CLA 2016

Conference Program

The 13th International Conference on

Concept Lattices and Their Applications

18–22 July, 2016
Moscow, Russia

Welcome

It is our pleasure to welcome you on the 13th International Conference on Concept Lattices and Their Applications (CLA 2016) held in Moscow, Russia, July 18-22, 2016.

The CLA conference, organized since 2002, aims to provide to everyone interested in Formal Concept Analysis and more generally in Concept Lattices or Galois Lattices, an advanced view on some of the last research trends and applications in this field. It also aims to bring together students, professors, researchers and engineers, involved in all aspects of the study of concept lattices, from theory to implementations and practical applications. As the diversity of the selected papers shows, there is a wide range of research directions, around data and knowledge processing, including data mining, knowledge discovery, knowledge representation, reasoning, pattern recognition, together with logic, algebra and lattice theory.

The program of the conference includes four keynote talks given by the following distinguished researchers: Lev D. Beklemishev (Mathematical Institute of Russian Academy of Science, Moscow), Jérôme Euzenat (INRIA Grenoble Rhône-Alpes), Bernhard Ganter (TU-Dresden), Boris G. Mirkin (National Research University Higher School of Economics, Moscow). This year, 46 papers were submitted, from which 28 papers were accepted as regular papers. We would like to thank here the contributing authors for their valuable work, the members of the program committee and the external reviewers who analyzed the papers with care. All of them participated to the continuing quality and importance of CLA, highlighting its key role in the field.

Then we would also like to thank the steering committee of CLA for giving us the occasion of leading this edition of CLA, the conference participants for their participation and support, and people in charge of the organization, especially Larisa I. Antropova, Ekaterina L. Chernyak, Dmitry I. Ignatov, Olga V. Maksimenkova, whose help was very precious in many occasions and that contributed to the success of the event. We would like to thank our sponsors, namely National Research University Higher School of Economics, ExactPro company, Russian Foundation for Basic Research. Finally, we also do not forget that the conference was managed (quite easily) with the Easychair system, for many tasks including paper submission, selection, and reviewing. We hope you all enjoy the conference and your stay in Moscow!

July 2016

Marianne Huchard
Sergei O. Kuznetsov

Program Chairs of CLA 2016

CLA 2016 was organized by the National Research University Higher School of Economics.

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Sergei O. Kuznetsov   National Research University Higher School of Economics, Russia

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Proceedings Chair

Dmitry I. Ignatov	National Research University Higher School of Economics, Moscow

Sponsoring Institutions

Invited Speakers

	Data interlinking with formal concept analysis and link keys **Jérôme Euzenat** (INRIA Grenoble) Conference Hall, 5-th floor July 19, 10:15-11:15
	Strictly positive fragments of modal and description logic **Lev D. Beklemishev** (Mathematical Institute of Russian Academy of Science, Moscow) Conference Hall, 5-th floor July 20, 10:00-11:00
	Relaxing Formal Concepts: Approximate n-Clusters **Boris Mirkin** (Tenured Professor, School of Data Analysis and Artificial Intelligence, NRU HSE) Conference Hall, 5-th floor July 21, 10:00-11:00
	Things to do in Formal Concept Analysis **Bernhard Ganter** (Professor, TU Dresden) Conference Hall, 5-th floor July 22, 10:00-11:00

The 13th International Conference on Concept Lattices and Their Applications
National Research University Higher School of Economics, Moscow, Russia
July 18-22, 2016

