

## IDC-2019 Sessions and accepted papers

No	Authors	Title	Track	Type
<b>1 Session – Internet of Things, Cloud Computing and Big Data</b>				
7	Giancarlo Fortino, Fabrizio Messina, Domenico Rosaci and Giuseppe M.L. Sarné	Using Blockchain for Reputation-based Cooperation in Federated IoT domains	IDC 2019	FULL PAPER
23	Oleg Baranov, Nikolay Smirnov, Tatiana Smirnova and Yefim Zholobov	Design of Fail-Safe Quadcopter Configuration	IDC 2019	FULL PAPER
56	Saša Pesic, Miloš Radovanović, Mirjana Ivanovic, Costin Bădică, Milenko Tošić, Ognjen Iković and Dragan Bošcović	CAAVI-RICS Model for Analyzing the Security of Fog Computing Systems	IDC 2019	FULL PAPER
4	Vladimir Gorodetsky, Vladimir Larukchin and Petr Skobelev	Conceptual Model of Digital Platform for Enterprises of Industry 5.0	IDC 2019	SHORT PAPER
34	Maria Poltavtseva and Maxim Kalinin	Conceptual data modeling using aggregates to ensure large-scale distributed data management systems security	IDC 2019	SHORT PAPER
74	Vincenza Carchiolo, Alessandro Longheu, Michele Malgeri and Giuseppe Mangioni	Smart Topic Sharing in IoT platform based on a social inspired Broker	IDC 2019	SHORT PAPER
80	Ichiro Satoh	Easy Development of Software for IoT Systems	IDC 2019	SHORT PAPER
<b>2 Session – Data Analysis, Mining and Machine Learning</b>				
62	Fatemeh Khodaparast, Mina Sheikhalishahi, Fabio Martinelli and Hassan Haghghi	Privacy-Preserving LDA Classification over Horizontal Distributed Data	IDC 2019	FULL PAPER
76	Ivan Kholod, Andrey Shorov and Sergei Gorlatch	Improving Parallel Data Mining for Different Data Distributions in IoT Systems	IDC 2019	FULL PAPER
89	Felix Petcușin, Liana Stănescu and Costin Bădică	An Experiment on Automated Requirements Mapping Using Deep Learning Methods	IDC 2019	FULL PAPER
22	Artem Kovalev, Nikita Voinov and Igor Nikiforov	Using the Doc2Vec algorithm to detect semantically similar Jira issues in the process of resolving customer requests	IDC 2019	SHORT PAPER
28	Diogo Ramos, Davide Carneiro and Paulo Novais	evoRF: an evolutionary approach to Random Forests	IDC 2019	SHORT PAPER
64	Sergei Ivanov and Gennadiy Ilin	The Method of Fuzzy Logic and Data Mining for Monitoring Troposphere Parameters Using Ground-Based Radiometric Complex	IDC 2019	SHORT PAPER

### 3 Session – Multi-agent and Service-Based Distributed Systems

15	Yury Iskanderov and Mikhail Pautov	Actor-Network Approach to Self-Organization in Global Logistics Networks	IDC 2019	FULL PAPER
57	Jing Tan, Rongjun Xu, Colin Chen, Lars Braubach, Kai Jander and Alexander Pokahr	Multi-Agent System for Simulation of Responses to Supply Chain Disruptions	IDC 2019	FULL PAPER
3	Maria Butakova, Andrey Chernov, Ilias Savvas and Georgia Garani	Data Warehouse Design for Security Applications using Distributed Ontology-Based Knowledge Representation	IDC 2019	SHORT PAPER

### 4 Session – Distributer Algorithms and Optimization

35	Amelia Bădică, Costin Bădică, Mirjana Ivanović and Doina Logofătu	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming	IDC 2019	FULL PAPER
38	Victor Toporkov, Anna Toporkova and Dmitry Yemelyanov	Global and Private Job-Flow Scheduling Optimization in Grid Virtual Organizations	IDC 2019	FULL PAPER
1	Roman Sizov and Dan Simovici	Type-Based Genetic Algorithms	IDC 2019	SHORT PAPER
12	Tatiana Kosovskaya	Distributed construction of a level class description in the framework of logic-predicate approach to AI problems	IDC 2019	SHORT PAPER
67	Nikolay Smirnov and Alina Boiko	On Approaches for Solving Nonlinear Optimal Control Problems	IDC 2019	SHORT PAPER

