



27-TH
INTERNATIONAL
CONFERENCE ON
**DISTRIBUTED COMPUTER AND
COMMUNICATION NETWORKS**

CONFERENCE PROGRAM

23-27 SEP. 2024
MOSCOW • RUSSIA

DCCN 2024



RUDN
university



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Control Sciences of the
Russian Academy of Sciences
Russia



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VENUE



RUDN University,
Building of Faculty
of Sciences

3 Ordzhonikidze str.
Moscow

CONFERENCE PROGRAM

Track A Computer and Communication Networks:
Architecture, Protocols and Technologies

Track B Modeling of Distributed Systems
and Networks

Track C Distributed Systems Applications

September 23rd, Monday

10:00-13:00 Registration & Coffee Break
Room 220

11:00-11:10 DCCN Opening
Room 708

11:10-12:10 Quantum Blockchain for Next
Generation Networks Scenarios:
Use Cases, Challenges and Future
Directions.
Neeraj Kumar, Thapar Institute of
Engineering and Technology, India

12:10-13:10 The Escalating Cybersecurity
Threats in the Era of Quantum
Computers: Challenges and
Solutions.
Abdelkader Laouid, University of
Echahid Hamma Lakhdar, Algeria

- 13:10-13:50** Lunch
University Canteen
- 13:50-14:50** Repeated Line Tracking and Multiline Neighbouring Relation (RLMN) Framework for Finger Vein Template Security.
Sachin Sharma, State Bank of India, India
- 14:50-15:50** Emerging Security Solutions for the Internet of Things Networks. [online]
Abdelhamied A. Ateya, Zagazig University, Egypt & Prince Sultan University, Saudi Arabia
- 15:50-16:50** Holographic City - CitiVerse
Ammar Muthanna, Bonch-Bruevich Saint Petersburg State University of Telecommunications, Russia
- 17:00-19:00** Welcome Reception
University Canteen

September 24th, Tuesday

Room 208

Track A

Session A-1
Room 208

Chair: Vitalii Beschastnyi

- 11:00-11:15** Deep learning for autonomous vehicle traffic predictions in a multi-cloud vehicular network environment
Ali R. Abdellah, Ahmed Abdelmoaty, Malik Alsweity, Ammar Muthanna, Andrey Koucheryavy

- 11:15-11:30** Clustering Algorithm for ultra Reliable and Low Latency Communications Based on Population Density
Maria Sharlaeva, Maria Makolkina, Abbas Alzaghir, Artem Volkov
- 11:30-11:45** Autoregressive and Arima Pro-Integrated Moving Average Models for Network Traffic Forecasting
Ibrahim Elgendi
- 11:45-12:00** Applying Machine Learning for User Preferences Prediction based on Personality Traits
Rumen Ketipov, Todor Balabanov, Vera Angelova, Lyubka Doukovska
- 12:00-12:15** On Supervised Deep Gaussian Mixture Models
Andrey Gorshenin
- 12:15-12:30** The Use of Machine Learning for Remote Discrimination of Applications's Classes in 6G Terahertz Systems with Directional Antennas
Svetlana Dugaeva, Vyacheslav Begishev, Alexander Shurakov, Yevgeni Koucheryavy, Gregory Goltsman
- 12:30-13:15** Lunch Break
University Canteen

Chair: Vyacheslav Begishev

13:15-13:30 Optimizing Energy Efficiency via Small Cell-Controlled Power Management for Seamless Data Connectivity

Amna Shabbir, Sadique Ahmad, Madeeha Azhar, Saifdar Ali Rizvi, Anna Kushchazli, Abdelhamied Ashraf Ateya

13:30-13:45 Deep Learning Chest X-Rays of Pneumonia Binary Classification Based on Convolutional Neural Network for IoT networking

Mohammed Muthanna, Omar Mahmood, Yousif Hammadi, Alexey Tselykh

13:45-14:00 Development of a Multifactor Forecasting Method for Dependability Measures of IIoT-Systems

Viacheslav Tsvetkov, Sergey Polesskiy, Leonid Lander, Pavel Korolev

14:0-14:15 5G/6G Communication Networks Works Force Management

Alexander Goldstein, Lev Goldstein, Mikhail Fenomenov

14:15-14:30 Measurement-Based Received Signal Time-Series Generation for 6G Terahertz Cellular Systems
Daria Ostrikova, Vitalii Beschastnyi, Elizaveta Golos, Yuliya Gaidamaka, Alexander Shurakov, Yevgeni Koucheryavy, Gregory Goltsman