PROGRAM SUMMARY

	July 18	July 19	July 20	July 21	July 22
9:00-9:30 am	Registration	Registration			
9:30-9:40 am	Registration	Registration			
9:40-10:00 am	Workshops	Registration			
10:00-10:15 am	Workshops	Welcome			
10:15-11:00 am	Coffee-break	Invited talk: Jérôme Euzenat	Invited talk: Lev D. Beklemishev	Invited talk: Boris G. Mirkin	Invited talk: Bernhard Ganter
11:00-11:20 am	Workshops	Coffee-break	Coffee-break	Coffee-break	Coffee-break
11:20-11:30 am	Workshops	Coffee-break	Coffee-break	Coffee-break	Coffee-break
11:30-1:00 pm	Workshops	Session 1 Tools and Data	Session 4 Many-Relational approaches and lattice structure	Session 5 Pattern Structures	Session 8 Metrics, distances and classification
1:00-2:00 pm	Lunch	Lunch	Lunch	Lunch	Closing session Lunch
2:00-3:20 pm	Workshops	Session 2 Implications, closure systems and	Excursion and conference dinner	Session 6 Fuzziness	
3:20-3:40 pm	Industrial presentation ExactPro	Session 2 Implications, closure systems and	Excursion and conference dinner	Session 6 Fuzziness	
3:40-4:00 pm	Coffee-break	Coffee-break	Excursion and conference dinner	Coffee-break	
4:00-4:30 pm	Tutorial: Sergei Obiedkov	Session 3 Applications	Excursion and conference dinner	Session 7 FCA-based resolution of reference problems	
4:30-5:00 pm	Tutorial: Jérôme Euzenat	Session 3 Applications	Excursion and conference dinner	Session 7 FCA-based resolution of reference problems	
5:00-6:20 pm	Tutorial: Jérôme Euzenat	Session 3 Applications	Excursion and conference dinner	Session 7 FCA-based resolution of reference problems	
6:20-6:30 pm	Welcome	local excursions		local excursions	
6:30-21.00 pm	Party	local excursions		local excursions	

Workshop Program

Workshop on Concept Discovery in Unstructured Data (CDUD)

July 18. Myasnitskaya 11, Conference Hall, 5th floor

9:40-10:20 am	**Invited talk:** Natalia Loukachevitch Sentiment analysis of Twitter messages: tasks, approaches and results
10:20-10.40 am	Valentin Malykh and Alexey Ozerin Reproducing Russian NER Baseline Quality Without Additional Data
10:40-11:00 am	Gillian Greene and Bernd Fischer Single-Focus Broadening Navigation in Concept Lattice
11:00-11:20 am	**Coffee-break**
11:20-11:40 am	Tatiana Litvinova, Pavel Seredin, Olga Litvinova, Olga Zagorovskaya, Alexandr Sboev, Dmitry Gudovskikh, Ivan Moloshnikov and Roman Rybka Predicting The Gender of an Author of a Russian Text Using Regression and Classification Techniques
11:40-12:00 am	Ekaterina Chernyak and Dmitry Ilvovsky Annotated Suffix Tree for Text Clustering
12:00-12:20 am	Mikhail Bogatyrev and Kirill Samodurov Framework for Conceptual Modeling on Natural Language Texts
12:20-12:40 am	Bato Merdygeyev and Sesegma Dambaeva The Evaluation of the Quality of Ontology Based on Analysis of Relations on Concept Lattice
12:40-1:00 pm	Umme Hafsa Billah, Sheikh Muhammad Sarwar and Abdullah-Al-Mamun Personalized Language Models for Computer-mediated Communication
1:00-2:00 pm	**Lunch**
2:00-2:20 pm	Abdus Satter, Amit Seal Ami and Kazi Sakib Identification of Dead Fields by Analyzing Usage of Setup Fields and Field Dependency in Test Code
2:20-2:30 pm	Mikhail Kreines and Elena Kreines Topic Modeling without Generative Probabilistic Model: Approach and its Validation (research proposal, 5 mins poster intro)
2:30-2:40 pm	Oksana Dereza and Vladislav Tushkanov Verb-Noun Collocation and Government Model Extraction from Large Corpora (research proposal, 5 mins poster intro)

Workshop on Experimental Economics and Machine Learning (EEML)

