24th International Conference on Distributed Computer and Communication Networks (DCCN 2021) - AGENDA September 20 (Monday) - September 24 (Friday), 2021

Organizers

V.A. Trapeznikov Institute of Control Sciences of RAS (ICS RAS, Russia, Moscow)

Peoples' Friendship University of Russia (RUDN University), Moscow,

Tracks

Track A. Computer and Communication Networks: Architecture, Protocols and Technologies. Chair: Vladimir Vishnevsky. Co-chair: Dmitry Kozyrev Track B.Modeling of Distributed Systems and Networks. Chair: Konstantin Samouylov. Co-chair: Irina Kochetkova Track C. Distributed Systems Applications. Chair:Andrey Koucheryavy. Co-chair: Daria Ostrikova

	TIME (Moscow time)	DAY 1: Opening, Plenary session (part I)
	11:30–11:45	Conference Opening Chairman: Vladimir Vishnevsky, ICS RAS
	11:45–12:00	Welcome Speech: <i>Dmitry Novikov</i> , Director, ICS RAS Welcome Speech: <i>Konstantin Samouylov,</i> Director, AMCT Institute, RUDN
	12:00–13:00	Performance Analysis of DRX Mechanism in LTE-A Networks using Markov Modeling Dharmaraja Selvamuthu, Indian Institute of Technology, India
Monday, September 20, 2021	13:00–14:00	Recent Advances in Scheduling Theory and Applications in Robotics and Communications Eugene Levner, Holon Institute of Technology, Israel AND Vladimir Vishnevsky, ICS RAS, Russia
	14:00-14:30	Break
	14:30–15:30	Bridging 5G to 6G Networks: Problems and Challenges Luis M. Correia, University of Lisbon, Portugal
	15:30–16:30	Recent results in performance modelling of finite-source retrial queues with collisions and their applications *Prof. János Sztrik*, University of Debrecen, Hungary*
	16:30–17:30	Software Fault Tolerance via Environmental Diversity Kishor S. Trivedi, Duke University, USA

	TIME (Moscow time)		DAY 2: Plenary session (part II), Track sessions	
Tuesday, September 21, 2021	11:00–12:00	Towards 6G Non-Terrestrial Networks Giuseppe Araniti, Mediterranea University of Reggio Calabria, Italy		
		A.1.1. Computer and Communication Networks: Architecture, Protocols and Technologies Chairs: Prof. V.Vishnevsky, Prof. K.Samouylov	B.1.1. Modeling of Distributed Systems and Networks Chairs: Prof. A.Dudin, Prof. C.Kim	C.1.1. Distributed Systems Applications Chairs: Prof. A.Koucheryavy, Prof. R.Kirichek
	12:00–12:15	Malik Alsweity, Ammar Muthanna, Andrey Koucheryavy Traffic management algorithm for V2X based flying fog system (ID 751)	Chesoong Kim, Alexander Dudin, Sergei Dudin, Olga Dudina MULTI-SERVER LOSS QUEUEING SYSTEM WITH THE BMMAP ARRIVAL PROCESS (ID 650)	Dmitry Namiot On the applicability and limitations of formal verification of machine learning systems (ID 588)
	12:15–12:30	Behrooz Daneshmand Survey of Load balancing mechanisms based on SDN in 5G/IMT-2020 (ID 646)	Alexander Dudin, Sergei Dudin, Olga Dudina Система BMAP/PH/1 с нагревом и охлаждением прибора (ID 578)	Vladimir Vishnevsky, Olga Semenova, Bui Duy Tan Использование машинного обучения для исследования систем поллинга с коррелированными входными потоками (ID 732)
	12:30–12:45	Abbas Alzaghir, Andrey Koucheryavy Multi Task Multi-UAV Computation Offloading Enabled Mobile Edge Computing Systems (ID 719)	Alexander Dudin, Sergei Dudin, Olga Dudina Система MAP/PH/1 с автономным ограниченным обслуживанием без прерывания (ID 579)	Anton Bondarchuk, Dmitriy Shashev, Stanislav Shidlovskiy Binary gradient computation and implementation in reconfigurable computing environments (ID 637)
	12:45–13:00		Alexander Dudin, Mei Liu Многолинейная система с разнотипными ненадежными приборами и повторными вызовами (ID 647)	Sergey Astafiev, Alexander Rumyantsev Distributed Computing of Embarrassingly Parallel R Applications using RBOINC Package (ID 634)
	13:00-13:30		Break	
Tuesday, September 21, 2021		A.1.2. Computer and Communication Networks: Architecture, Protocols and Technologies Chairs: Prof. K.Samouylov, Prof. Yu. Gaidamaka	B.1.2. Modeling of Distributed Systems and Networks Chairs: Prof. A.Krishnamoorthy, Prof. Varghese C. Joshua	C.1.2. Distributed Systems Applications Chairs: Dr. I.Kochetkova, Dr. D.Ostrikova
	13:30–13:45	Amani Sabbagh, Maxim Shcherbakov An efficient cluster routing protocol for vehicular adhoc network using bio-metaheuristic algorithm (ID 744)	Nisha Mathew, Varghese C. Joshua, Achyutha Krishnamoorthy A Two Server Queueing Inventory Model With Two Types of Customers and a Dedicated Server (ID 624)	Vadim Efimov Targeted massive incident notification system for a globally distributed computation network (ID 615)
	13:45–14:00	Amani Sabbagh Evaluation of reactive routing protocols performance under malicious attacks in VANET (ID 706)	Khamis Abdullah Khamis AL Maqbali, Varghese C. Joshua, Achyutha Krishnamoorthy On A Queue With Marked Compound Poisson Input And Exponentially Distributed Batch Service (ID 609)	Sergey Poslavskiy, Dmitriy Shashev, Stanislav Shidlovskiy Object classification using neural networks with binary input and binary feature extraction (ID 728)
	14:00–14:15	Andrey Tyulin, Alexander Chursin, Igor Dubina Development and application of intelligent systems for optimal production management of unique products (ID 673)		Konstantin Mikhailov, Alexey Abramov An innovative solution for analyzing the dynamics of slowly developing processes of changing the geometry of engineering structures using the example of a system for strengthening a rocky slope (ID 717)

