

### **Does migrating a monolithic system to microservices decrease the technical debt?**

Lenarduzzi, V., Lomio, F., Saarimäki, N. & Taibi, D., 2020, In : *Journal of Systems and Software*. 169, 16 p., 110710.  
Research output: Contribution to journal › Review Article › Scientific › peer-review

### **Some background on dialogue management and conversational speech for dialogue systems**

Wilks, Y., Catizone, R., Worgan, S. & Turunen, M., Apr 2011, In : *Computer Speech and Language*. 25, 2, p. 128-139 12 p.  
Research output: Contribution to journal › Review Article › Scientific › peer-review

### **1-D Convolutional Neural Networks for Signal Processing Applications**

Kiranyaz, S., Ince, T., Abdeljaber, O., Avci, O. & Gabbouj, M., 1 May 2019, *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE, p. 8360-8364 5 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **2nd international workshop on pervasive eye tracking and mobile eye-based interaction (PETMEI 2012): Proposal for a workshop (mini-track) at UbiComp 2012**

Bulling, A., Brône, G., Cheng, S. & Majaranta, P., 2012, *UbiComp'12 - Proceedings of the 2012 ACM Conference on Ubiquitous Computing*. p. 673-676 4 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **A comparison of security assurance support of agile software development methods**

Rindell, K., Hyrynsalmi, S. & Leppänen, V., 25 Jun 2015, *Computer Systems and Technologies - 16th International Conference, CompSysTech 2015: Proceedings*. Association for Computing Machinery, Vol. 1008. p. 61-68 8 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **A convolutional neural network approach for acoustic scene classification**

Valenti, M., Squartini, S., Diment, A., Parascandolo, G. & Virtanen, T., 30 Jun 2017, *2017 International Joint Conference on Neural Networks, IJCNN 2017*. IEEE, p. 1547-1554 8 p.  
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### **Adaptive Normalization for Forecasting Limit Order Book Data Using Convolutional Neural Networks**

Passalis, N., Tefas, A., Kannianen, J., Gabbouj, M. & Iosifidis, A., 1 May 2020, *2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings*. IEEE, p. 1713-1717 5 p. (ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings; vol. 2020-May).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Adaptive spatial resolution selection for stereoscopic video compression with MV-HEVC: A frequency based approach**

Aflaki, P., Hannuksela, M. M. & Gabbouj, M., 5 Feb 2015, *2014 IEEE International Symposium on Multimedia, ISM 2014, 10-12 Dec. 2014, Taichung*. The Institute of Electrical and Electronics Engineers, Inc., p. 267-270 4 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Additional lossless compression of JPEG images based on BPG**

Ponomarenko, M., Miroshnichenko, O., Lukin, V. & Egiazarian, K., 13 Jan 2019, *Image Processing: Algorithms and Systems XVII*. (IS and T International Symposium on Electronic Imaging Science and Technology).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **A design framework for mapping vectorized synchronous dataflow graphs onto CPU-GPU platforms**

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### **A design tool for high performance image processing on multicore platforms**

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#### **'Aie-studio' - A pragmatist aesthetic approach for procedural sound design**

Luhtala, M., Turunen, M., Hakulinen, J. & Keskinen, T., 2013, *Proceedings of the 8th Audio Mostly: A Conference on Interaction with Sound, AM 2013 - In Cooperation with ACM SIGCHI*. Association for Computing Machinery, 7  
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#### **A joint target localization and classification framework for sensor networks**

Lee, K., Riggan, B. S. & Bhattacharyya, S. S., 10 Sep 2018, *2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings*. Institute of Electrical and Electronics Engineers Inc., Vol. 2018-April. p. 3076-3080 5 p. 8462641  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A k-nearest neighbor multilabel ranking algorithm with application to content-based image retrieval**

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#### **A lightweight many-to-many authentication protocol for near field communications**

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

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#### **A movable immaterial volumetric display**

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#### **A multi-agent approach for processing industrial enterprise data**

Mohammed, W. M., Ferrer, B. R., Martinez, J. L., Sanchis, R., Andres, B. & Agostinho, C., 2 Feb 2018, *2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings*. IEEE, p. 1209-1215 7 p.  
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#### **An accumulative fusion architecture for discriminating people and vehicles using acoustic and seismic signals**

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#### **Analyzing Forty years of software maintenance models**

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#### **An approach to production scheduling optimization a case of an oil lubrication and hydraulic systems manufacturer**

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#### **An empirical investigation of perceived reliability of open source Java programs**

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**An evaluation framework for cross-platform mobile app development tools: A case analysis of adobe PhoneGap framework**

