

PROGRAM

2nd International Workshop on Advanced Information and Computation Technologies and Systems
(AICTS 2021, <https://aicts.icc.ru/>)

December 6-10, 2021, Irkutsk, Russia

The languages of the workshop are English and Russian.
The schedule of events indicated Moscow time (GMT+3)

December 6, 2021	EVENT
12:00 – 12:10	OPENING CEREMONY (online) Chair: <i>Andrei Tchernykh</i> CICESE Research Center, Ensenada, México chernykh@cicese.mx Technical secretary: <i>Roman Kostromin</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, kostromin@icc.ru
	<i>Andrei Tchernykh</i> . Greetings to the workshop
12:10 – 14:10	PLENARY SESSION (online) Chairs: <i>Evgeny Cherkashin</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia eugeneai@irnok.net Technical secretary: <i>Roman Kostromin</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, kostromin@icc.ru
	12:10 <i>Zeljko Stojanov</i> . Maintainability of data-driven software systems: Review and experiences
	12:50 <i>Igor Sheremet</i> . On the correspondence of unitary multiset metagrammars and multi-objective problems of discrete polynomial programming
	13:30 <i>Evgeny Cherkashin</i> . Technologies of Semantic WEB as an environment of application development and integration
14:10 – 14:15	Break
14:15 – 15:15	SECTION I (online) Chair: <i>Zeljko Stojanov</i> University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin zeljko.stojanov@uns.ac.rs Technical secretary: <i>Roman Kostromin</i> Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia, kostromin@icc.ru
	<i>Dalibor Dobrilovic</i> , Milica Mazalica and Srdjan Popov. UAV 3D path planning methodology for building health monitoring
	<i>Sagit Valeev</i> and Natalya Kondratyeva. Analysis of Business Processes in a Distributed Organizational and Technical System Based on Snapshots

	<u>Ekaterina Bezuglova</u> , Egor Shiriaev, Mikhail G. Babenko, Andrei Tchernykh, Bernardo Pulido-Gaytan and Jorge Mario Cortés-Mendoza. A Survey on Multi-Cloud Storage Security: Threats and Countermeasures
December 7, 2021	EVENT
12:00 – 13:00	<p align="center">SECTION II (online)</p> <p align="center">Chair: Evgeny Cherkashin</p> <p align="center">Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia</p> <p align="center">eugeneai@irnok.net</p> <p>Technical secretary: <i>Roman Kostromin</i></p> <p>Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia, kostromin@icc.ru</p>
	<u>Victor Okolnishnikov</u> and Sergey Rudometov. Simulation of Underground Coal Mining Processes
	<u>Igor Skopin</u> . Simulation of Developing Systems with Active Elements
	Aleksandr Reznik, Aleksandr Tuzikov, <u>Aleksandr Soloviev</u> and Andrey Torgov. Symbolic computation programs and generalized Catalan numbers in problems of analysis of random point structures
December 8, 2021	EVENT
10:00 – 12:00	<p align="center">SECTION III (online)</p> <p align="center">Chair: Aleksey Edelev</p> <p align="center">Energy Systems Institute of SB RAS, Russia</p> <p align="center">alexedelev@gmail.com</p> <p>Technical secretary: <i>Evgeniy Fereferov</i></p> <p>Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, fereferov@icc.ru</p>
	<u>Dmitriy Karamov</u> , Ilya Minarchenko and Anton Kolosnitsyn. Hierarchical model of an energy service contract with renewable generation
	Oksana Dudareva, Yuliya Kokonova and <u>Svetlana Solodusha</u> . On the Involvement of Intelligent Technologies for Modeling of Energy Systems by Volterra Polynomials
	<u>Gleb Danilov</u> and Aleksey Edelev. A Development of Geographic Information System to Study Energy System Resilience
	<u>Natalia Beresneva</u> , Aleksey Edelev, Sergey Gorsky and Mikhail Marchenko. Comprehensive analysis of multi-energy system vulnerability
	<u>Mikhail Dunaev</u> , Sarfaroze Dovudov and Leonid Arshinskiy. Simulation of losses in autonomous inverter circuits with pulse-width and pulse-frequency modulation
<u>Mikhail Chekan</u> . Distributed environment for auctioning virtual power system resources*	
	* (the selected report from Lyapunov Readings)

December 9, 2021	EVENT
10:00 – 11:20	<p style="text-align: center;">SECTION IV (online) Chair: <i>Ivan Sidorov</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia yvan.sidorov@gmail.com</p> <p>Technical secretary: <i>Roman Kostromin</i> Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia, kostromin@icc.ru</p>
	<p><u><i>Evgeniy Fereferov</i></u>, Alexei Hmelnov and Igor Bychkov. Creation of scientific applications based on declarative specifications</p>
	<p><u><i>Artem Davydov</i></u>, Aleksandr Larionov and Nadezhda Nagul. On events processing in formal logical approach to DES control</p>
	<p>Gennady Oparin, Vera Bogdanova and <u><i>Anton Pashinin</i></u>. The Boolean Constraint Method Application for Qualitative Analysis of the Dynamical Properties of Singular Boolean Networks</p>
	<p><u>David Gercekovich</u>, <u><i>Olga Basharina</i></u>, Irina Shilnikova and Ekaterina Ivantsova. Identification of the Profitability-Risk Model Parameters on Example of Real Estate Investment Trusts</p>
	<p><u><i>Alexei Hmelnov</i></u>. Implementation of service for retrieval of fragments of vector topographic base maps*</p> <p><i>*(the selected report from Lyapunov Readings)</i></p>
11:20 – 11:30	<p style="text-align: center;">CLOSING CEREMONY (online) Chair: <i>Alexander Feoktistov</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia agf65@yandex.ru</p> <p>Technical secretary: <i>Roman Kostromin</i> Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia, kostromin@icc.ru</p>