

MoNeTec-2024 Program

Time (MSK)	28.10.2024			
10.00-18.00	Network Tutorials for Students			
Time (MSK)	29.10.2024			
08:15 - 09:00	Registration & Welcome Coffee			
09.15 — 10.00	Opening		Igor Sokolov	Moscow State University, CMC Dept, FRCCSC of RAS
			Eugene Tyrtshnikov	Russlan Academy of Sciences
			Vladimir Korenkov	Joint Institute for Nuclear Research
			Official Representative	RnD Center ELVEES, JSC
			Alexei Smirnov	BaseALT LLC
			Ivan Chizhov	RnD Company Kryptonite, JSC
		Ruslan Smelyanskiy	MoNeTec-2024	
10.05 - 11.30	Keynotes 1			Chairs: Ruslan Smelyanskiy, Hong Mei
		10.05	Alexander Gasnikov	Modern Decentralized Distributed Optimization on a Time-Varying Graphs
		10.40	Hai Jin	Understanding Computility Net: A Distributed System Perspective
		11.15	Alexey Frolov	Massive Random Access as a Compressed Sensing Problem
11.50 - 12.05	Coffee Break			
12.05 - 13.15	Keynotes 2			Chairs: Ruslan Smelyanskiy, Hong Mei
		12.05	Eugene Tyrtshnikov	Matrix Decompositions and Learning from Big Data
		12.40	Zhenjiang Hu	Domain Specific Language Engineering via Language Lifting
13.15 - 14.00	Lunch			
14.00 - 15.40	AI Application for Resource Management and Control			Session Chairs: Victor Toporkov, Hai Jin
		14.00	Dongkun Huo	Reinforcement Learning Based Edge Microservice Migration Strategy under Resource Constraints
		14.20	Vasily Balashov	Machine Learning-Based Task Allocation in Computational Networks
		14.40	Yihao Zhao	How Useful is Communication Scheduling for Distributed Training?
		15.00	Dmitry Yemelyanov	Efficient Allocation of Cloud Network Resources with Regional Dependencies
		15.20	Maksim Tyushev	On Distributed Simulation Modeling of Large Scale Networks
15.40 - 15.55	Coffee Break			
15.55 - 17.15	5G/6G Networks for Wireless Communication			Session Chairs: K. Samoulov, E. Khorov, A. Dvorkovich, Xiang-Yang Li
		15.55	Dmitry Artemasov	Distributed Sensor-Assisted DNN-Based Massive-MIMO Channel Reconstruction
		16.15	Roman Bychkov	Performance Analysis of Fronthaul Compression in Massive MIMO Receiver
		16.35	Mikhail Potipak	Practical Aspects of Finding Codebooks Meet a Maximum Welch Bound Equality or Closest to It
		16.55	Anastasia Daraseliya	A Model for 5G Cellular IoT Systems with Early Transmissions at the Random Access Phase
17.15 - 18.55	Information Security in SDN/Cloud			Session Chairs: Sergey Selivanov, Alexander Sinitsyn, Yun-Hao Liu
		17.15	Official Representative	BaseALT LLC, Corporate Sponsor
		17.35	Kebin Liu	An Anonymous Authentication Scheme Based on Blind Signatures for the FIDO Protocol
		17.55	Vladimir Bashun	Quality Assessment of Static Analyzers for Containerized Applications
		18.15	Kirill Yakushenoks	Stateful Many-times Signature Scheme Based on Hash Functions and Random Linear Codes
		18.35	Sergei Litviniuk	Formal methods for building network-level information security policies

MoNeTec-2024 Program

Time (MSK)	30.10.2024			
08.45 - 09.30	Registration & Coffee			
09.30 - 11.30	Keynotes 3			Chair: Elizaveta Barabanova, Zhenjiang Hu
		09.30	Yun-Hao Liu	AIoT: Industrial Internet of Things
		10.05	Elizaveta Barabanova	Next Generation Optical Networks Based on Photonic Switches and Prospects for their Development
		10.40	Andrei Raigorodskii	Models of Complex Networks
11.15 - 11.30	Coffee Break			
11.30 - 12.40	Keynotes 4			Chair: Elizaveta Barabanova, Zhenjiang Hu
		11.30	Xiang-Yang Li	Industrial Intelligence by "Data+Knowledge" & Edge-Cloud Collaboration
		12.05	Eugene Stepanov	Quality of Service Control Challenges in Data Communication Networks
12.40 - 13.25	Lunch			
13.25 - 15.30	QoS control in Data Communication			Session Chairs: Eugene Stepanov, Xiang-Yang Li
		13.25	Andrey Kostogryzov	Probabilistic predicting the risks of system integrity violation in the absence of complete data on subsystems reservation multiplicity
		13.45	Victor Netes	Failure Criteria and the Relationship between Quality of Service and Dependability in Telecommunications
		14.05	Yikai Zhao	HeavyCache: A Generic Sketch for Summarizing Data Streams
		14.25	Irina Kvitkova	A Model of the Fiber-Optic Cable Reliability with the Restoration of Communication by Connecting at the Breakage Point Caused by a Sudden Failure
		14.45	Kaicheng Yang	HoppingTimer: A Near-Optimal Framework for Basic Estimation of Data Streams in Hopping Windows
15.05 - 15.20	Coffee Break			
15.20 - 17.00	QoS control in Data Communication			Session Chairs: Victor Toporkov, Yun-Hao Liu
		15.20	Alexander A. Mikov	MANETs Connectivity Management for Age of Information Decreasing in Real-Time Applications
		15.40	Anton Sergeev	Transport Layer Coding for Latency Reduction in Communication Networks: a Theoretical Basis
		16.00	Anastasiia Saveleva	The Equivalence Principle for Adaptive Load Balancing in Networks and Systems
		16.20	Ariy Okonishnikov	Memory Mechanism Efficiency Analysis in Multi-Agent Reinforcement Learning Applied to Traffic Engineering
		16.40	Alexander Sinitsyn	Algorithm of Designing a Connectivity Fault Tolerant Network and Routing
17.00 - 17.30	Best Paper Award			
17.30 - 19.45	Poster Session and Buffet Reception			
Time (MSK)	31.10.2024			
10.00 - 18.00	Future Network Frontiers (in Lomonosov Hall)			