July 18. Myasnitskaya 11, Room 421, 4th floor

9:40-10:20 am	**Invited talk:** Vladimir Bobrikov, Elena Nenova and Dmitry Ignatov What is a Fair Value of Your Recommendation List?
10:20 - 10.40 am	Tatiana Babkina, Mikhail Myagkov, Evgeniya Lukinova, Anastasiya Peshkovskaya, Olga Menshikova and Elliot Berkman Choice of the Group Increases Intra-Cooperation
10:40 - 11:00 am	Ilya Makarov, Peter Zyuzin, Pavel Polyakov, Mikhail Tokmakov, Olga Gerasimova, Ivan Guschenko-Cheverda and Maxim Uriev Modelling Human-like Behavior through Reward-based Approach in a First-Person Shooter Game
11:00 - 11:20 am	Coffee-break
11:20 - 11:40 am	Ekaterina Mitrofanova and Alyona Artamonova Studying of the Family Formation Trajectories Deinstitutionalization in Russia Using Sequence Analysis
11:40 - 12:00 am	Henry Penikas and Maria Ermolova QAIDS Model Based On Russian Pseudo-panel Data: Impact of 1998 and 2008 Crises
12:00 - 12:20 am	Constantine Sorokin, Elizaveta Bespalova, Alim Moskalenko, Alexander Safin and Andrey Yagolkovsky Finding the Sweet Spot in the City: a Monopolistic Competition Approach
12:20 - 12:40 am	Evgenii Tsymbalov Churn Prediction for Game Industry Based on Cohort Classification Ensemble
12:40 - 1:00 pm	Nataly Zhukova and Mikhail Navrotskiy Scientific Portal of University Department – Shaping User's Research Area through their Behavior
1:00 - 2:00 pm	**Lunch**
2:00 - 2:20 pm	Rustam Tagiew and Dmitry Ignatov Gift Ratios in Laboratory Experiments
2:20 - 2:40 pm	Nikita Nikitinsky, Sergey Shashev, Polina Kachurina and Alexander Bespalov Big Data and Machine Learning in E-government: Automatic Expert Evaluation Case
2:40 - 3:00 pm	Alexander Porshnev, Valeriya Lakshina and Ilya Redkin Using Emotional Markers' Frequencies in Stock Market ARMAX-GARCH Model (remote talk)
3:00 - 3:20 pm	Sheen S. Levine and Charlotte Reypens Should I Stay or Should I Go? The Cognition of Exploration and Exploitation across Cultures (remote talk)

Workshop on Soft Computing Applications and Knowledge Discovery (SCAKD)

July 18. Myasnitskaya 11, Room 424, 4th floor

9:40-10:20 am	Xenia Naidenova, Vladimir Parkhomenko and Konstantin Shvetsov Modification of Good Tests in Dynamic Contexts: Application to Modeling Intellectual Development of Cadets
10:20 - 10.40 am	Tatyana Afanaseva, Nadezhda G. Yarushkina and Gleb Guskov ACL-Scale as a Tool for Preprocessing of Many-Valued Contexts
10:40 - 11:00 am	Alexey Namestnikov, Valeria Avvakumova and Alexandra Chekina The Ontology-Based Model of Technical Documentation Fuzzy Structuring
11:00 - 11:20 am	**Coffee-break**
11:20 - 11:40 am	Alexander Bozhenyuk and Evgeniya Gerasimenko Maximum Dynamic Flow Finding Task with the Given Vitality Degree
11:40 - 12:00 am	Marina Savelyeva and Marina Belyakova Motion Control in the Mechanical Transport System with Fuzzy Given Distance and Time.
12:00 - 12:20 am	Andrew Mironov Logics for Representation of Propositions with Fuzziness Modalities
12:20 - 12:40 am	Vitaly Martynovich and Evgenii Vityaev Recovering Noisy Contexts with Probabilistic Formal Concepts
12:40 - 1:00 pm	Andrew Bronevich, Alexander Lepskiy and Henry Penikas An Analysis of Coherence of Financial Analysts' Recommendations in the Framework of Evidence Theory
1:00 - 2:00 pm	**Lunch**
2:00 - 2:20 pm	Gerald Plesniewicz, Vu Nguen Thi Min and Dmitry Masherov Query Answering over Fact Bases for Fuzzy Interval Ontologies (research proposal)
2:20 - 2:40 pm	Artem Grachev and Andrey Shiriy Are Clustering Techniques Better than Binary Thresholding for Detection of Signal Tracks in Ionogramms? (research proposal, 10 mins)

