

### **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).  
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### **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**

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#### **A joint target localization and classification framework for sensor networks**

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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**

Zhang, H., Kiranyaz, S. & Gabbouj, M., 16 Jun 2017, *2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings*. IEEE, p. 2587-2591 5 p.  
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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.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **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**

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

### **An exploratory study of eye typing fundamentals: Dwell time, text entry rate, errors, and workload**

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### **Antroposeeni - A mixed reality game**

Luhtala, M., Karvonen, T., Pylväs, J., Ala-Kokko, A., Magica, R., Takeda, Y. & Turunen, M., 22 Sep 2015, *ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference*. Association for Computing Machinery, Inc, p. 211-213 3 p.

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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?**

Lenarduzzi, V., Lomio, F., Huttunen, H. & Taibi, D., 1 Feb 2020, *SANER 2020 - Proceedings of the 2020 IEEE 27th International Conference on Software Analysis, Evolution, and Reengineering*. Kontogiannis, K., Khomh, F., Chatzigeorgiou, A., Fokaefs, M-E. & Zhou, M. (eds.). IEEE, p. 501-511 11 p.

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

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### **A survey on aims and environments of diversification and obfuscation in software security**

Hosseinzadeh, S., Rauti, S., Laurén, S., Mäkelä, J. M., Holvitie, J., Hyrynsalmi, S. & Leppänen, V., 23 Jun 2016, *Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings*. Association for Computing Machinery, Vol. 1164. p. 113-120 8 p.

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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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#### **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**

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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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#### **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**

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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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#### **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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**IntentRadar: Search user interface that anticipates user's search intents**

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**Investigation of egocentric social structures for diversity-enhancing followee recommendations**

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#### **Data-driven stream mining systems for computer vision**

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