

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

Lemmetti, A., Viitanen, M., Mercat, A. & Vanne, J., 27 May 2020, *MMSys 2020 - Proceedings of the 2020 Multimedia Systems Conference*. ACM, p. 237-242 6 p.

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

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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

Frimpong, E. & Michalas, A., 30 Mar 2020, *35th Annual ACM Symposium on Applied Computing, SAC 2020*. ACM, p. 767-769 3 p.

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

Gaussian mixture models for signal mapping and positioning

Raitoharju, M., García-Fernández, F., Hostettler, R., Piché, R. & Särkkä, S., 1 Mar 2020, In : *Signal Processing*. 168, 107330.

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

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

Nupponen, J. & Taibi, D., 1 Mar 2020, *2020 IEEE International Conference on Software Architecture Companion, ICSA-C 2020*. IEEE, p. 49-50 2 p.

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.

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

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

Li, X. & Zhang, B., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 29-30, 2020, Tampere, Finland*. ACM, p. 65-73 9 p.

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

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

Beheshtian, N., Kaipainen, K., Kähkönen, K. & Ahtinen, A., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 10-19 10 p.

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

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

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

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 › peer-review

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

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Censor-Based Cooperative Multi-Antenna Spectrum Sensing with Imperfect Reporting Channels

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

Compressive sensed video recovery via iterative thresholding with random transforms

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Does code quality affect pull request acceptance? An empirical study

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

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

Multimodal subspace support vector data description

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

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

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

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Redundancy-based visual tool center point pose estimation for long-reach manipulators

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Shearlet Transform-Based Light Field Compression under Low Bitrates

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User experience of stereo and spatial audio in 360° live music videos

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Validating effectiveness of safety requirements' compliance evaluation in process assessments

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Software architecture design in global software development: An empirical study

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Promoting local culture and enriching airport experiences through interactive storytelling

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

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

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 κ - μ Fading Model

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

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Performance analysis of single-query 6-DoF camera pose estimation in self-driving setups

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Game postmortems vs. developer Reddit AMAs: Computational analysis of developer communication

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Enabling cybersecurity incident reporting and coordinated handling for maritime sector

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Detection of Typical Pronunciation Errors in Non-native English Speech Using Convolutional Recurrent Neural Networks

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User Experience Study of 360° Music Videos on Computer Monitor and Virtual Reality Goggles

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

Public and open HEVC encoding service in the cloud

Altonen, A., Viitanen, M., Räsänen, J., Mercat, A. & Vanne, J., 18 Jun 2019, *Proceedings of the 10th ACM Multimedia Systems Conference, MMSys 2019*. ACM, p. 300-303 4 p.

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

Investigation of egocentric social structures for diversity-enhancing followee recommendations

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

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

Towards Efficient Code Generation for Exposed Datapath Architectures

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

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

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

Deep Reinforcement Learning for Financial Trading Using Price Trailing

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Deep Temporal Logistic Bag-of-features for Forecasting High Frequency Limit Order Book Time Series

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Low-latency Deep Clustering for Speech Separation

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Random Forest Oriented Fast QTBT Frame Partitioning

Amestoy, T., Mercat, A., Hamidouche, W., Bergeron, C. & Menard, D., 1 May 2019, *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE, p. 1837-1841 5 p.

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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

Al-Ars, Z., Basten, T., Beer, A., Geilen, M., Goswami, D., Jääskeläinen, P., Kadlec, J., Alejandro, M. M., Palumbo, F., Peeren, G., Pomante, L., Linden, F. V., Saarinen, J., Sääntti, T., Sau, C. & Zedda, M. K., 30 Apr 2019, *ACM International Conference on Computing Frontiers 2019, CF 2019 - Proceedings*. ACM, p. 333-338 6 p.

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

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Challenges of Multi-Factor Authentication for Securing Advanced IoT Applications

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

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

Convolutional low-resolution fine-grained classification

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

Challenges and recommended practices for software architecting in global software development

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