Workshop on Algorithms for FCA and Data Mining (AFCADM)

July 18. Myasnitskaya 11, Room 426, 4th floor

2:00-2:20 pm	Simon Andrews Optimization Approaches for the Implementation of CbO-Type Algorithms
2:20-2:40 pm	Simin Jabbari and Kilian Stoffel A Hybrid Algorithm for Generating Formal Concepts and Building Concept Lattice Using NextClosure and Nourine Algorithms
2:40-3:00 pm	Simin Jabbari and Kilian Stoffel Parallel Execution of Binary-Based NextClosure Algorithm
3:00-3:20 pm	Aleksey Buzmakov FCAPS: a modular console Application for Pattern Structures

Main program

July 18. Myasnitskaya 11, Conference Hall, 5th floor

9:00-9:40 am	Registration (5-th floor)
09:40-11:00 am	Workshops
11:00-11:20	Coffee-break
11:20-1:00 pm	Workshops
1:00-2:00 pm	Lunch
2:00-3:20 pm	Workshops
3:20-3:40 pm	Industrial Presentation: Olga Moskaleva and Anna Gromova (ExactPro) Using intelligent systems and structural analysis to assure orderly operations of the modern trading and exchange platforms
3:40-4:00 pm	Coffee-break
4:00-5:00 pm	Tutorial: Sergei Obiedkov (NRU HSE, Moscow) Query Learning and Attribute Exploration
5:00-6:20 pm	Tutorial: Jérôme Euzenat (INRIA Grenoble) Introduction to ontology matching

July 19. Myasnitskaya 11, Conference Hall, 5th floor

9:30-10:00 am	Registration (5-th floor)
10:00-10:15 am	Welcome
10:15-11:15 am	Invited talk: Jérôme Euzenat. Chair: Peter Eklun Data interlinking with formal concept analysis and link keys
11:15-11:30 am	Coffee-break
11:30 - 1:00 pm	Session 1. Tools and Data. Chair: Alexey Buzmakov Mehwish Alam, Thi Nhu Nguyen Le and Amedeo Napoli LatViz: A new practical tool for performing interactive exploration over concept lattices Alexey A. Neznanov and Andrey A. Parinov Unified External Data Access Implementation in Formal Concept Analysis Research Toolbox Daniel Borchmann and Tom Hanika Some Experimental Results on Randomly Generating Formal Contexts
1:00-2:00 pm	Lunch
2:00-4:00 pm	Session 2. Implications, closure systems and their applications Chair: Jaume Baixeries Jessie Carbonnel, Karell Bertet, Marianne Huchard and Clémentine Nebut FCA for Software Product Lines representation: Mixing product and characteristic relationships in a unique canonical representation Estrella Rodríguez Lorenzo, Pablo Cordero, Manuel Enciso, Rokia Missaoui and Angel Mora Bonilla CAISL: Simplification Logic for Conditional Attribute Implications Francesco Kriegel, NextClosures with Constraints Alexandre Bazin Comparing Algorithms for Computing Lower Covers of Implication-closed Sets
4:40-4:30 pm	Coffee-break
4:30-6:30 pm	Session 3. Applications. Chair: Xavier Dolques Cynthia Pitou and Jean Diatta Textual information extraction in document images guided by a concept lattice Dmitry Palchunov, Gulnara Yakhyaeva and Ekaterina Dolgusheva Conceptual Methods for Identifying Needs of Mobile Network Subscribers Tim Wray, Jan Outrata and Peter Eklund Scalable Performance of FCbO Algorithm on Museum Data My Thao Tang, Aleksey Buzmakov, Yannick Toussaint and Amedeo Napoli Building a Domain Knowledge Model Based on a Concept Lattice Integrating Expert Constraints