14:45-15:15 Coffee Break
University Canteen

Room 219

Track B

Session B-1.1

Room 219

Chair: Eduard Sopin

11:00-11:15 Modeling Distributions of Node Characteristics in Directed Graphs Evolving by Preferential Attachment
Natalia Markovich, Maksim Ryzhov

11:15-11:30 Approximation of Queueing Systems with Superposed Weibull Inputs
Irina Peshkova, Evsey Morozov, Michele Pagano

11:30-11:45 Controlled Markov Queueing Systems with Deep RL algorithm
Viktor Laptin

11:45-12:00 A k-out-of-n Reliability Model with Phase-Type Internal and External Service, N-Policy, and Multiple Server Vacations
Binumon Joseph, Jose K. P.

- 12:00-12:15** N-Policy in a Multi-server Stochastic Production Inventory System
Jose K. P. , Thresiamma N. J.
- 12:15-12:30** On convolution algorithm for normalization constant evaluation in the analysis of resource loss systems with signals
Alexander Maslov
- 12:30-13:15** Lunch Break
University Canteen

Track B

Session B-1.2

Room 219

Chair: Ivan Zaryadov

- 13:15-13:30** Polling Queueing System with Varying Service Rate
Alexander Dudin, Olga Dudina
- 13:30-13:45** Tandem Retrial Queueing System with Markovian Arrival Process and Common Orbit
Valentina Klimenok, Vladimir Vishnevsky
- 13:35-14:00** State-Dependent Admission Control
Agassi Melikov, Alexander Rumyantsev
- 14:00-14:15** Stability analysis of two-class preemptive priority retrial queuing model with constant retrial rate
Ruslana Nekrasova

- 14:15-14:30** Transient behavior of multi-line QS with a limited number of sources and a smooth change of input information flow
Konstantin Vytovtov, Elizaveta Barabanova
- 14:30-14:45** Two different threshold-based stochastic drop mechanisms for queuing systems
Tatiana Milovanova, Konstantin Samouylov
- 14:45-15:15** Coffee Break
University Canteen

Track B

Session B-1.3

Room 219

Chair: Nika Ivanova

- 15:15-15:30** Investigation of M/G/1//N system with collisions, unreliable primary and a backup server
Ádám Tóth, János Sztrik
- 15:30-15:45** Simulation-Based Optimization for Resource Allocation Problem in Finite-Source Queue with Heterogeneous Repair Facility
Dmitry Efrosinin, Natalia Stepanova, Vladimir Vishnevsky
- 15:45-16:00** Reliability Analysis of Communication Systems
Dharmaraja Selvamuthu
- 16:00-16:15** On the reliability estimation of the Gaussian degradation system with a changing mean degradation rate
Oleg Lukashenko

16:15-16:30 Reliability Analysis of Active Double Redundant System with Arbitrary Initial Distributions
Vladimir Rykov

September 25th, Wednesday

Room 208

Track B

Session B-2.1 Room 208

Chair: Mikhail Khachumov

11:00-11:15 A Novel Dual Watermarking Scheme Based On K-level For Medical Images

Mohammed ElHabib Kahla, Mounir Beggas, Abdelkader Laouid, Brahim Ferik, Mostefa Kara

11:15-11:30 An Intelligent Approach for Early Detection of Potato Diseases in Desert Agriculture

Adel Berhoum, Abdelkader Laouid, Mostefa Kara

11:30-11:45 Coronary arteries stenosis detection by deep learning methods

Eugene Yu. Shchetinin, Leonid Sevastianov, Anastasiia Tiutiunnik

11:45-12:00 On Proximity Presentation System
Artem Makarov, Dmitry Namiot

- 12:00-12:15** Generalized Nets Model of neonatal Critical Congenital Heart Defects screening process
Alexander Alexandrov
- 12:15-12:30** A practical solution to the problem of detecting peoples and vehicles from video frames
Vitaly Fralenko
- 12:30-13:15** Lunch Break
University Canteen

Track B

Session B-2.2

Room 208

Chair: Dmitry Kozyrev

- 13:15-13:30** Сжатие данных для информационной системы морского и речного флота
Georgy Belikov
- 13:30-13:45** Сегментация нейронов на изображениях фазово-контрастной микроскопии
Enoel Arrokho
- 13:45-14:00** Самоуправление корпоративной сотовой сетью на базе машинного обучения с подкреплением
Владимир Широков, Leonid Abrosimov
- 14:00-14:15** О производительности специализированной распределенной вычислительной системы, построенной на основе интеллектуальных агентов
Pavel Golosov, Sergey Bolovtsov, Ivan Gostev