15:15-15:30 Ontology-based model for sensor network fault Asymptotic Analysis of a Closed Exponential Queueing Network with Unreliable Nodes (ID 603) Network with Unreliable Nodes (ID 603) Network with Unreliable Nodes (ID 603) Network Networks Network Networks Network	Tuesday, September 21, 2021	14:15–14:30 14:30–14:45 14:45–15:00 15:00–15:15	Andrey Tyulin, Alexander Chursin, Alexander Yudin, Polina Grosheva Basis for the formation of a digital ecosystem of an industrial holding (ID 672) Ivan Tsitovich On Group Polling Method in Structured Wireless Sensor Networks for Very Rare Events Detecting (ID 597) Vladimir Vishnevsky, Konstantin Vytovtov, Elizaveta Barabanova, Vladislav Buzdin Local Hybrid Navigation System of Tethered High-Altitude Platform (ID 734) Konstantin Vytovtov, Elizaveta Barabanova, Vladimir Vishnevsky Investigation of wireless hybrid communication system reliability under external influences (ID 641) Alexander Grebeshkov	Achyutha Krishnamoorthy, Anu Joshua Batch Service Queueing System Associated with Inventory Transport (ID 627) Rostislav Razumchik Joint stationary distribution in the two-channel queueing system with ordered entry, governed by one queue skipping policy (ID 685) Katsiaryna Kosarava, Dzmitry Kopats Application of a queuing network with positive and negative arrivals for modeling a computer network with antivirus software (ID 613) Valentina Klimenok, Alexander Dudin, Olga Semenova Unreliable retrial queueing system with a backup server (ID 844) Tatiana Rusilko	Ekaterina Panteley, Viacheslav Abrosimov Machine learning for recognition of events in hostile environments (ID 708) Evgenia Anikina, Andrey Kalashnikov Management of risks for complex computer network based on a general arbitration scheme (ID 691) Sergey Shorokhov On Deep Option Pricing in Local Volatility Models (ID 629)
Signate Sign		15:15–15:30	Ontology-based model for sensor network fault	Asymptotic Analysis of a Closed Exponential Queueing	
A.1.3. Computer and Communication Networks: Architecture, Protocols and Technologies Chairs: Prof. S. Steanov, D. E. Sopin Sergey Stepanov, Mikhail Stepanov, Umer Andrabl, Dmitriy Petrov, Juvent Mdaylkunds 16:00–16:15 Evrof. W. Markovich, Udo Krieger 17, 2021 16:15–16:30 Analysis of non-Preemptive Scheduling for 5G Network Model within Slicing Framework (ID 695) Faina Moskaleva; Asterina Isbosvaka; Jubbov Lapshenkova, Sergey Shorgin, Vullya Galdamaka Delegoment of Raid Admission Scheme Wooled for Sol. Network Silicing Framework (ID 695) Faina Moskaleva; Asterina Isbosvaka; Jubbov Lapshenkova, Sergey Shorgin, Vullya Galdamaka Delegoment of Raid Admission Scheme Wooled for Sol. Network Silicing Framework as a Retrial Queue (ID 750) Kirill Ageev, Eduard Sopin On the convergence of an iterative method for Network silicing Framework as a Retrial Queue (ID 750) Stepan Rogozin 17:00–17:15 Ageneralized loss priority system with application to bandwidth sharing (ID 714) Tuesday, September 21, 2021 Tuesday, September 21, 2021 Anastasia Marcokkina, Alexander Paramonov, Tatiana