	MONDAY June 18th			
	Room 1201	Room 1202	Room 516	Room 520
11:30-12:30	**M1A Supply Chain Management 1** Chair: Boris Sokolov	**M1B Scheduling 1** Chair: Yuri Sotskov	**M1C International Logistics** Chair: Victor Ostroga	**M1D Vehicle Routing 1** Chair: Yury Nikulin
11:30-11:50	Zoé Krug, Olga Battaïa and Romain Guillaume *The use of two-stage approach with R* criterion to solve a multi-period closed loop supply chain design problem*	Florian Fontan, Pierre Lemaire and Nadia Brauner *On the complexity of scheduling problems with processing-time dependent profit maximization*	Anastasiya Shimanskaya *The processes of digital transformation of the customs sphere in terms of the formation of digital economies*	Vitaly M. Demidenko *Mathematical models of vehicle routing in logistics chains of finished products*
11:50-12:10	Helena Zhivitskaya and Yuliya Artsiomchyk *Improving analytical mechanism for supply chain performance management*	Ilia Fridman, Yakov M. Shafransky and Erwin Pesch *Constructing the single-machine schedule under uncertainty of two types of parameters*	Nikita Kudriashou *Methods for assessing the implementation of the country's transit potential as current line of research in the field of international logistics*	Maxim Panfilov, Alina Kovalenko and Yauheni Kisialiou *Distribution planning for the gas company case*
12:10-12:30	Boris Sokolov and Dmitry Ivanov *Structure dynamics control for integrated logistics planning in the supply chain*	Yuri Sotskov and Natalja Egorova *Single-machine scheduling with uncertain durations for optimizing service logistics with one truck*	Aleksandra Naydenko and Victor Ostroga *Modern view on the logistics system of the Republic of Belarus in the context of a globalizing world economy*	Alaleh Maskooki and Yury Nikulin *Modeling efficient routing for a service boat*
13:00-14:00	**M2A Supply Chain Management 2** Chair: Volodymyr Zaslavskyi	**M2B Scheduling 2** Chair: Elena Musatova	**M2C Energy Logistics 1** Chair: Markus Brachner	**M2D Vehicle Routing 2** Chair: Yakov Zinder
13:00-13:20	M. Emre Keskin and Yunus Demir *Workforce balancing for a retail store chain*	Yakov Shafransky and Viktor Shinkarevich *Applying an alternative approach for establishing the complexity of open problems*	Yauhen Maisiuk and Irina Gribkovskaia *Construction of robust supply vessel schedules under uncertain weather conditions*	Camilo Velandia and Wilson Adarme *Proposal of distribution of last mile of food products with the use of bicycles or tricycles of load*
13:20-13:40	Ibrahim Labaran Ali, Abigail Hird and Robert Ian Whitfield *Using LSP network position to share supply chain risk information*	Alexander Kononov and Irina Lushchakova *Parallel machine scheduling models with the total machine cost*	Yauheni Kisialiou, Irina Gribkovskaia and Ellen Karoline Norlund *Robust supply vessel planning with uncertain demand*	Sergey Markov and Ivan Kaipau *Nesting irregular shapes*
13:40-14:00	Volodymyr Zaslavskyi and Andrzej Aftowicz *Challenges for logistics in creation and use of reusable packaging for automotive industry: system approach*	Alexander Lazarev, Elena Musatova and Yakov Zinder *Algorithms for scheduling the two-way traffic on a single track*	Markus Brachner and Lars Magnus Hvattum *Stochastic factors and interference effects in offshore Search-and-Rescue preparedness optimization models*	Yakov Zinder, Anthony Mackay, Yefei Zhang, Lucy MacMillan, Joey Fung and Hanyu Gu *Multi-objective vehicle routing problem with time windows and simultaneous deliveries and pickups*
16:00-17:00	**M3A Supply Chain Management 3** Chair: Sergei Teryokhin	**M3B Production Logistics** Chair: Boris Rozin	**M3C Energy Logistics 2** Chair: Katerina Shaton	**M3D Inventory management** Chair: Nir Halman
16:00-16:20	Volodymyr Petrivskyi and Volodymyr Zaslavskyi *Models and algorithms of logistics while ensuring profitability of beekeeping*	Aleksandr Pirogov, André Rossi and Alexandre Dolgui *Maximization of production line robustness under task time uncertainties at the line design stage*	Victor Cunha, Silvio Hamacher and Luciana Pessoa *An ILS heuristic for the pipe laying support vessel rescheduling problem*	S. Armagan Tarim and Onur Alper Kilic *A new heuristic for the non-stationary (s,S) policy*
16:20-16:40	Evgeniy Yakushkin and Victor Dravitsa *Actual aspects of improving logistics of consumer cooperatives in Belarus*	Oussama Ben Ammar and Alexandre Dolgui *Replenishment planning for two-level assembly systems under stochastic lead times: exact methods and metaheuristics*	Maya Pasichna and Volodymyr Zaslavskyi *Aggregation of energy information for analyzing effectiveness of energy generation structure*	Sule Tarim and Mustafa Cimen *Inventory costs and replenishment decisions considering the time value of money*
16:40-17:00	Sergei Teryokhin *Strategic electronic coordination improvement in buyer-supplier relationships: buyer dependency and investment in information systems perspectives*	Alexandre Dolgui, Boris Rozin and Genrikh Levin *Optimization of output and manufacturing intensities for batch processing of multiple products on multi-position transfer line under uncertainty of demand*	Katerina Shaton *An equilibrium model of the European gas market: A security of supply perspective*	Nir Halman and Giacomo Nannicini *When the newsvendor starts to sell lemonade: Approximating the continuous newsvendor problem*