- 14:15-14:30** Дерево отказов для системы гибридного распознавания номеров транспортных средств
Dmitrii Aminev
- 14:30-14:45** Операции анализа данных в многомерных информационных системах на основе колоночных СУБД
Dmitry Kunitsky, Maxim Fomin
- 14:45-15:15** Coffee Break
University Canteen

Track A

Session A-3

Room 208

Chair: Dmitry Kozyrev

- 15:15-15:30** An Internet of Thing based Obstacle Avoidance Robotic Vehicle Using Ultrasonic Sensor and Arduino
Mohammed Muthanna, Alexey Tselykh
- 15:30-15:45** Advancing Satellite Communications: Multi-Objective Optimization with Genetic Algorithms
До Фук Хао, Tran Duc Le, Aleksandr Berezkin, Ruslan Kirichek
- 15:45-16:00** Optimizing Resource Allocation for Multi-Beam Satellites Using Genetic Algorithm Variations
До Фук Хао, Tran Duc Le, Aleksandr Berezkin, Ruslan Kirichek

- 16:00-16:15** Guaranteed data delivery based on the recurrent sequences
Dmitry Kukunin, Zachery Babanov, Sergey Maksimenko, Aleksandr Berezkin, Ruslan Kirichek
- 16:15-16:30** Optimization of HAPS-UAV Network Performance: A Novel Stochastic Geometry model
Vidyottama Jain
- 16:30-16:45** Peak Age of Information in a Multicasting Network
Elisaveta Gaydamaka, Alexander Milekhin, Yuliya Gaidamaka, Konstantin Samouylov
- 17:00-19:30** Gala Dinner
University Canteen

Room 219

Track B

Session B-1.4 Room 219

Chair: Irina Kochetkova

- 11:00-11:15** Mathematical Model of a Heterogeneous System Multimodal Data Transmission
Ekaterina Pankratova, Svetlana Moiseeva, Ekaterina Pakulova
- 11:15-11:30** Performance Analyzes of All-Optical Network With Non-Stationary Input Flow
Konstantin Vytovtov, Elizaveta Barabanova

11:30-11:45	Analysis of functioning all-optical networks in transient mode using queueing theory and simulation modeling Elizaveta Barabanova, Konstantin Vytovtov, Iskander Khafizov
11:45-12:00	Polling model for analysis of round-trip time in the IAB network Dmitry Nikolaev, Andrey Gorshenin, Yuliya Gaidamaka
12:00-12:15	Analysis of radio admission control scheme model for 5G network with NS and priority service Tatyana Konovalova, Maxim Voshchansky, Ekaterina Markova
12:15-12:30	Analyzing Resource Reallocation Policies for 5G NR Network Slicing Using a Controllable Queuing Model with Signals Kseniia Leonteva, Ibram Ghebrial
12:30-13:15	Lunch Break University Canteen

Track B

Session B-1.5 Room 219

Chair: Yuliya Gaidamaka

13:15-13:30	Математическая модель гетерогенной системы передачи многомодальных данных Svetlana Moiseeva, Ekaterina Pankratova, Ekaterina Pakulova
13:30-13:45	G-сеть с контрольными и карантинными очередями и возможностью перемещения сигналов между системами сети Dzmitry Kopats

13:45-14:00 О генерации временных рядов значений мощности принимаемого сигнала на основе измерений в терагерцовых системах 6G
Vitalii Beschastnyi, Egor Machnev, Elizaveta Golos, Daria Ostrikova, Yuliya Gaydamaka, Alexander Shurakov, Gregory Goltsman

14:00-14:15 Влияние характеристик пропускной способности канала на задержку при различных политиках планирования полудуплексного режима передачи
Anna Zhivtsova, Vitalii Beschastnyi, Konstantin Samouylov

14:15-14:30 Применение модели поллинга с произвольным числом очередей для оптимизации круговой задержки пакетов в сети IAB
Dmitry Nikolaev, Andrey Gorshenin

14:30-14:45 Пиковый возраст информации в многоадресной сети с пороговой схемой остановки передачи
Elisaveta Gaydamaka, Alexander Milekhin, Konstantin Samouylov

