

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

## The recommended papers to publish in "CEUR Workshop Proceedings" (Indexed by Scopus)

**Attention!** The authors who are going to publish the papers also in "Proceedings of the XI Majorov International Conference on Software Engineering and Computer Systems" need to change the paper title!

Paper title	Authors
Access control model to global infocommunication resources	Natalya Verzun, Mikhail Kolbanev and Daria Vorobeva
Adaptive L1 cache prefetching algorithm for RISC-V microprocessors	Bogdana Tishuk and Sergei Bykovskii
Agile Architecture Automata Based Approach to Monitoring Systems Development	Alexander Vodyaho, Natalia Zhukova, Michael Chervontsev and Saddam Abbas
Algorithmic approaches to analysis of internet contents effect on its target audience	Andrey Zavodov and Andrey Dergachev
Algorithms for Minimization of Thread Contention in Relaxed Priority Queues	Andrey Tabakov and Alexey Paznikov
An Improved MVDR Filter Using Speech Presence Probability	Trong The Quan
Analysing text tonality: comparative study of classic ML techniques	Andrey Zvonarev and Andrey Bilyi
Analysis navigation algorithms for intelligent agent in virtual soccer	Anushervon Salimov and Michail Panteleyev
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
Application of graph databases for static code analysis of web-applications	Daniil Sadyrin, Andrey Dergachev, Ivan Loginov, Iurii Korenkov and Aglaya Ilina
Approach for vehicle model re-identification via deep visual features matching	Nikolay Nemcev and Elena Vasilenko
Aspects of software development for studying the relationship between type of thinking and facial features	Darya Panarina and Pavel Balakshin
Automated solution to technological problems in an information management environment	Artem Vostropyatov, Dmitry Kulikov and Kamo Abramyan

<b>Paper title</b>	<b>Authors</b>
Automated training laboratory bench for studies of thermophysical properties and thermal processes based on a programmable controller SDK-1.1M	Igor Baranov, Ekaterina Tambulatova, Alexey Platunov, Arkady Kluchev, Daria Pluzhnikova, Vasily Krylov and Vladislav Zhovnitsky
COMPUTER MODELING OF AN IMITATION DIGITAL IMAGE FOR A MOTION REFERENCE MARK	Tuan Pham Ngoc, Alexander N. Timofeev, Aleksandr Vasilev and Valery V. Korotaev
Cross-lingual Training for Retrieval-based Dialogue Systems	Nikita Mamaev, Aigul Nugmanova, Mikhail Khovrichev, 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
Designing a model of contexts for word-sense disambiguation in a semantic network	Egor Dubenetskiy, Evgenij Tsopa, Sergey Klimenkov and Alexander Pokid
Development of a hardware-software system for a bionic prosthesis of a human hand	Pavel Rozhkin, Kirill Markin and Alexey Platunov
Development of educational platform using Robotic automation process	Dmitry Anisimov, Elena Avksentieva and Valeriya Shulmina
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
Development of System For Detecting Parking Space Occupancy Using Deep Learning Algorithms	Artemii Zenkin, Ekaterina Kosareva and Ivan Kirilenko
E2CT: Energy Efficient Cipher Technique	Rahul Johari, Harshit Bhatia and Kalpana Gupta
EEG emotion recognition and its problems	Alexander Sergeev and Andrey Bilyi
Effective Implementation of the Signals Receiver MODE-S Format on the FPGA	Vasily Meltsov, Alexey Lapitsky and Nikolay Mustafin
Empirical Study on Modeling of Crowd Behavior in Emergency Situations	Ilya Viksnin, Julia Lyakhovenko, Nikita Tursukov, Sergey Chuprov and Ekaterina Sozinova
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 Aleksej 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