July 20. Myasnitskaya 11, Conference Hall, 5th floor

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10:00-11:00 am	Invited talk: Lev D. Beklemishev. Chair: Manuel Ojeda-Aciego Strictly positive fragments of modal and description logic
11:00-11:30 am	Coffee-break
11:30-1:00 pm	Session 4. Many-Relational approaches and lattice structure. Chair: François Brucker Jens Kötters Intentional Concept Graphs as Patterns over Power Context Families Cristina Nica, Agnès Braud, Xavier Dolques, Marianne Huchard and Florence Le Ber Exploring Temporal Data Using Relational Concept Analysis - An Application to Hydroecological Data Laurent Beaudou and Lhouari Nourine Partial duplication of convex sets in lattices
1:00-2:00 pm	Lunch
2:00-10:00 pm	Excursion and conference dinner

July 21. Myasnitskaya 11, Conference Hall, 5th floor

10:00-11:00 am	Invited talk: Boris G. Mirkin. Chair: Pablo Cordero Relaxing Formal Concepts: Approximate n-Clusters
11:00-11:30 am	Coffee-break
11:30-1:00 pm	Session 5. Pattern Structures. Chair: Bernhard Ganter Alexey Masyutin and Sergei O. Kuznetsov Continuous Target Variable Prediction with Augmented Interval Pattern Structures: Lazy Algorithm Aleksey Buzmakov and Amedeo Napoli On Scaling of Fuzzy FCA to Pattern Structures Natalia V. Korepanova and Sergei O. Kuznetsov Pattern Structures for Treatment Optimization in Subgroups of Patients
1:00-2:00 pm	Lunch
2:00-4:00 pm	Session 6. Fuzziness. Chair: Jan Outrata Irina Perfilieva and Marek Vajgl Data Retrieval and Noise Reduction by Fuzzy Associative Memories Inma P. Cabrera, Pablo Cordero, Francisca García-Pardo, Manuel Ojeda-Aciego and Bernard De Baets On the existence of right adjoints for surjective mappings between fuzzy structures Tim B. Kaiser, Lars Lumpe and Stefan E. Schmidt A Fresh View on Fuzzy Formal Concept Analysis and Mathematical Morphology
4:00-4:30 pm	Coffee-break
4:00-6:30 pm	Session 7. FCA-based resolution of reference problems. Chair: Florence Le Ber Víctor Codocedo, Jaume Baixeries, Mehdi Kaytoue and Amedeo Napoli Characterization of Order-like Dependencies with Formal Concept Analysi Yury Kashnitsky and Sergei O. Kuznetsov Global optimization in learning with important data: an FCA-based approach Artem Bocharov, Dmitry Gnatyshak, Dmitry I. Ignatov, Boris G. Mirkin and Andrey Shestakov A Lattice-based Consensus Clustering Algorithm François Brucker and Pascal Préa The Approximate Seriation Problem in Formal Context Analysis

July 22. Myasnitskaya 11, Conference Hall, 5th floor

10:00-11:00 am	Invited talk: Bernhard Ganter. Chair: Amedeo Napoli Things to do in Formal Concept Analysis
11:00-11:30 am	Coffee-break
11:30-1:00 pm	Session 8. Metrics, distances and classification. Chair: Pascal Préa Tobias Gäbel-Hökenschnieder, Stefan E. Schmidt, Thorsten Pfeiffer and Mosadak Al Salamat Generalized metrics and their relevance for FCA and closure operators Dhouha Grissa, Blandine Comte, Estelle Pujos-Guillot and Amedeo Napoli A Hybrid Data mining Approach for the Identification of Biomarkers in Metabolomic data Sergei O. Kuznetsov and Tatyana Makhalova Stability for triadic concepts
1:00 pm	Closing session, Lunch