14:45-15:15 Coffee Break
University Canteen

- 15:15-15:30** О решении стационарных уравнений методом исключения переменных для порогового обслуживания конфликтных потоков
Andrei Zorine
- 15:30-15:45** Исследование RQ-системы с ожиданием заявок в бункере и на орбите методом асимптотически диффузационного анализа
Artem Podgainov, Anatoly Nazarov
- 15:45-16:00** Двумерный маркованный ММРР в предельных условиях изменения состояний управляемой цепи
Svetlana Paul, Anatoly Nazarov, Ivan Lapatin
- 16:00-16:15** Моделирование систем обслуживания $M/G/1/2$ с обновлением заявок
Andrey Alekseev, Irina Peshkova
- 16:15-16:30** Об оптимальном экспоненциальном расщеплении плотности
Sergey Astafiev
- 16:30-16:45** Вероятностные характеристики двупоточной неоднородной СМО в случайной марковской среде
Ekaterina Pavlova, Степан Шепилов
- 17:00-19:30** Gala Dinner
University Canteen

Chair: Leonid Sevastianov

- 11:00-11:15** A New Mining Consensus Algorithm:
A Binary Matrix Representation Based

Mostefa Kara, Abdelkader Laouid,
Mohammad Hammoudeh, Elena
Makeeva, Ahcene Bounceur

- 11:15-11:30** Capabilities of the software and
information environment of the
HybriLIT heterogeneous computing
platform for JINR tasks

Maxim Zuev, Anastasia Anikina,
Dmitry Belyakov, Tatevik Bezhanyan,
Oksana Streltsova, Maria Lubimova

- 11:30-11:45** Research of the VQ-f16 VAE latent
space compression methods for
FPV video stream

Alexander Chenskiy, Aleksandr
Berezkin, Ruslan Kirichek, Dmitry
Kukunin

- 11:45-12:00** Retrieval poisoning attack based
on prompt injections to Retrieval-
Augmented Generation with Active
Database

Yegor Anichkov, Viktor Popov, Sergey
Bolovtsov

- 12:00-12:15** Prompt Injection Attacks in
Defended Systems

Daniil Homskiy, Narek Maloyan,
Bulat Nutfullin

12:15-12:30 The algorithm for distributed calculating Gröbner or involutive bases of polynomial ideals
Anton Mamonov, Soltan Salpagarov, Blinkov Yury, Izabella Akopian

12:30-13:15 Lunch Break
University Canteen

Track C

Session C-2 Room 218

Chair: Irina Kochetkova

13:15-13:30 A Technique of Resource Allocation for Computationally Hard Optimization Problems Solving in Distributed Heterogeneous Dynamic Environments
Anna Klimenko

13:30-13:45 Development of Distributed Digital Twins of Complex Technical Objects Based on an Agent-Oriented Software Architecture
Alexey Kovtunenko

13:45-14:00 Discovering Topological parameters in Decentralized and Dynamically Changing Mobile Network
Margarita Orlova, Semion Chernin, Dmitry Orlov, Olga Morozova, Leonid Abrosimov

14:00-14:15 Energy-Efficient Framework for Task Caching and Computation Offloading in Multi-Tier Vehicular Edge-Cloud Systems
Ibrahim Elgendi, Abdukodir Khakimov, Ammar Muthanna

14:45-15:15 Coffee Break
University Canteen

17:00-19:30 Gala Dinner
University Canteen

September 26th, Thursday

12:00-16:00 Guided City Tour
Meeting point:
Chistye Prudy Station (metro line 1),
Griboyedov monument (exit 1)

September 27th, Friday

11:00-12:30 Round Table
Room 219
Future Networks 2030, Artificial
Intelligence and Big Data
Moderators
Vladimir Vishnevsky, Konstantin
Samouylov

12:30-12:45 DCCN Closing

KEYNOTE SPEAKERS

Prof. Neeraj Kumar

Thapar Institute of Engineering
and Technology, India

Prof. Neeraj Kumar (SMIEEE) (2019, 2020, 2021 highly-cited researcher from WoS) is working as a Full Professor in the Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala (Pb.), India. He is also adjunct professor at King Abdul Aziz University, Jeddah, Saudi Arabia and Newcastle University, UK.



He has published more than 500 technical research papers in top-cited journals and conferences which are cited more than 54900 times from well-known researchers across the globe with current h-index of 125. He has guided many research scholars leading to Ph.D. and M.E./M.Tech. His research is supported by funding from various competitive agencies across the globe. His broad research areas are Green computing and Network management, IoT, Big Data Analytics, Deep learning and cyber-security.