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Fuzzing testing multithreaded applications based on waiting	Oleg Doronin, Dergun Karina, Andrey Dergachev and Aglaya Ilina
Google Thread Sanitizer deadlock detection algorithm improvements	Konstantin Mazunin, Oleg Doronin and Andrey Dergachev
Graphic programming language for cyber-physical systems serving housing and communal services	Arkady Kluchev, Alexey Platunov, Vladislav Zhovnitsky, Vladislav Kluchev and Yaroslav Gorbachev
Impact of Using a Bilingual Model on Kazakh--Russian Code-Switching Speech Recognition	Dmitrii Ubskii, Yuri Matveev and Wolfgang Minker
Improving educational process management applying blockchain technology	Dina Zimina and Dmitry Mouromtsev
JavaScript animation libraries comparison	Nikita Vozisov, Ilya Gosudarev and Irina Gotskaya
Mathematical method for the synthesis of technological systems from analogue-element set	Boris S. Padun and Kirill V. Kipriianov
Method of constructing a three-dimensional wireless coverage map	Nikolay Manaev
Method of diagnosis integrated systems and communi-cation systems based on wavelet-transform thermogram of electronic modules	Vladimir Goydenko, Vladimir Goncharenko and Nina Zhuravleva
Methods and Means of Searching Errors When Working With Dynamic Memory	Andrey Dergachev, Daniil Sadyrin, Aglaia Ilina, Ivan Loginov and Iurii Korenkov
Metrical characteristics detection of attacks of routing in wireless sensor networks	Boris Sovetov and Tatiana Tatarnikova
Model of Secure Informational Messages for Confidentiality Assurance in Smart Factory Networks	Maria Usova, Sergey Chuprov, Ilya Viksnin and Oksana Baranova
MODELS AND ALGORITHMS FOR ACTION UTILITY ASSESSMENT IN VIRTUAL FOOTBALL	Daniil Kivarin and Mikhail Panteleyev
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
Node.js frameworks performance comparison	Danil Demashov and Ilya Gosudarev
Nonlinear oscillations prevention in unmanned aerial vehicle	Iuliia Zaitceva
Numeric data extraction from natural language text	Ivan Uskov, Alexander Yarkeev and Evgenij Tsopa
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

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Personalized Recommendation Algorithm Selection Using Binary Vectors of Metadata	Alexander Nechaev, Nataly Zhukova and Vasily Meltsov
Preprocessing methods of Traffic Signs images for effective classification with CNN	Valentyn Sichkar and Sergey Kolyubin
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
Research of methods for improving the quality of prediction using artificial neural networks	Kirill Uryvaev and Alena Rusak
Research on the physical characteristics of sensor devices in the digital farms	Darya Kirilova, Tatyana Astakhova and Mikhail Kolbanev
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
Solving the thermal problem in smart home systems on the LMT4Home platform	Andrey Tsaplin and Alexey Platunov
Statistical research and modeling network traffic	Tatiana Tatarnikova and Ekaterina Poymanova
Suppressing the Gibbs effect on reconstructed images	Valery Sizikov, Aleksandra Dovgan and Aleksei Lavrov
The development of management systems for horizontal scaling of applications in a heterogeneous environment	Elizaveta Kuzenkova, Iurii Korenkov, Ivan Loginov, Andrey Dergachev and Aglaya Ilina
The Influence of Digital Colors Perception at Human Computer Interaction	Anastasia Mandrik, Larisa Sopronenko, Nina Rushchenko and Aleksei Lavrov
The issue of identification of participants in the educational process in the conditions of E-learning	Dmitry Mouromtsev, Ilya Gosudarev and Stanislav Sivinskiy
The method of employee competencies management based on the ontological approach	Anna Bakanova and Aleksey Shikov
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

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TRAINING AND RESEARCH USING THE ROBOTIC PLATFORM OF THE ANTHROPOMORPHIC ROBOT GRETA 2.0	Александр Николаевич Филиппов and Сергей Александрович Филиппов
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
Universal system for finding the shortest way using a genetic algorithm and reinforcement learning	Vadim Kholoshnya and Elena Boldyreva
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