Tatarnikova Ultra-dense Internet of Things model network (ID 752) Taring Moskaleva; Asterina Isbosvaka (ID 752) Tring Moskaleva; Asterina Isbosvaka (ID 752) Tuesday, September 21, 2021 Anastasia Marcokkina, Alexander Paramonov, Tatiana Tatarnikova Ultra-dense Internet of Things model network (ID 752) Tring Moskaleva; Asterina Isbosvaka (ID 752) Tuesday, September Stability Conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID Trial September Stability Conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID		45 20, 46 00	management (ID 620)		
Architecture, Protocols and Technologies Chairs: Prof. S. Stepanov, Dr. E. Sopin Sergey Stepanov, Mikhail Stepanov, Uner Andrab, Dmitry Petrov, Juvent Ndaykunda 16:00-16:15 16:00-16:15 16:00-16:15 16:00-16:15 16:15-16:30 16:15-16:30 16:15-16:30 16:15-16:30 16:15-16:30 16:15-16:30 16:15-16:30 16:15-16:30 16:30-16:45 1		15:30-16:00	A 1.3 Computer and Communication Networks:		
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Topsis, Moora and WPM (methodology improvements) (ID 731) Anastasia Marochkina, Alexander Paramonov, Tatiana 17:30–17:45 Tatarnikova Ultra-dense Internet of Things model network (ID 752) Topsis, Moora and WPM (methodology improvements) (ID 731) Yuriy Obzherin, Mikhail Nikitin, Stanislav Sidorov Hidden Markov Model of the Control System Latent Failures of Technological Cell (ID 612) Ruslana Nekrasova Stability conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID		17:15–17:30	Hoang Kinh	Combined "AHP-Block & Entropy" weighting of	
September 21, 2021 Anastasia Marochkina, Alexander Paramonov, Tatiana 17:30–17:45 Anastasia Marochkina, Alexander Paramonov, Tatiana 17:30–17:45 Tatarnikova Hidden Markov Model of the Control System Latent Failures of Technological Cell (ID 612) Ruslana Nekrasova Stability conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID	Tuesday, September 21, 2021				
Anastasia Marochkina, Alexander Paramonov, Tatiana Yuriy Obzherin, Mikhail Nikitin, Stanislav Sidorov Tatarnikova Hidden Markov Model of the Control System Latent Ultra-dense Internet of Things model network (ID 752) Failures of Technological Cell (ID 612) Ruslana Nekrasova Stability conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID			integrated management systems (ID 572)	, , , , , , , , , , , , , , , , , , , ,	
17:30–17:45 Tatarnikova Ultra-dense Internet of Things model network (ID 752) Ruslana Nekrasova Stability conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID			Anastasia Marochkina. Alexander Paramonov. Tatiana		
Ruslana Nekrasova Stability conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID			i '		
Ruslana Nekrasova Stability conditions for a multi-orbit retrial system with general retrials under classical retrial policy (ID				•	
with general retrials under classical retrial policy (ID					
with general retrials under classical retrial policy (ID		17.45 10.00		Stability conditions for a multi-orbit retrial system	
606)		17:45-18:00		with general retrials under classical retrial policy (ID	
				606)	