He has also edited/authored 10 books with International/National Publishers like IET, Springer, Elsevier, CRC. He has secured research funding of around 1 Million Euro from Govt of India, and Industries in the area of smart grid, blockchain, Cyber-Security and network management. He is consultant In various industry and govt. sponsored projects in China, Saudi Arabia and Europe. He has executed various international projects in Austria, Poland, Saudi Arabia, Europe and China. He has supervised more than 15 Ph.D. and 25 M.E./M.Tech. students. He is serving as editors of ACM Computing Survey, IEEE Transactions on Sustainable Computing, IEEE TNSM, Elsevier Computer Communication, Wiley International Journal of Communication Systems. Also, he has organized various special issues of journals of repute from IEEE, Elsevier, Springer.

He has been a workshop chair at IEEE Globecom 2018, IEEE Infocom 2020 and IEEE ICC 2020 and track chair of Security and privacy of IEEE MSN 2020. He is also TPC Chair and member for various International conferences such as IEEE MASS 2020, IEEE MSN2020. He has won the best papers award from IEEE Systems Journal in 2018, in 2020, and IEEE ICC 2018, Kansas-city in 2018. He has also won best paper award from Elsevier JNCA in 2021 and IEEE Comsoc IWCMC 2021. He has won the outstanding leadership award from IEEE Trustcom in 2021. Moreover, He won the best researcher award from parent organization every year from last eight consecutive years.

Prof. Abdelkader Laouid

University of Echahid Hamma Lakhdar, Algeria

Prof. Abdelkader Laouid is a distinguished computer science professor and researcher at the University of El Oued, Algeria, where he serves as the Head of the LIAP Artificial Intelligence Laboratory and Director of the Artificial Intelligence House.

With a Ph.D. in Computer Science from the University of Béjaïa 2017, Prof. Laouid has significantly contributed to the fields of distributed systems, cybersecurity, and artificial intelligence.



He has overseen multiple Ph.D. dissertations and spearheaded several innovative projects, including the development of CupCarbon, a renowned IoT simulator. Prof. Laouid is actively involved in university ranking and research production evaluations, reflecting his commitment to advancing academic and research excellence.

Prof. Sachin Sharma

State Bank of India, India

With over 16 years of extensive industry experience in Fortune 500 organizations such as International Business Machines (IBM), Tata Consultancy Services (TCS), and State Bank of India (SBI), Dr. Sachin Sharma brings a wealth of expertise to the table. His diverse background spans sectors such as Telecommunication Technology, Retail, BFSI, and various IT domains. In 2020, Dr. Sharma earned a Ph.D. from Maharishi Markandeshwar University Mullana, demonstrating his commitment to advancing knowledge.



His exceptional research contributions secured the prestigious Research Fellowship in Banking Technology for 2021-22, a collaboration between IIBF and IDRBT. Dr. Sharma's research interests encompass cutting-edge domains like Data Analytics, Information Security, Networking, and Biometrics. Additionally, he holds renowned international certifications, including Project Management Professional (PMP), TOGAF 9 Enterprise Architecture Certificate, and Oracle Certified Professional (OCP) DBA, further enhancing his global industry recognition.

Prof. Abdelhamied A. Ateya

Zagazig University, Egypt & Prince Sultan University, Saudi Arabia

Abdelhamied A. Ateya (Senior Member, IEEE, 2021) received the B.Sc. and M.Sc. in Electrical Engineering from Zagazig University, Egypt, in 2010 and 2014, respectively. In 2019, he received the Ph.D. from Saint-Petersburg State University of Telecommunications, Russia.

He is currently an Assistant professor at the Electronics and Communications Engineering Department, Faculty of Engineering, Zagazig University, and a Researcher at the EIAS Data Science Lab, College of Computer and Information Sciences, Prince Sultan University, Riyadh, Saudi Arabia.

He has co-authored more than 70 publications in high-ranked journals. He is a member of many scientific communities. Dr. Abdelhamied is an IEEE Senior Member and an ACM prof. Member. He has been an active member of several international journals and conferences, with a contribution as an author, a reviewer, an editor, or a member of program committees. His current research interests include machine learning applications in communication networks, 5G/6G communications, Internet of Things, Tactile Internet and its standardization, and Vehicular communications.



Prof. Ammar Muthanna

The Bonch-Bruevich Saint Petersburg State University of Telecommunications, Russia

Ammar Muthanna is an Associate Professor at the Department of Telecommunication networks, Deputy head of Science and Director of the Scientific Center for Modeling Wireless 5G Networks, Institute of Applied Mathematics and Telecommunications, RUDN University. He received his B.Sc. (2009), M.Sc. (2011) and as well as Ph.D. (2016) degrees from Saint - Petersburg State University of Telecommunications. 2017-2019 he worked as Postdoctoral Researcher at RUDN University.



