

### **Tailored gamification: A review of literature**

Klock, A. C. T., Gasparini, I., Pimenta, M. S. & Hamari, J., 1 Dec 2020, In : International Journal of Human Computer Studies. 144, 102495.

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

### **The effect of challenge-based gamification on learning: An experiment in the context of statistics education**

Legaki, N. Z., Xi, N., Hamari, J., Karpouzis, K. & Assimakopoulos, V., 1 Dec 2020, In : International Journal of Human Computer Studies. 144, 102496.

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

### **Some SonarQube issues have a significant but small effect on faults and changes. A large-scale empirical study**

Lenarduzzi, V., Saarimäki, N. & Taibi, D., Dec 2020, In : Journal of Systems and Software. 170, 15 p., 110750.

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

### **Necessary and sufficient conditions for the existence of solution of generalized fuzzy relation equations $A \Leftrightarrow X = B$**

Turunen, E., 1 Oct 2020, In : Information Sciences. 536, p. 351-357 7 p.

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

### **Using Deep Learning for price prediction by exploiting stationary limit order book features**

Tsantekidis, A., Passalis, N., Tefas, A., Kannianen, J., Gabbouj, M. & Iosifidis, A., 1 Aug 2020, In : Applied Soft Computing Journal. 93, 106401.

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

### **Flow-bounded trajectory-scaling algorithm for hydraulic robotic manipulators**

Lampinen, S., Niemi, J. & Mattila, J., 1 Jul 2020, *2020 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM 2020*. IEEE, p. 619-624 6 p. (IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM).

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

### **On the zeros of the partial Hosoya polynomial of graphs**

Ghorbani, M., Dehmer, M., Cao, S., Feng, L., Tao, J. & Emmert-Streib, F., 1 Jul 2020, In : Information Sciences. 524, p. 199-215 17 p.

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

### **Kvazaar 2.0: Fast and efficient open-source HEVC inter encoder**

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

### **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

### **Peer to Peer Offloading with Delayed Feedback: An Adversary Bandit Approach**

Yang, M., Zhu, H., Wang, H., Koucheryavy, Y., Samouylov, K. & Qian, H., 1 May 2020, *2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings*. IEEE, p. 5035-5039 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

### **SeCon-NG: Implementing a lightweight cryptographic library based on ECDH and ECDSA for the development of secure and privacy-preserving protocols in contiki-NG**

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

### **Gaussian mixture models for signal mapping and positioning**

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

### **Serverless: What it Is, What to Do and What Not to Do**

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

### **A custom processor for protocol-independent packet parsing**

Zolfaghari, H., Rossi, D. & Nurmi, J., 1 Feb 2020, In : *Microprocessors and Microsystems*. 72, 11 p.

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

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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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### **Demographic differences in accumulated types of capital in massively multiplayer online role-playing games**

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### **Satisfaction and willingness to consume immersive journalism: Experiment of differences between VR, 360 video, and article**

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

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#### **Anthropometric clothing measurements from 3D body scans**

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#### **Sensor-Based Cooperative Multi-Antenna Spectrum Sensing with Imperfect Reporting Channels**

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#### **FinnForest dataset: A forest landscape for visual SLAM**

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#### **IoT-CryptoDiet: Implementing a lightweight cryptographic library based on ecdh and ecdsa for the development of secure and privacy-preserving protocols in contiki-ng**

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#### **On the diffuseness of technical debt items and accuracy of remediation time when using SonarQube**

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#### **Patterns for serverless functions (Function-as-a-Service): A multivocal literature review**

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### **Software architecture design in global software development: An empirical study**

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

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### **Action-Oriented Programming Model: Collective Executions and Interactions in the Fog**

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### **Feasibility of FPGA accelerated IPsec on cloud**

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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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### **DevOps in practice: A multiple case study of five companies**

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### **The Double Shadowed $\kappa$ - $\mu$ Fading Model**

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### **Tunable VVC Frame Partitioning based on Lightweight Machine Learning**

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#### **Time Difference of Arrival Estimation of Speech Signals Using Deep Neural Networks with Integrated Time-frequency Masking**

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#### **Variance Preserving Initialization for Training Deep Neuromorphic Photonic Networks with Sinusoidal Activations**

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#### **The FitOptiVis ECSEL Project: Highly Efficient Distributed Embedded Image/Video Processing in Cyber-Physical Systems Invited Paper**

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#### **How do academics experience use of recorded audio feedback in higher education? A thematic analysis**

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#### **Analysis of an efficient parallel implementation of active-set Newton algorithm**

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**Farm detection based on deep convolutional neural nets and semi-supervised green texture detection using VIS-NIR satellite image**

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Efimushkina, T., Gabbouj, M. & Samuylov, K., 2015, In : *Automatic Control and Computer Sciences*. 48, 6, p. 345-357 13 p.

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**Cultural influence on online community use: A cross-cultural study on online exercise diary users of three nationalities**

Malinen, S. & Nurkka, P., 2015, In : International Journal of Web Based Communities. 11, 2, p. 153-169 17 p.

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**Designing an Unobtrusive Analytics Framework for Monitoring Java Applications**

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

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

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

**Dynamic text presentation in print interpreting - An eye movement study of reading behaviour**

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

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Yang, Z., Peltonen, J. & Kaski, S., 2015, In : Journal of Machine Learning Research. 38, p. 1088-1097 10 p.

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

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**Schoolchildren's user experiences on a physical exercise game utilizing lighting and audio**

Keskinen, T., Hakulinen, J., Turunen, M., Heimonen, T., Sand, A., Paavilainen, J., Parviainen, J., Yrjänäinen, S., Mäyrä, F., Okkonen, J. & Raisamo, R., 1 Dec 2014, In : Entertainment Computing. 5, 4, p. 475-484 10 p.

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### **Gaze gestures and haptic feedback in mobile devices**

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