### 5 Session – Modeling Operational Processes for Intelligent Distributed Computing

21	Valentin Olenev, Irina Lavrovskaya, Ilya Korobkov, Yuriy Sheynin and Nikolay Sinyov	Hierarchical simulation of onboard networks	IDC 2019	SHORT PAPER
72	Vincenza Carchiolo, Marco Grassia, Alessandro Longheu, Michele Malgeri and Giuseppe Mangioni	Strategies comparison in link building problem	IDC 2019	SHORT PAPER
73	Pavel Sharikov, Andrey Krasov, Artyom Gelfand and Nikolay Kosov	Research of the possibility of hidden embedding of a digital watermark using practical methods of channel steganography	IDC 2019	SHORT PAPER
6	Hitoshi Mitake, Hiroshi Yamada and Tatsuo Nakajima	A Highly Scalable Index Structure for Multicore In-Memory Database Systems	IDC 2019	SHORT PAPER
29	Vladimir Lokhvitskii, Yuri Ryzhikov and Andry Dudkin	Applying the Split-Join queuing system model to estimating the efficiency of detecting contamination content process in multimedia objects streams	IDC 2019	SHORT PAPER
48	Sergey Krasnov, Vladimir Lokhvitskii and Andry Dudkin	On the applicability of the modernized method of latent-semantic analysis to identify negative content in multimedia objects	IDC 2019	SHORT PAPER

### 6 Session – Advanced Methods for Social Network Analysis and Inappropriate Content Counteraction

75	Dmitry Gavra, Vladislav Dekalov and Ksenia Naumenko	Digital Subjects as New Power Actors: a Critical View on Political, Media-, and Digital Spaces Intersection	AMSNAICC	FULL PAPER
92	Lidiya Vitkova, Igor Saenko and Olga Tushkanova	An approach to creating an intelligent system for detecting and countering inappropriate information on the Internet	AMSNAICC	FULL PAPER
93	Abhishta Abhishta, Marianne Junger, Reinoud Joosten and Lambert J. M. Nieuwenhuis	A Note on Analysing the Attacker Aims Behind DDoS Attacks	AMSNAICC	FULL PAPER
39	Sergey Pilkevich and Konstantin Gnidko	Formation of the system of signs of potentially harmful multimedia objects	AMSNAICC	SHORT PAPER
81	Anastasiia Khlobystova, Maxim Abramov and Alexander Tulupyev	Soft estimates for Social engineering attack propagation probabilities depending on interaction rates among Instagram users	AMSNAICC	SHORT PAPER
83	Diana Gaifulina and Andrey Chechulin	Development of the complex algorithm for web pages classification to detection inappropriate information on the Internet	AMSNAICC	SHORT PAPER
94	Lidiya Vitkova and Maxim Kolomeets	Approach to Identification and Analysis of Information Sources in Social Networks	AMSNAICC	SHORT PAPER
97	Elena Doynikova and Igor Parashchuk	The architecture of subsystem for eliminating an uncertainty in assessment of information objects' semantic content based on the methods of incomplete, inconsistent and fuzzy knowledge processing	AMSNAICC	SHORT PAPER
106	Alexander Branitskiy, Elena Doynikova, Igor Kotenko, Natalia Krasilnikova, Dmitriy Levshun, Artem Tishkov and Nina Vanchakova	The common approach to determination of the destructive information impacts and negative personal tendencies of young generation using the neural network methods for the Internet content processing	AMSNAICC	SHORT PAPER

### 7 Session – Intelligent Distributed Computing for Cyber-Physical Security and Safety

33	Diana Gratiela Berbecaru and Cesare Cameroni	Authorize-then-Authenticate: Supporting authorization decisions prior to authentication in an electronic identity infrastructure	IDCCPSS	FULL PAPER
104	Vasily Desnitsky, Nikolay Rudavin and Igor Kotenko	Modeling and Evaluation of Battery Depletion Attacks on Unmanned Aerial Vehicles in Crisis Management Systems	IDCCPSS	FULL PAPER
108	Dmitry Levshun, Igor Kotenko and Andrey Chechulin	The Integrated Model of Secure Cyber-Physical Systems for their Design and Verification	IDCCPSS	FULL PAPER
69	Alexey Lukashin, Mikhail Popov, Anatoliy Bolshakov and Yuri Nikolashin	Scalable Data Processing Approach and Anomaly Detection Method for User and Entity Behavior Analytics Platform	IDCCPSS	SHORT PAPER
101	Anastasia Balueva, Vasily Desnitsky and Igor Ushakov	Approach to Detection of Denial-of-Sleep Attacks in Wireless Sensor Networks on the base of Machine Learning	IDCCPSS	SHORT PAPER
107	Maria Usova, Sergey Chuprov, Ilya Viksnin, Ruslan Gataullin, Antonina Komarova and Andrey Iuganson	Model of Smart Manufacturing System	IDCCPSS	SHORT PAPER