	TIME (Moscow time)		DAY 3: Track sessions	
Wednesday, September 22, 2021		A.2.1. Computer and Communication Networks: Architecture, Protocols and Technologies Chairs: Prof. D.Namiot, Prof. L.Abrosimov	B.2.1. Modeling of Distributed Systems and Networks Chairs: Prof. A.Melikov, Prof. A.Nazarov	C.2.1. Distributed Systems Applications Chairs: Dr. E.Markova, Prof. T.Atanasova
	11:00–11:15	Aleksandr Soldatenko, Daria Semenova Algorithm of finding all maximal induced bicliques of hypergraph (ID 693)	Anatoly Nazarov, Alexander Moiseev, Ivan Lapatin, Svetlana Paul, Olga Lizyura, Pavel Pristupa, Xi PENG, Li Chen, Bo BAI Analysis of the Amount of Information in Semi-Markov Flow (ID 625)	Mainak Mondal, Stanislav Shidlovskiy, Dmitriy Shashev, Michael Okunsky Autonomous Infrared Guided UAV Landing System (ID 607)
	11:15–11:30	Alyona Borisovskaya Linux network device drivers: NAPI polling in kernel threads (ID 688)	Agassi Melikov, Mamed Shahmaliyev, János Sztrik Algorithmic Approach to Study the Model of Perishable Inventory System with Repeated Customers (ID 589)	Alexander Grusho, Nick Grusho, Michael Zabezhailo, Elena Timonina Statistical Method for Support of Responsible Decision (ID 704)
	11:30–11:45	Van Dai Pham, Hao Do Phuc, Tran Duc Le, Ruslan Kirichek A Method for Link Quality Estimation in LoRa Network based on Support Vector Machine (ID 748)	Elena Danilyuk, Svetlana Moiseeva, Anatoly Nazarov Asymptotic Diffusion Analysis of an Retrial Queueing System M/M/1 with Impatient Calls (ID 707)	Dmitry Kochetkov, Aliaksandr Birukou, Anna Ermolayeva The Importance of Conference Proceedings in Research Evaluation: a Methodology for Assessing Conference Impact (ID 721)
	11:45–12:00	Tran Duc Le, Nguyen Duc Tai, Le Ba Luong, Van Dai Pham, Ruslan Kirichek Analysis of Network Security Issues in the Join Procedure of LoRaWAN (ID 846)	Konstantin Vytovtov, Elizaveta Barabanova, Vladimir Vishnevsky Transient behavior of the M M 1 n queuing system with piecewise-constant information flows (ID 640)	Evgeny Mikhailov, Ivan Fedotov, Andrey Larionov Эффективность радиочастотной идентификации транспортных средств с использованием аналитической аппроксимации и имитационного моделирования (ID 720)
	12:00–12:15	Oleg Boychenko Evaluation of the quality and optimization functioning information systems (ID 605)	Anatoly Nazarov, Svetlana Paul, Tuan Phung-Duc, Maria Morozova Scaling limits of a tandem retrial queue with common orbit and Poisson arrival process (ID 711)	
	12:15–12:30	Sergey Kislyakov, Aleksandr Sotnikov, Vladimir Akishin Customer Experience Model for Customer Digital Twin (ID 632)	Anatoly Nazarov, Maria Samorodova Waiting Time Asymptotic Analysis of a M/GI/1 Retrial Queue System (ID 576)	
	12:30–12:45	Igor Buzhin, Maxim Bessonov, Yuriy Mironov, Mais Farkhadov Integrity, resilience and security of 5G transport networks based on SDN/NFV technologies (ID 726)	Nikita Krishtalev, Ekaterina Lisovskaya, Alexander Moiseev Resource Queueing System M/M/∞ in Random Environment (ID 694)	
	12:45–13:00	Albina Pomogalova, Dmitriy Sazonov, Evgeny Donskov, Alexey Borodin, Ruslan Kirichek Identification of narrowband wireless communication networks systems and Internet of Things devices using Blockchain technology (ID 845)	Ivan Lapatin, Alexey Blaginin The two-dimensional Output Process of Retrial Queue with Two-Way Communication and MMPP input (ID 743)	
	13:00-13:30		Break	

