PROGRAM

2nd International Workshop on Information, Computation, and Control Systems for Distributed Environments (ICCS-DE 2020, https://iccs-de.icc.ru/en/), July 6-7, 2020, Irkutsk, Russia

The schedule of events indicated Moscow time

July 6, 2020	**Event**
8:20 – 8:30	**Opening Ceremony (online)** **Chair: *Andrei Tchernykh*** **CICESE Research Center, Ensenada, México**
	Bychkov I.V., Tchernykh A., Sheremet I.A. Greetings to the Workshop
8:30 – 10:00	**Plenary Session (online)** **Chair: *Andrei Tchernykh*** **CICESE Research Center, Ensenada, México**
	Tchernykh A. Uncertainty and optimization in cloud computing
	Sheremet I. Resource-based games
	Tolstikhin A., Bychkov I. Swarm optimization approach to non-stationary physical field survey problem using a group of autonomous underwater vehicles
10:00 – 10:10	**Break**
10:10 – 11:50	**Section I. Distributed Computing Systems (online)** **Chair: *Oleg Zaikin*** **Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**
	Babenko M., Shiriaev E., Tchernykh A., Golimblevskaia E. Neural Network Method for Base Extension in Residue Number System
	Kucherov N., Babenko M., Tchernykh A., Kuchukov V., Vashchenko I. Increasing Reliability and Fault Tolerance of a Secure Distributed Cloud Storage
	Vatutin E.I., Nikitina N.N., Belyshev A.D., Manzyuk M.O. On polynomial reduction of problems based on diagonal Latin squares to the exact cover problem
	Legalov A.I., Romanova D.S. Asynchronous-streamed model for describing dynamically changing parallelism
	Feoktistov A.G., Basharina O.Yu. Predicting the Runtime of Computational Jobs in a Distributed Computing Environment
11:50 – 12:00	**Break**
12:00 – 13:20	**Section II. Control of Complex Technical Systems (online)** **Chair: *Sergey Ul'yanov*** **Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**

	Banshchikov A., Vetrov A. Application of software tools for symbolic description and modeling of mechanical systems
	Karimov R.R., Kondratyeva N.V., Kuzmina E.A., Kovtunenko A.S., Verkhoturov M.A., Valeev S.S. The conceptual design of a complex technical object based on intelligent technologies
	Davydov A., Larionov A., Nagul N. Logic inference based construction of a supervisor for discrete-event system
	Davydov A., Larionov A., Nagul N. The construction of controllable sublanguage of specification for DES via PCFs based inference
July 7, 2020	**Event**
8:20 – 9:00	**Plenary Session (online)** **Chair: *Evgeniy Cherkashin*** **Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**
	Babenko M., Tchernykh A., Golimblevskaia E., Nguyen Viet Hung, Chaurasiya V.K. Computationally secure threshold secret sharing scheme with minimal redundancy
	Kenzin M., Bychkov I., Maksimkin N. Situational Awareness for Distributed Mobile Robot Teams under Limited Communication
9:00 – 9:10	**Break**
9:10 – 10:30	**Section III. Modelling and Optimization (online)** **Chair: *Evgeniy Cherkashin*** **Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**
	Dobrilovic D., Stojanov Z., Stojanov J., Malic M. Tools for modelling distance estimation based on RSSI
	Stojanov Z., Stojanov J., Jotanovic G., Dobrilovic D. Weighted networks in socio-technical systems: Concepts and challenges
	Reznik A.L., Soloviev A.A., Torgov A.V. Analysis of one type of communication systems using software and probabilistic methods
	Verkhoturov M.A., Verkhoturova G.N., Yagudin R.R., Danilov K.V., Karimov R.R., Kondratyeva N.V., Valeev S.S. Optimization of placement in the tasks of rapid prototyping and manufacturing of volumetric parts based on additive technologies
10:30 – 10:40	**Break**
10:40 – 12:20	**Section I. Distributed Computing Systems (online)** **Chair: *Ivan Sidorov*** **Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**
	Oparin G.A., Bogdanova V.G., Pashinin A.A. Automated tools for the development of microservice compositions for hybrid scientific computations
	Oparin G.A., Bogdanova V.G., Pashinin A.A. Automation of distributed data management in applied microservices package for scientific computations
	Gorsky S. Continuous integration, delivery, and deployment for scientific workflows in Orlando Tools

	Kostromin R. Survey of software configuration management tools of nodes in heterogeneous distributed computing environment
	Feoktistov A.G. Tender of computational works in heterogeneous distributed environment
12:20 – 12:30	**Break**
12:30 – 14:10	**Section IV. Information and Computation Systems in Energy and Heat Supply (online)** **Chair: *Alexander Feoktistov*** **Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**
	Sidorov I.A., Kostromin R.O., Feoktistov A.G. System for monitoring parameters of functioning infrastructure objects and their external environment
	Marinchenko A.Y., Edelev A.V. A formation of the heat pump mathematical models
	Karamov D.N., Naumov I.V., Ivanov D.A., Podyachikh S.V. Modeling of diesel generator operating modes on the basis of the engine speed characteristic in autonomous photovoltaic systems
	Edelev A.V., Fereferov E.S. A software platform to support the energy system resilience study
	Edelev A.V., Sidorov I.A., Gorsky S.A., Feoktistov A.G. Large-scale analysis of the energy system vulnerability using an in-memory data grid
14:10	**Closing Ceremony (online)** **Chair: *Alexander Feoktistov*** **Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**

Secretary of all sessions:

***Roman Kostromin*, Matrosov Institute for System Dynamics and Control Theory SB RAS, Russia**

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