

# The XI Majorov International Conference on Software Engineering and Computer Systems

## The recommended papers to publish in the special issue of "Computers" journal (Indexed by Scopus)

**Attention!** The papers should contain at least 50% of new material, e.g., in the form of technical extensions; more in-depth evaluations; or additional use cases and a change of title, abstract, and keywords.

Paper title	Authors
Access control model to global infocommunication resources	Natalya Verzun, Mikhail Kolbanev and Daria Vorobeva
Agile Architecture Automata Based Approach to Monitoring Systems Development	Alexander Vodyaho, Natalia Zhukova, Michael Chervontsev and Saddam Abbas
Algorithms for Minimization of Thread Contention in Relaxed Priority Queues	Andrey Tabakov and Alexey Paznikov
Analysis of the impact of cache coherence protocol and data locality on the cost of atomic operations	Alexey Paznikov and Evgeniy Goncharenko
ANYTIME ALGORITHMS FOR PASS IMPLEMENTATION IN VIRTUAL SOCCER	Borislav Novikov and Mikhail Panteleev
Automated solution to technological problems in an information management environment	Artem Vostropyatov, Dmitry Kulikov and Kamo Abramyan
Caler. A cross-platform utility for cloud backend systems autoscaling optimization	Ilya Martynchuk and Sergei Zhmylev
Cross-lingual Training for Retrieval-based Dialogue Systems	Nikita Mamaev, Aigul Nugmanova, Mikhail Khovrichiev, Anna Bulusheva and Irina Chernykh
Data migration rate of the CRUSH-based distributed storage with dynamic topology	Alexey Vanin, Vladimir Bogatyrev, Stanislav Bogatyrev, Fabian Wahle and Sergei Liubich
Development of software and hardware complex for fire detection of gas and oil wells	Alexander Mezhenin, Vera Izvozchikova, Vladimir Shardakov, Veronika Zaporozhko and Vladimir Borisov

Paper title	Authors
E2CT: Energy Efficient Cipher Technique	Rahul Johari, Harshit Bhatia and Kalpana Gupta
Effective Implementation of the Signals Receiver MODE-S Format on the FPGA	Vasily Meltsov, Alexey Lapitsky and Nikolay Mustafin
Estimation of the sensor devices characteristics in three-dimensional space of agriculture	Tatyana Astakhova, Mikhail Kolbanev and Anna Romanova
Evaluation of the cluster operating time with the migration of virtual machines while ensuring the continuity of the computing process	Vladimir Bogatyrev and Aleksey Derkach
Exploratory Analysis of Hypertensive Patient Data for Data-Driven Modelling of Personalized Treatment Dosing	Alexander Kshenin, Anna Semakova and Nadezhda Zvartau
Fast intra mode decision for HEVC	Tien Ban Doan and Andrey Aleksandrovich Tropchenko
Flight Motion Control System for UAV	Ekaterina Kosareva, Artemii Zenkin and Ivan Kirilenko
Fuzzing testing multithreaded applications based on waiting	Oleg Doronin, Dergun Karina, Andrey Dergachev and Aglaya Ilina
Method of constructing a three-dimensional wireless coverage map	Nikolay Manaev
Multipath redundant transmissions of critical to delays packets based on UDP protocol	Ilya Noskov and Vladimir Bogatyrev
Multi-threaded data processing system based on cellular automata	Elena Kuleshova, Anatoly Marukhlenko, Vyacheslav Dobritsa and Maxim Tanygin
On Distributed Genetic Algorithm-Based Music Generation with VAE Genotype-to-Phenotype Mapping	Aleksei Shchekochikhin and Gleb Rogozinsky
On Voice Autentication Algorithm Development	Patryk Bąkowski and Dmitry Muromtsev
Personalized impact on students in MOOCs	Svyatoslav Oreshin and Liubov Lisitsyna
Personalized Recommendation Algorithm Selection Using Binary Vectors of Metadata	Alexander Nechaev, Nataly Zhukova and Vasily Meltsov
Priority service model for mobile nodes of ubiquitous sensor network	Tatyana Astakhova, Mikhail Kolbanev and Alexey Shamin
Process safety instrument system optimization by Monte-Carlo method	Aleksandr Moshnikov

Paper title	Authors
Segmentation of illuminated light areas using fully convolutional neural networks and computer vision algorithms for augmented reality systems	Maxim Sorokin, Dmitriy Zhdanov and Andrey Zhdanov
Semantic tomography: a word embedding method using quantum probability framework	Aleksei Platonov, Aleksandr Trukhanov and Igor Bessmertny
Simulation modeling of artificial neural networks	Konstantin Kormilitsyn, Kustarev Pavel and Elizaveta Kormilitsyna
Suppressing the Gibbs effect on reconstructed images	Valery Sizikov, Aleksandra Dovgan and Aleksei Lavrov
The Influence of Digital Colors Perception at Human Computer Interaction	Anastasia Mandrik, Larisa Sopronenko, Nina Rushchenko and Aleksei Lavrov
The probability of timely redundant service of requests by sequence of servers in multi-level cluster	Vladimir Bogatyrev, Stanislav Bogatyrev and Anatoly Bogatyrev
The use of a smell sensor channel in virtual reality environments	Artem Smolin, Konstantin Malyshev, Anna Spiridonova, Andrey Mironov and Yuliya Konstantinova
Trends prediction in the workshop design for science-intensive areas using machine learning technologies	Elena Boldyreva
Trust, Reputation, and Game Theory Approach to Secure Communication in a Group of Unmanned Vehicles	Sergey Chuprov, Egor Marinenkov and Ilya Viksnin
Virtual Reality in Lomonosov Moscow State University Interdisciplinary Research Illustrated by Moscow Bely Gorod Area Historical Reconstruction Example	Leonid Borodkin, Stepan Lemak, Victor Chertopolokhov, Maxim Mironenko, Sergey Chernov, Anna Kruchinina and Margarita Belousova
VR Training for Railway Wagons Maintenance	Alexandr Nikitin, Alexej Kuzhel, Ivan Sitnikov and Olesya Karelova
Web application development problems using DBMS on microcontroller platforms.	Igor Lazarev and Ilya Gosudarev