Wednesday,		B.2.2. Modeling of Distributed Systems and		
September		Networks		
22, 2021		Chairs: Prof. J.Sztrik, Prof. E.Morozov		
		Andras Meszaros, Evsey Morozov, Taisia Morozova,		
		Miklos Telek		
	13:30-13:45	Numerical analysis of a retrial system with unreliable	3:45	
		servers based on Laplace transform description (ID 703		
		Irina Peshkova, Evsey Morozov, Mariia Maltseva		
	13:45-14:00	On regenerative estimation of extremal index in		
	13.13 11.00	queueing systems (ID 715)		
		Ksenia Zhukova, Evsey Morozov		
	14:00-14:15	A large deviation analysis of a queueing system with		
		general retrieval time (ID 698)		
		Alexander Rumyantsev, Davide Pastorello, Enrico		
		Blanzieri, Valter Cavecchia		
	14:15-14:30	On Convergence of Tabu-Enhanced Quantum Annealing	4·30 I	
		Algorithm (ID 623)		
		Ádám Tóth, János Sztrik	\dashv	
	44.00	The Simulation of Finite-Source Retrial Queueing		
	14:30–14:45	Systems With Two-Way Communications to the Orbit	4:45	
		and Impatient Customers (ID 601)		
		Ádám Tóth, János Sztrik		
	44 45 45 00	Simulation of Two-Way Communication Retrial	5.00	
	14:45–15:00	Queuing Systems With Non-reliable Server, Impatient	5:00	
		Customers to the Orbit and Blocking (ID 602)		
		Mohamed Hedi Zaghouani, Hamza Nemouchi, János		
	15:00–15:15	Sztrik	5:15	
	15.00 15.15	Analysis of cognitive radio networks with balking and	,,,,	
		reneging (ID 622)	 	
	15.15 15.20	Attila Kuki, Tamás Bérczes, Ádám Tóth, János Sztrik		
	15:15–15:30	Modeling of non-reliable retrial queueing systems with collisions and catastrophic breakdowns (ID 633)	5.30	
	15:30–16:00	Break	6.00	
	15.50-16.00		3.00	
		B.2.3. Modeling of Distributed Systems and		
		Networks		
		Chairs: Prof. A.Andronov, Prof. V.Rykov		
Madaada		Alexander Andronov, lakov Dalinger, Nadezda		
Wednesday,	16.00 16.15	Spiridovska Computational algorithm for an analysis of a single-line	6.15	
•	16:00–16:15	queueing system with arrived alternating Poisson flow		
22, 2021		(ID 626)		
		Ekaterina Bulinskaya	 	
	16:15–16:30	Risks Ordering and Reliability of Some Applied		
		Probability Systems (ID 643)		
		Galina Zverkina	\neg	
	16:30-16:45	On polynomial convergence rate for reliability	6:45	
		system with warm standby (ID 610)		
		Boyan Dimitrov, Vladimir Rykov		
	16:45-17:00	On k-out-of-n System under Full Repair and Arbitrary		
		Distributed Repair Time (ID 884)		
		<u> </u>		

