

PROGRAM

**3rd International Workshop on Information, Computation, and Control Systems for Distributed Environments
(ICCS-DE 2021, <https://iccs-de.icc.ru/>)**

July 5-9, 2021, Irkutsk, Russia

The languages of the workshop are English and Russian.

The schedule of events indicated Moscow time (GMT+3)

July 5, 2021	EVENT
09:00 – 9:10	<p style="text-align: center;">OPENING CEREMONY (online)</p> <p style="text-align: center;">Chair: <i>Andrei Tchernykh</i> CICESE Research Center, Ensenada, México chernykh@cicese.mx</p> <p>Technical secretary: <i>Evgeniy Fereferov</i>, Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, fereferov@icc.ru</p> <p><i>Andrei Tchernykh</i>. Greetings to the workshop</p>
09:10 – 10:30	<p style="text-align: center;">PLENARY SESSION (online)</p> <p style="text-align: center;">Chair: <i>Andrei Tchernykh</i> CICESE Research Center, Ensenada, México chernykh@cicese.mx</p> <p>Technical secretary: <i>Evgeniy Fereferov</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, fereferov@icc.ru</p> <p>09:10 <i>Sergio Nesmachnow</i>. Demand response planning for the participation of datacenters in the electricity market</p> <p>09:50 <i>Zeljko Stojanov</i>. Software maintenance improvement in small software companies: Reflections on experiences</p>
10:30 – 10:35	Break
10:35 – 11:55	<p style="text-align: center;">SECTION I (online)</p> <p style="text-align: center;">Chair: <i>Zeljko Stojanov</i> University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin zeljko.stojanov@uns.ac.rs</p> <p>Technical secretary: <i>Roman Kostromin</i> Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia, kostromin@icc.ru</p> <p><i>Dalibor Dobrilovic, Milica Mazalica and Goran Geci</i>. Experience in measuring Wi-Fi to ZigBee interference using open-source hardware</p> <p><i>Alexei Hmelnov</i>. The file format SMD for representation of static map vector data</p> <p><i>Nikita Dorodnykh, Yuriy Kotlov, Olga Nikolaychuk, Vladimir Popov and Alexander Yurin</i>. End-user development of knowledge bases for semi-automated formation of task cards</p> <p><i>Sergey Kratov and Olga Sokolova</i>. About the life cycle of information systems based on open Web-technologies</p>

July 6, 2021	EVENT
09:00 – 10:20	<p style="text-align: center;">PLENARY SESSION (online) Chair: Evgeny Cherkashin Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia eugeneai@irnok.net</p> <p>Technical secretary: <i>Evgeniy Fereferov</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, fereferov@icc.ru</p> <p>09:00 <i>Igor Sheremet</i>. Multiset-based assessment of vulnerability of energy infrastructures to destructive impacts</p> <p>09:40 <i>Mikhail Babenko, Luis Bernardo Pulido-Gaytan and Andrei Tchernykh</i>. Privacy-preserving neural networks with homomorphic encryption: challenges and opportunities</p>
10:20 – 10:25	Break
10:25 – 11:45	<p style="text-align: center;">SECTION II (online) Chair: Evgeny Cherkashin Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia eugeneai@irnok.net</p> <p>Technical secretary: <i>Roman Kostromin</i> Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia, kostromin@icc.ru</p> <p><i>Mikhail Babenko, Nikolay Kucherov, Viktor Kuchukov, Elena Golimblevskaia, Ekaterina Kuchukova, Irina Vashchenko and Andrei Tchernykh</i>. Determining the rank of a number in the residue number system</p> <p><i>Nikolay Kucherov, Viktor Kuchukov, Elena Golimblevskaia, Natalia Kuchukova, Irina Vashchenko and Ekaterina Kuchukova</i>. Efficient implementation of error correction codes in modular code</p> <p><i>Nikolay Vershkov, Viktor Kuchukov, Natalia Kuchukova, Nikolay Kucherov and Egor Shiriaev</i>. Optimization of computational complexity of an artificial neural network</p> <p><i>Mikhail G. Babenko, Andrei Tchernykh, Aziz Redvanov and Anvar Djurabaev</i>. Comparative analysis of the scalar point multiplication algorithms in the NIST FIPS 186 elliptic curve cryptography</p>
July 7, 2021	EVENT
09:00 – 09:40	<p style="text-align: center;">PLENARY SESSION (online) Chair: Ivan Sidorov Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia yvan.sidorov@gmail.com</p> <p>Technical secretary: <i>Evgeniy Fereferov</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, fereferov@icc.ru</p> <p>09:00 <i>Igor Bychkov, Gennady Ruzhnikov, Roman Fedorov, Anastasia Popova and Yuri Avramenko</i>. Digital transformation of forest monitoring in the Baikal natural territory</p>
09:40 – 09:45	Break

09:45 – 11:05	<p style="text-align: center;">SECTION III (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><i>Igor Skopin</i>. Modelling purposeful processes based on the geometric representation of their trajectories</p>
	<p><i>Sagit Valeev, Natalya Kondratyeva, Rinat Karimov, Mikhail Verkhoturov, Timur Islamgulov and Lidia Shekhtman</i>. Production planning in a construction company as an element of enterprise architecture</p>
	<p><i>Mikhail Verkhoturov, Sagit Valeev, Galina Verkhoturova, Damir Zaripov and Natalya Kondratyeva</i>. Digital twin of the process of thermal cutting of flat material into figured parts</p>
	<p><i>Alexandra Klimova, Olga Smetanina, Nafisa Yusupova and Alexey Kovtunenka</i>. Decision support in the information maintenance of individual education trajectory based on ontological models and distributed RDF-storage.</p>
July 8, 2021	EVENT
09:00 – 10:20	<p style="text-align: center;">SECTION IV (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>Evgeniy Fereferov</i> Matrosov Institute for System Dynamics and Control Theory of SB RAS, Russia, fereferov@icc.ru</p>
	<p><i>Gennady Oparin, Vera Bogdanova and Anton Pashinin</i>. Investigation of observability property of controlled binary dynamical systems: a logical approach</p>
	<p><i>Gennady Oparin, Vera Bogdanova and Anton Pashinin</i>. A logical method for the synthesis of periodic trajectory in a binary dynamical system</p>
	<p><i>David Gercekovich, Olqa Basharina, Irina Shilnikova, Evgeniya Gorbachevskaya and Sergey Gorsky</i>. Information and Algorithmic Support of a Multi-Level Integrated System for the Investment Strategies Formation</p>
	<p><i>Artem Davydov, Aleksander Larionov and Nadezhda Nagul</i>. Modular discrete event systems control based on logic inference</p>
10:20 – 10:25	Break
10:25 – 10:35	<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>