	Room 1201	Room 1202	Room 516	Room 520
	TUESDAY June 19th			
	Room 1201	Room 1202	Room 516	Room 520
10:00-11:00	**T1A Transportation and Distribution 1** Chair: Mario Guajardo	**T1B Arctic Logistics 1** Chair: Yury Redutskiy	**T1C Econometric Modeling and Data Analysis** Chair: Vladimir Malugin	**T1D Service Logistics** Chair: Alena Otto
10:00-10:20	Chefi Triki *Optimization models for the transportation procurement through combinatorial auctions*	Victoria Holodkova and Pavel Konyukhovskiy *Game-theoretic models for analyzing the processes of inter-country competition and cooperation in the development of Arctic resources*	Anatoly Makarevich *Automating the process of construction and application of time series models by means of machine learning*	Valentina Klimenok and Alexander Dudin *Stationary analysis of unreliable queueing system with redundancy protection*
10:20-10:40	Alexander Dudin, Sergey Dudin and Olga Dudina *The tool for optimization of customer access and routing in manufacturing and transportation networks*	Yulia Danik and Mikhail Dmitriev *Multi-criteria mathematical model for international negotiations support in the Arctic region*	Aleksander Novopoltsev and Vladimir Malugin *Statistical analysis and modelling of macro processes using micro data*	Andrei Bandalouski *Dynamic pricing approach for hotel revenue management*
10:40-11:00	Mario Guajardo, Mikael Rönnqvist, Patrik Flisberg and Mikael Frisk *Finding opportunities for collaborative transportation in a large data set*	Yury Redutskiy *Risk management perspective on workforce scheduling for safety systems maintenance for oil and gas facilities located in poorly accessible regions*	Vladimir Malugin *Regime switching models: Independent switching versus Markov switching*	Alena Otto *New optimization problems arising in civil applications of unmanned aerial vehicles (UAVs), or drones*
11:30-12:30	**T2A Transportation and Distribution 2** Chair: Arild Hoff	**T2B Arctic Logistics 2** Chair: Bjørnar Aas	**T2C Information Technologies in Logistics** Chair: Mikhail Fomimykh	**T2D Education Logistics** Chair: Victor Dravitsa
11:30-11:50	Anastasiya Drob, Anton Zakhtarenka and Ivan Kaipau *Distribution logistics case in shoe retail*	Sergey Demin, Fuad Aleskerov, Sergey Shvydun and Natalia Meshcheryakova *Analysis of international maritime trade network in the Arctic region*	Dmitrii Deviatkin, Ivan Smirnov and Margarita Ananyeva *Approach to the extraction of financial and economic information from texts*	Boris Zhalezka, Aliaksei Danilchanka, Kseniya Yakushenka and Volha Siniauskaya *Digitalization of the education in the spheres of logistic, entrepreneurship and management*
11:50-12:10	Maksim Barketau, Erwin Pesch and Yakov Shafransky *Optimization aspects of railway terminals*	Alina Kovalenko *A comparative analysis of the Northern Sea Route as a potential alternative to the conventional route via Suez Canal for commercial cargo shipping*	Volha Kazantsava *Development of applications using modern database management technology and real-time analytics*	Ryhor Prakapovich, Matsvei Rozanau and Ilya Tuzin *Computer modeling of logistic robots group on a remote server*
12:10-12:30	Arild Hoff, Juanjo Peiro, Angel Corberan and Rafa Marti *Heuristics for the Capacitated Modular Hub Location Proble*	Bjørnar Aas and Espen Fjellheim *New emerging technologies and their applicability in the domain of Offshore Asset Protection in the Arctic*	Mikhail Fominykh and Judith Molka-Danielsen *Augmented reality: integrating human work in automation and Industry 4.0*	Victor Dravitsa and Aliaksandr Reshetniak *Logistics of support for multi-functional student documents and the development of electronic services*
13:00-14:00	**T3A Transportation and Distribution 3** Chair: Boris Panshin	**T3B Industry and Business Applications** Chair: Nikolai Kasyanik	**M3C Path Planning** Chair: Igor Rubanov	**T3D Packing and Partitioning** Chair: Gunesh Erdogan
13:00-13:20	Zeina Al Masry, Nabil Omri, Christophe Varnier, Noureddine Zerhouni and Brigitte Morello *Predictive maintenance optimization approaches for a fleet of complex transport systems*	Alena Melnikava (Decisionbrain) Evgeniy Novitskiy (Geopolimer) Ivan Kaipov (Belvest) Nikolai Kasyanik (Corporate Group Santa)	Mikhail Y. Kovalyov, Nir Halman, Alain Quilliot, Dvir Shabtay and Moshe Zofi *Minimizing length and maximizing survival probability over paths of a directed multigraph*	Vladimir Shlyk *Number of vertices of the polytope of integer partitions: observations, results, and conjectures*
13:20-13:40	Natalya Skirko *Features of development of the transport and logistics services sector in the Republic of Belarus*		Victor Lepin, Mihai Talmaciu and Vladimir Benediktovich *The weighted k-path vertex cover problem*	Nicolai Pisaruk *A new integer programming formulation for the multidimensional packing problems*
13:40-14:00	Boris Panshin *New directions in the study of information and analytical support of urban logistics for economic specialties*		Igor Rubanov *Methods for searching several solutions of the DBM system*	Gunes Erdogan *A large neighbourhood search algorithm for the 3-dimensional bin packing problem*