugal; 10 June 2015 through 12 June 2015*. Springer Verlag, Vol. 210. p. 272-287 16 p. (Lecture Notes in Business Information Processing; vol. 210).

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

Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms

Marinho, P., Vermandel, M., Bourgeois, P., Lejeune, J. P., Mordon, S. & Thines, L., 20 Dec 2014, In : SIMULATION IN HEALTHCARE. 9, 6, p. 370-376 7 p.

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

An origami inspired reconfigurable spiral antenna

Saintsing, C. D., Cook, B. S. & Tentzeris, M. M., 2014, *38th Mechanisms and Robotics Conference*. The American Society of Mechanical Engineers ASME, Vol. 5B.

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

Graph based representation and analyses for conceptual stages

Coatanéa, E., Nonsiri, S., Christophe, F. & Mokammel, F., 2014, *34th Computers and Information in Engineering Conference*. The American Society of Mechanical Engineers ASME, Vol. 1A.

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

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

Spectral modeling of time series with missing data

Rodrigues, P. C. & de Carvalho, M., 1 Apr 2013, In : Applied Mathematical Modelling. 37, 7, p. 4676-4684 9 p.

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

Using building simulation to model the drying of flooded building archetypes

Taylor, J., Biddulph, P., Davies, M., Ridley, I., Mavrogianni, A., Oikonomou, E. & Lai, K. M., 1 Mar 2013, In : JOURNAL OF BUILDING PERFORMANCE SIMULATION. 6, 2, p. 119-140 22 p.

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

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

Zaki, G. F., Plishker, W., Bhattacharyya, S. S., Clancy, C. & Kuykendall, J., Feb 2013, In : Journal of Signal Processing Systems. 70, 2, p. 177-191 15 p.

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

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.

Research output: Contribution to journal › Article › 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

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

Desnos, K., Pelcat, M., Nezan, J. F., Bhattacharyya, S. S. & Aridhi, S., 2013, *Proceedings - 2013 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2013*. IEEE COMPUTER SOCIETY PRESS, p. 41-48 8 p. 6621104

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

Theory driven design and real proto typing of biomass pyrolytic stove

Ogeya, M. C., Coatanéa, E. & Medyna, G., 2013, *Proceedings of the International Conference on Engineering Design, ICED*. Vol. 9 DS75-09. p. 69-78 10 p.

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

Towards an approach for evaluating the quality of requirements

Mokammel, F., Coatanéa, E., Christophe, F., Ba Khouya, M. & Medyna, G., 2013, *33rd Computers and Information in Engineering Conference*. American Society of Mechanical Engineers, Vol. 2 B. V02BT02A024

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

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.

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

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

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

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

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

Kalimeri, M., Constantoudis, V., Papadimitriou, C., Karamanos, K., Diakonos, F. K. & Papageorgiou, H., Sep 2012, In : *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*. 22, 9, 1250223.

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

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.

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

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

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

Min, J., Xiang, Z., Zhiming, Z. & Tentzeris, M. M., 2012, In : *JOURNAL OF GREY SYSTEM*. 24, 1, p. 15-28 14 p.

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

Characterizing trustworthy digital rights exporting

Lu, W., Zhang, Z. & Nummenmaa, J., 2012, *Perspectives in Business Informatics Research - 11th International Conference, BIR 2012, Proceedings*. Springer Verlag, Vol. 128 LNBIP. p. 85-95 11 p. (Lecture Notes in Business Information Processing; vol. 128 LNBIP).

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

Performance evaluation of a flow control algorithm for network-on-chip

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

Reconfigurable miniature sensor nodes for condition monitoring

Nylanden, T., Boutellier, J., Nikunen, K., Hannuksela, J. & Silven, O., 2012, *Proceedings - 2012 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2012*. p. 113-119 7 p. 6404164

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

Revenue models of application developers in android market ecosystem

Hyrnsalmi, S., Suominen, A., Mäkilä, T., Järvi, A. & Knuutila, T., 2012, *Software Business - Third International Conference, ICSOB 2012, Proceedings*. Springer Verlag, p. 209-222 14 p. (Lecture Notes in Business Information Processing; vol. 114).