	Vladimir Rykov, Dmitry Kozyrev, Nika Ivanova	
17:00–17:15	Применение теории разложимых	
17.00-17.13	полурегенерирующих процессов к исследованию	
	системы k-из-n:F с частичным ремонтом (ID 765)	
	Hilquias Cravid, Ivan Zaryadov, Tatiana Milovanova	
17:15–17:30	Single-server queueing systems with exponential	
	service times and threshold-based renovation (ID 684)	
	Hector Gibson Kinmanhon Houankpo, Dmitry Kozyrev	,]
	Emmanuel NIBASUMBA, Bienvenue N'dah MOUALE	
17:30–17:45	MOUTOUAMA	
	Reliability Model of a Homogeneous Hot-Standby k-out	
	of-n System (ID 758)	
	Alexander Dagaev, Van Dai Pham, Ruslan Kirichek,	
17:45–18:00	O.V. Afanaseva, E.A. Yakovleva	
17:45-18:00	Availability factor analysis of a network in mesh	
	structure (ID 747)	

	TIME			
	(Moscow	DAY 4: Track sessions		
	time)			
Thursday,			B.3.1. Modeling of Distributed Systems and	C.3.1. Distributed Systems Applications
September			Networks	Chairs: Prof. E.Shchetinin, Prof. D.Kulyabov
23, 2021			Chairs: Prof. D.Efrosinin, Dr. S.Vasilyev	
	11:00–11:15		Maksim Zharkov, Alexander Kazakov, Anna Lempert К вопросу о применении теории массового обслуживания при моделировании работы	Eugene Yu. Shchetinin, Anastasia Glushkova, Leonid Sevastianov, Anastasia Demidova Detection of cardiac arrhythmia based on the analysis of electrocardiogram using deep learning models (ID
			железнодорожных станций (ID 689)	593)
			Anastasia Gorbunova, Alexey Lebedev	593)
	11:15–11:30		Response Time Estimate for a Fork-join System with Pareto Distributed Service Time as a Model of a Cloud	Dmitry Kulyabov, Anna Korolkova, Anastasia Demidova
			Computing System Using Neural Networks (ID 733)	Surrogate modeling assistant software (ID 705)
			Anastasia Gorbunova, Vladimir Vishnevsky	Vladislav Shatravin, Dmitriy Shashev, Stanislav
			Evaluation of the Performance Parameters of a Closed	Shidlovskiy
	11:30–11:45		Queuing Network Using Artificial Neural Networks (ID	Developing of models of dynamically reconfigurable
			727)	neural network accelerators based on homogeneous
				computing environments (ID 611' Andrey Borisov, Robert Mukharlyamov, Kaspirovich
			Dmitry Efrosinin, Natalia Stepanova, János Sztrik	Ivan
	11:45–12:00		Algorithmic analysis of finite-source multi-server	Construction of differential equations of a
	115 12.00		heterogeneous queueing systems (ID 759)	nonholonomic mechanical system and perspectives of
			3.,	motion control using artificial intelligence methods (ID
			Sergey Vasilyev, Galina Tsareva, Shakhmurad	710)
			Kanzitdinov, Mohamed Adel Bouatta	Alexander Yudin, Polina Grosheva
	12:00–12:15		Queueing analysis of a large-scale system with a small	Intelligent system for forecasting the effectiveness of
			parameter (ID 953)	space services in solving economic problems (ID 668)
			Evgeny Polin, Svetlana Moiseeva, Alexander Moiseev	
			Асимптотический анализ неоднородной СМО	Yury Zatuliveter, Elena Fishchenko
	12:15-12:30		M GI ∞, функционирующей в марковской	The Automata-based Approach to Large Systems
			случайной среде, в условии эквивалентного роста	Control in the Global Computer Environment (ID 702)
			времени обслуживания на приборах (ID 598) Maria Shklennik, Alexander Moiseev, Lyubov	
			Zadiranova	Marina Buranova, Vyacheslav Kartashevskiy
	12:30–12:45		Метод марковского суммирования для исследования	I
	12.30 12.13		потока повторных обращений в двухфазной системе	
			MAP GI ∞ с мгновенной обратной связью (ID 687	·
			Evgeny Golovinov, Dmitrii Aminev, Dmitry Kozyrev,	
			Vladimir Kulygin	
	12:45-13:00		Определение показателей долговечности	
			распределённой коммуникационной сети	
			метеостанций минимальной конфигурации (ID 682)	
	13:00–13:30		Break	
			János Sztrik	
	13:30-13:45		Software Packages for Teaching Queueing Theory (ID	
			586)	

	TIME (Moscow time)	DAY 5: Round Table and Conference Closing
Friday, September 24, 2021	11:00–12:00	Round Table: On applications of the distributed systems (Круглый стол по вопросам приложений распределённых систем) Chairs: Prof. Vladimir Vishnevsky, Prof. Konstantin Samouylov
	12:00–12:15	Conference Closing