### 8 Session – Intelligent Distributed Decision Support Systems

5	Alexander Pavlov, Dmitry Pavlov and Valerii Zakharov	Technology Resolution Criterion of Uncertainty in Intelligent Distributed Decision Support Systems	IDDSS	FULL PAPER
9	Oleg Karsaev and Evgeniy Minakov	Satellite Constellation Control Based on Inter-Satellite Information Interaction	IDDSS	FULL PAPER
10	Maad Khalil, Anatoly Khomonenko and Sergey Gindin	Load Balancing Cloud Computing with Web-Interface Using Multi Channel Queuing Systems with Warming up and Cooling	IDDSS	FULL PAPER
13	Inna Trofimova, Boris Sokolov, Dmitry Nazarov Semyon Potryasaev, Andrey Musaev and Vladimir Kalinin	Application of Cyber-physical System and Real-time Control Construction Algorithm in Supply Chain Management Problem	IDDSS	FULL PAPER
14	Andrey Tyugashev and Sergei Orlov	Method for design of 'smart' spacecraft onboard decision making in case of limited onboard resources	IDDSS	FULL PAPER
16	Elena Serova	Intelligent Technologies and Systems for Spatial Industrial Strategic Planning	IDDSS	FULL PAPER
20	Alexander Geyda	Conceptual and Formal Models of Information Technologies Use for Decisions Support in Technological Systems	IDDSS	SHORT PAPER
24	Andrey Tyugashev, Alexander Kovalev, and Vjacheslav Pjatkov	Role and Future of Standards in Development of Intelligent and Dependable Control Software in Russian Space Industry	IDDSS	SHORT PAPER
27	Yuri Skobtsov, Samer El-Khatib and Sergey Rodzin	Improved Particle Swarm Medical Image Segmentation Algorithm for Decision Making	IDDSS	SHORT PAPER
40	Dmitrii Verzhilin, Tatiana Maximova and Irina Sokolova	Collecting and Processing Distributed Data for Decision Support in Social Ecology	IDDSS	SHORT PAPER
60	Vladimir Mikhailov, Alexander Spesivtsev and Andrey Perevaryukha	Evaluation of the Dynamics of Phytomass in the Tundra Zone using a Fuzzy-Opportunity Approach	IDDSS	SHORT PAPER

### 9 Session – Intelligent Human-Machine Interfaces

36	Ildar Kagiroy, Alexey Karpov, Irina Kipyatkova, Konstantin Klyuzhev, Alexander Kudryavcev, Igor Kudryavcev and Dmitry Ryumin	Lower Limbs Exoskeleton Control System Based on Intelligent Human-Machine Interface	IHMI	FULL PAPER
53	Vlado Delić, Dragiša Mišković, Branislav Popović, Milan Sečujski, Siniša Suzić, Tijana Delić and Nikša Jakovljević	Central Audio-Library of the University of Novi Sad	IHMI	FULL PAPER
95	Alena Velichko, Victor Budkov, Ildar Kagiroy and Alexey Karpov	Applying Ensemble Learning Techniques and Neural Networks to Deceptive and Truthful Information Detection Task in the Flow of Speech	IHMI	SHORT PAPER

### 10 Session – Security for Intelligent Distributed Computing – Machine Learning vs. Chains of Trust

63	Fabio Martinelli, Francesco Mercaldo, Antonella Santone, Vittoria Nardone and Gigliola Vaglini	Model Checking to Detect the Hummingbad Malware	SIDCMLCoT	FULL PAPER
85	Yannick Chevalier, Roland Rieke, Florian Fenzl, Andrey Chechulin and Igor Kotenko	ECU-Secure: Characteristic Functions for In-Vehicle Intrusion Detection	SIDCMLCoT	FULL PAPER
91	Andrew Hutchison and Andre Lopes	Experimenting with Machine Learning in Automated Intrusion Response	SIDCMLCoT	FULL PAPER
54	Alexander Grusho, Nick Grusho and Elena Timonina	Method of several information spaces for identification of anomalies	SIDCMLCoT	SHORT PAPER
77	Diethelm Bienhaus, Lukas Jäger, Roland Rieke and Christoph Krauß	Gateway for Industrial Cyber-Physical Systems with Hardware-based Trust Anchors	SIDCMLCoT	SHORT PAPER

### 11 Session – Visual Analytics in Distributed Environment

44	Yulia Shichkina, Galina Kataeva, Yulia Irishina and Elizaveta Stanevich	The architecture of the system for monitoring the status in patients with Parkinson's disease using mobile technologies	VADE	FULL PAPER
58	Yana Bekeneva, Vladimir Mochalov and Andrey Shorov	Approach to association and classification rules visualization	VADE	SHORT PAPER
59	Evgenia Novikova, Mikhail Bestuzhev and Andrey Shorov	The Visualization-driven Approach to the Analysis of the HVAC Data	VADE	SHORT PAPER