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

The development of constructability using BIM as an intensifying technology

Tauriainen, M., Mero, A. K., Lemström, A., Puttonen, J. & Saari, A., 2012, *eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the European Conference on Product and Process Modelling 2012, ECPPM 2012*. p. 713-716 4 p.

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

Timely report production from WWW data sources

Niinimäki, M., Niemi, T., Martin, S., Nummenmaa, J. & Thanisch, P., 2012, *Workshops on Business Informatics Research, BIR 2011 International Workshops and Doctoral Consortium, Revised Selected Papers*. Springer Verlag, Vol. 106 LNBIP. p. 184-195 12 p. (Lecture Notes in Business Information Processing; vol. 106 LNBIP).

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

Towards usability heuristics for games utilizing speech recognition

Halonen, A., Hyrynsalmi, S., Kimppa, K. K., Knuutila, T., Smed, J. & Hakonen, H., 2012, *4th Asian Conference on Intelligent Games and Simulation, GAME-ON ASIA 2012 - 4th Asian Simulation Technology Conference, ASTEC 2012*. EUROSIS, p. 51-55 5 p.

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

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

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

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

Networks for systems biology: Conceptual connection of data and function

Emmert-Streib, F. & Dehmer, M., May 2011, In : *IET Systems Biology*. 5, 3, p. 185-207 23 p.

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

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.

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

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.

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

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.

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

Exploiting statically schedulable regions in dataflow programs

Gu, R., Janneck, J. W., Raulet, M. & Bhattacharyya, S. S., Apr 2011, In : *Journal of Signal Processing Systems*. 63, 1, p. 129-142 14 p.

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

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

Lavazza, L., Morasca, S., Taibi, D. & Tosi, D., 2011, *Web Information Systems and Technologies - 7th International Conference, WEBIST 2011, Revised Selected Papers*. Springer Verlag, p. 149-162 14 p. (Lecture Notes in Business Information Processing; vol. 101 LNBIP).

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

Topological patterns for scalable representation and analysis of dataflow graphs

Sane, N., Kee, H., Seetharaman, G. & Bhattacharyya, S. S., 2011, In : *Journal of Signal Processing Systems*. 65, 2, p. 229-244 16 p.

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

Using the entity-attribute-value model for olap cube construction

Thanisch, P., Niemi, T., Niinimäki, M. & Nummenmaa, J., 2011, *Perspectives in Business Informatics Research - 10th International Conference, BIR 2011, Proceedings*. Springer Verlag, Vol. 90 LNBIP. p. 59-72 14 p. (Lecture Notes in Business Information Processing; vol. 90 LNBIP).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › 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.

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

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

Emmert-Streib, F. & Altay, G., Jul 2010, In : *IET Systems Biology*. 4, 4, p. 277-288 12 p., ISBEAT000004000004000277000001.

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

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

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

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

Hierarchical coordination of periodic genes in the cell cycle of *Saccharomyces cerevisiae*

Emmert-Streib, F. & Dehmer, M., 20 Jul 2009, In : *BMC Systems Biology*. 3, 76.

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

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

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

Emmert-Streib, F. & Dehmer, M., 19 Mar 2009, In : *BMC Systems Biology*. 3, 35.

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

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

Algorithmic computation of knot polynomials of secondary structure elements of proteins

Emmert-Streib, F., 1 Oct 2006, In : *Journal of Computational Biology*. 13, 8, p. 1503-1512 10 p.

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

Possible structures of nonstoichiometric tin oxide: The composition Sn₂O₃

Mäki-Jaskari, M. A. & Rantala, T. T., Jan 2004, In : *Modelling and Simulation in Materials Science and Engineering*. 12, 1, p. 33-41 9 p.

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

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.

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

Dynamics of a buck converter with a constant power load

Grigore, V., Hatonen, J., Kyyra, J. & Suntio, T., 1 Jan 1998, *PESC 1998 - 29th Annual IEEE Power Electronics Specialists Conference*. Institute of Electrical and Electronics Engineers Inc., p. 72-78 7 p. 701881. (PESC Record - IEEE Annual Power Electronics Specialists Conference; vol. 1).

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