Social event on July 20
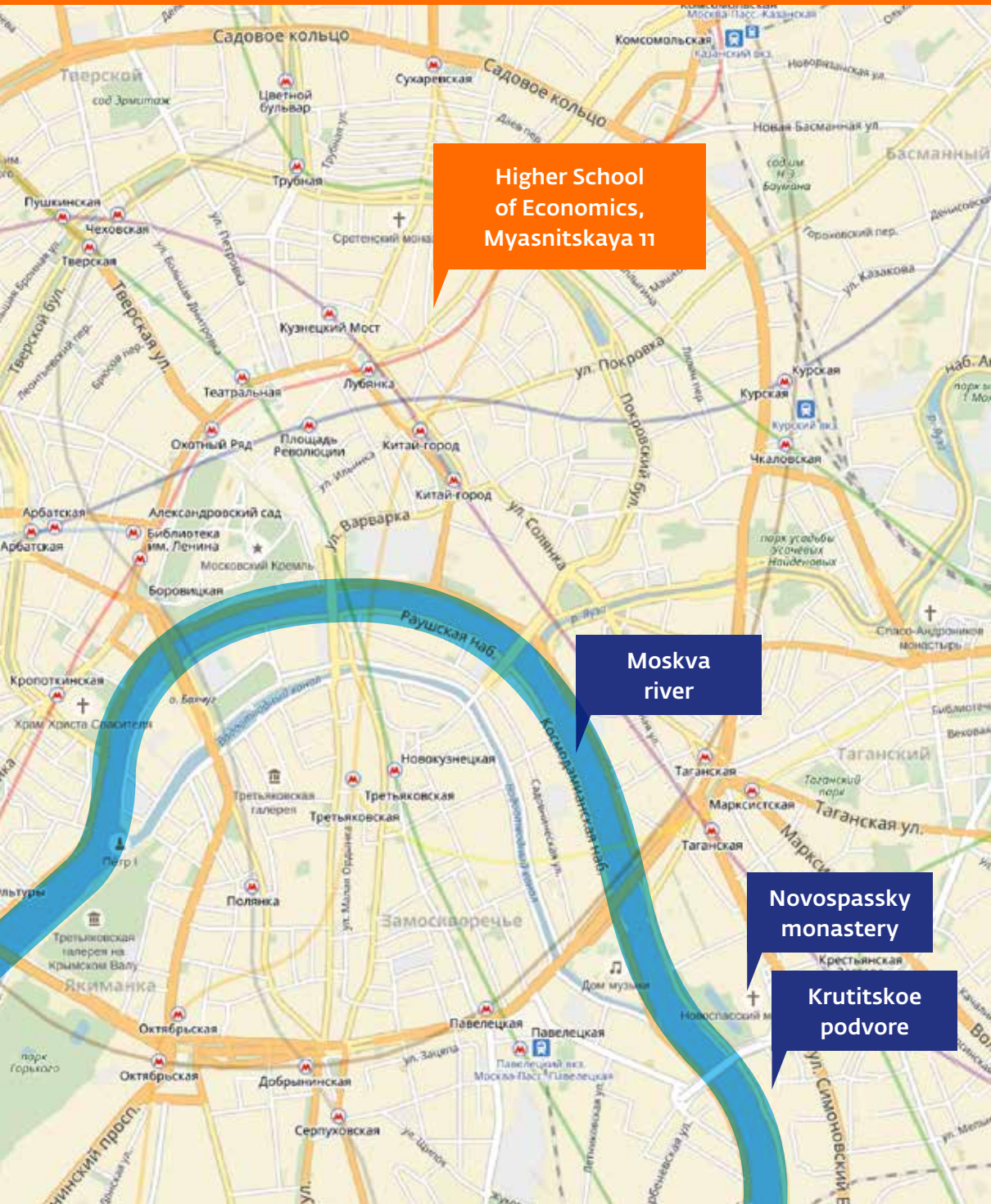
Novospassky monastery
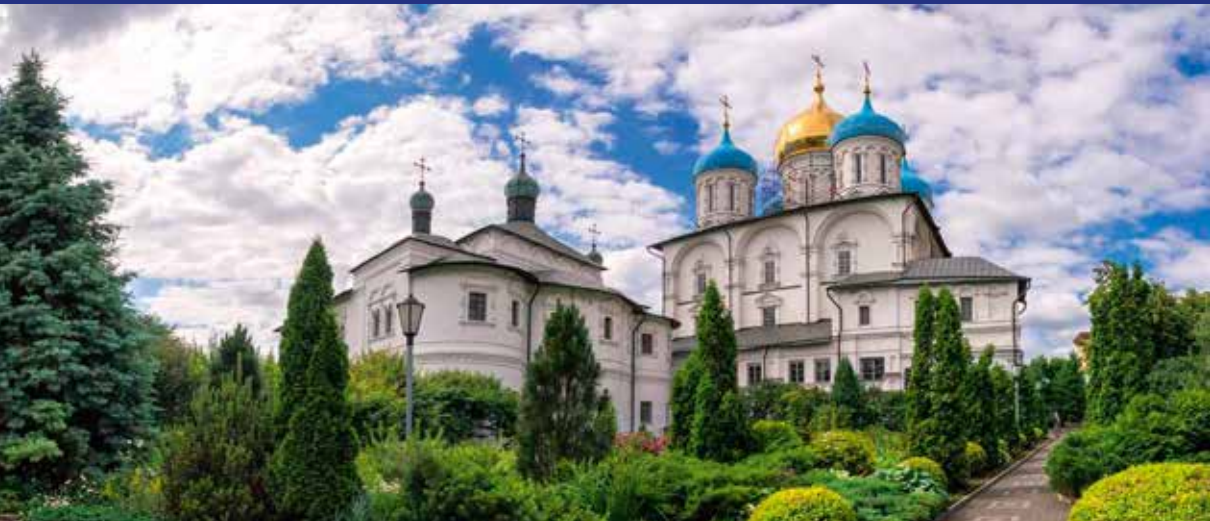
Krutitskoe podvore