Ahti, V., Hyrynsalmi, S. & Nevalainen, O., 23 Jun 2016, *Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings*. Association for Computing Machinery, Vol. 1164. p. 41-48 8 p.  
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**An exploratory study of eye typing fundamentals: Dwell time, text entry rate, errors, and workload**

Räihä, K. J. & Ovaska, S., 2012, *Conference Proceedings - The 30th ACM Conference on Human Factors in Computing Systems, CHI 2012*. p. 3001-3010 10 p.  
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**Antroposeeni - A mixed reality game**

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**A preliminary network analysis on steam game tags: Another way of understanding game genres**

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**Are SonarQube Rules Inducing Bugs?**

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**A State Space Tool for Concurrent System Models Expressed In C++**

Valmari, A., 14 Dec 2015, *SPLST 2015 Symposium on Programming Languages and Software Tools: Proceedings of the 14th Symposium on Programming Languages and Software Tools (SPLST'15) Tampere, Finland, Oct 9-10, 2015*. Nummenmaa, J., Sievi-Korte, O. & Mäkinen, E. (eds.). CEUR-WS.org, Vol. 1525. p. 91-105 15 p. 7. (CEUR Workshop Proceedings; vol. 1525).  
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**A survey on aims and environments of diversification and obfuscation in software security**

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**A time-optimal bounded velocity path-following controller for generic Wheeled Mobile Robots**

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**Augmenting Technology Trees: Automation and Tool Support**

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**Barriers for bridging interpersonal gaps: Three inspirational design patterns for increasing collocated social interaction**  
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#### **Bit-sliced binary normal basis multiplication**

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#### **Blind estimation of white Gaussian noise variance in highly textured images**

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#### **BM3D-HVS: Content-Adaptive denoising for improved visual quality**

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#### **Body-touching: An embodied interaction technique for health information systems in developing regions**

Sharma, S., Srivastava, S., Sorathia, K., Hakulinen, J., Heimonen, T., Turunen, M. & Rajput, N., 4 Nov 2014, *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, p. 49-56 8 p.

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#### **Briefing news reporting with mobile assignments - Perceptions, needs and challenges**

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### **Checking visual data flow programs with finite process models**

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### **Children designing videos: Tools, pedagogical models, and best practices for digital storytelling and media-making in the classroom**

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### **Classification of iPSC colony images using hierarchical strategies with support vector machines**

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

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### **Code notes: Designing a low-cost tangible coding tool for/with children**

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### **Collaboration change in enterprise software development**

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### **Collaborative cloud-based management of home networks**

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### **Collaborative filtering based on group coordinates for smoothing and directional sharpening**

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#### **Collaborative navigation in virtual worlds: How gender and game experience influence user behavior**

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#### **Collecting usage data for software development: Selection framework for technological approaches**

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#### **Color game: A collaborative social robotic game for icebreaking; Towards the design of robotic ambiances as part of smart building services**

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#### **Combined local and global image enhancement algorithm**

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#### **Combined no-reference IQA metric and its performance analysis**

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#### **Comparing communication effort within the scrum, scrum with Kanban, XP, and Banana development processes**

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#### **Comparison of video-based pointing and selection techniques for hands-free text entry**

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#### **Compression of signs of DCT coefficients for additional lossless compression of JPEG images**

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#### **Configurable, resource-optimized FFT architecture for OFDM communication**

Cho, I., Shen, C. C., Tachwali, Y., Hsu, C. J. & Bhattacharyya, S. S., 18 Oct 2013, *2013 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2013 - Proceedings*. p. 2746-2750 5 p. 6638156

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#### **Configuring and visualizing the data resources in a cloud-based data collection framework**

Mohammed, W. M., Ferrer, B. R., Jose, L., Lastra, M., Aleixo, D. & Agostinho, C., 2 Feb 2018, *2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings*. IEEE, p. 1201-1208 8 p.

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#### **Continuous Edgewise: Dictionary-based disambiguation instead of explicit segmentation by the user**

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#### **Controlled experiments comparing fault-tree-based safety analysis techniques**

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#### **Conversion of sparsely-captured light field into alias-free fullparallax multiview content**

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#### **Convex Energy Optimization of Streaming Applications for MPSoCs**

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#### **Coordinating proactive social devices in a mobile cloud: Lessons learned and a way forward**

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#### **Database-driven tool support for DisCo executable specifications**

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### **Interaction strategies for an affective conversational agent**

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### **Is Texture Denoising Efficiency Predictable?**

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

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**Towards detecting structural branching and cyclicity in graphs: A polynomial-based approach**

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**Urban 3D segmentation and modelling from street view images and LiDAR point clouds**

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**Zeffiro User Interface for Electromagnetic Brain Imaging: a GPU Accelerated FEM Tool for Forward and Inverse Computations in Matlab**

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