In 2012 and 2013, he took part in the Erasmus Student Program with the Faculty of electrical engineering, University of Ljubljana and in 2014 visitor researcher at Tampere University, Finland. Ammar is a senior member of the IEEE and ACM member. He has been an Active Member of the Technical Program Committee on many international conferences and journals. He has been an expert at the Judges Panel and Challenge Management board at AI-5G-Challenge, ITU and Russian host organizer. Area of research: wireless communications, 5G/6G cellular systems, IoT applications, Edge computing and software-defined networking.

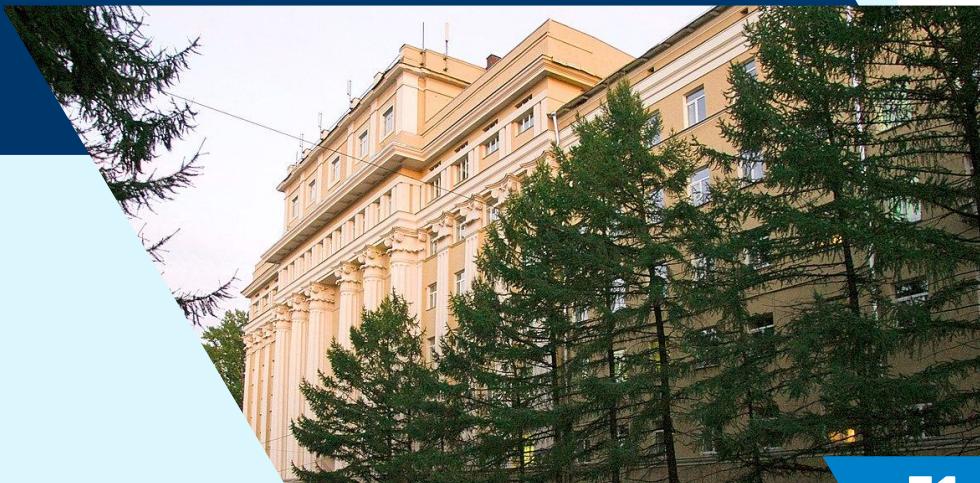
ADDITIONAL ACTIVITIES

All guests are invited to the Welcome Reception and Gala Dinner that are being held at the University Canteen.

Welcome Reception & Gala Dinner

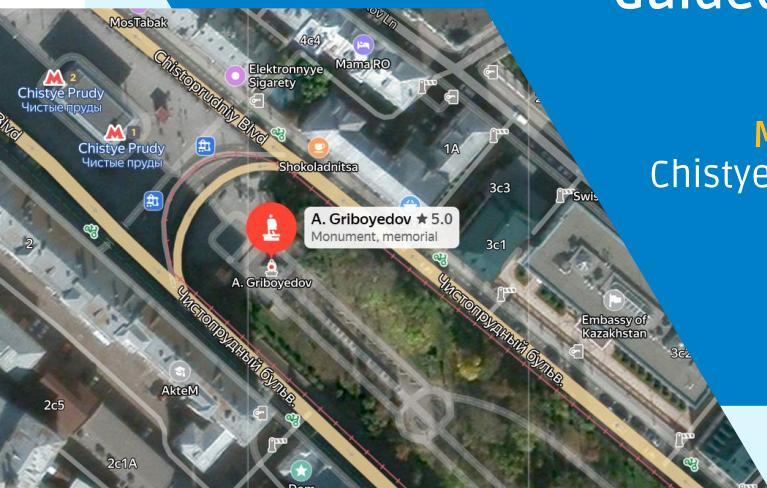
Meeting point:
3 Ordzhonikidze str.
Moscow

University Canteen



Guided City Tour in Russian

Meeting point:
Chistye Prudy Station
(metro line 1),
Griboyedov
monument
(exit 1)



The guests will be shown an "unusual" Moscow in the Pokrovka area, Chistye Prudy, Ivanovskaya Gorka. A route where you can walk through a network of alleys, and look into courtyards, and go through the Lutheran church, and through the Novo-Ioannovsky Monastery, and finish at the Kitay-Gorod metro station on Solyanka Street.

After the walk, guests can relax and have a snack in the cafe (there are many of them for every taste). Or - if you want to continue - walk on your own along Varvarka to Zaryadye Park and Red Square (this is near the metro station Kitay-Gorod, the way will be demonstrated if it's needed).

