27-TH
INTERNATIONAL
CONFERENCE ON

DISTRIBUTED COMPUTER AND COMMUNICATION NETWORKS

CONFERENCE PROGRAM

DCCN 2024

23-27 SEP. 2024

MOSCOW • RUSSIA

RUDN university

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ИКТ

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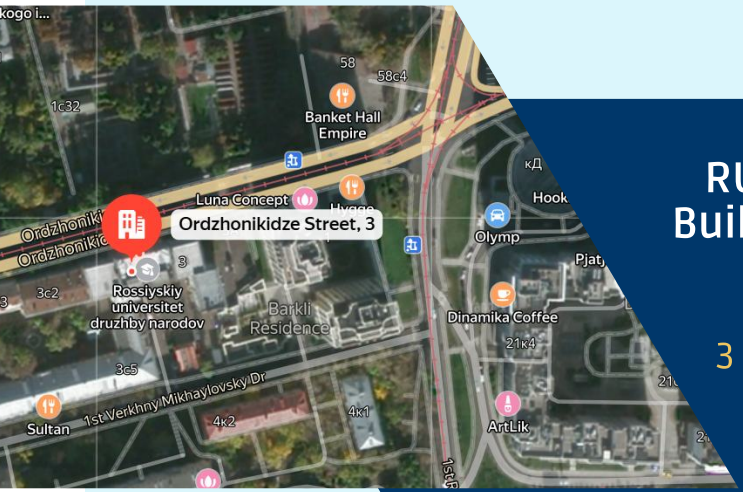
VENUE



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, The 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 Elgendy

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

Session A-2

Room 208

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, Safdar 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 Multymodal 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 Gaidamaka, 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

Session B-1.6
Room 219
Chair: Ekaterina Markova

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 диффузионного анализа
Artem Podgainov, Anatoly Nazarov

15:45-16:00 Двумерный маркированный MMPP в предельных условиях изменения состояний управляющей 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

Track C

Session C-1

Room 218

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 Elgendy, 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
Moderatos
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 Newcatle 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

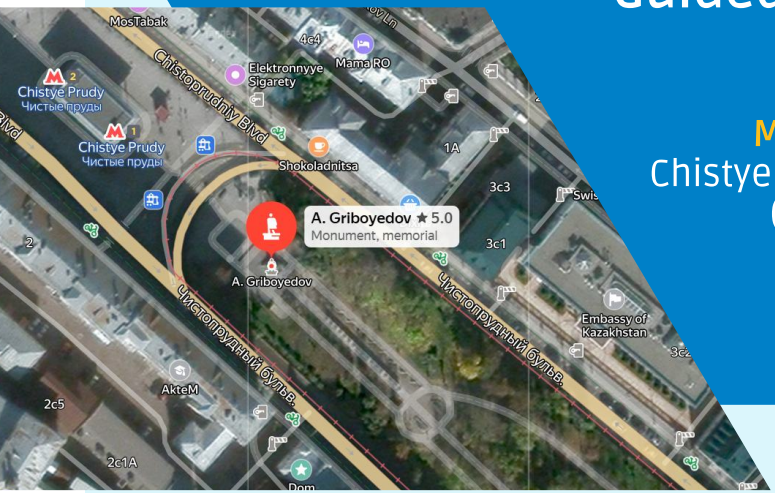
Meeting point:
3 Ordzhonikidze str.
Moscow

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).