16:00–21:00   **Boat trip on Moskva river**

Myasnitskaya street 11 (entrance adjacent to Myasnitskaya 13)

How to get there?

The HSE campus is easily accessible by subway, with the following stations just 5–10 minutes away:

– Lubyanka **(Лубянка) (**red line**)**
– Chistye Prudy **(Чистые пруды) (**red line**)**
– Turgenevskaya **(Тургеневская) (**orange line**)**
– Kitay-Gorod **(Китай-город) (**orange line**)**

Lubyanka metro station: Exit to Myasnitskaya Ulitsa, which you should follow. The destination will be on your right. Estimated travel time: 8 minutes.

Chistye Prudy and Turgenevskaya metro stations: Exit to Myasnitskaya Ulitsa, which you should follow towards the city centre. The destination will be on your left. **Estimated travel time: 7 minutes**.

Kitay-Gorod metro station: Exit to Ulitsa Maroseyka, which you should follow for 100 metres, then turn right onto Bolshoy Zlatoustinskiy Pereulok **(**350 metres**)**, and then bear right onto Myasnitskaya Ulitsa, which you should follow for 150 metres. The destination will be on your right. **Estimated travel time: 10 minutes.**

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Огни Москвы

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Петропавловский собор

Храм Космы и Дамиана Ассийских

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