

**Russian Association for History and Computing (AIK)**  
**Faculty of History of Moscow Lomonosov State University**  
*with the support of the RFBR (Russian Foundation for Basic Research)*



Moscow State University • Faculty of History  
Russian Association for History and Computing (AIK)

## **INTERNATIONAL CONFERENCE**

# **ANALYTICAL METHODS AND INFORMATION TECHNOLOGIES IN HISTORICAL RESEARCH: FROM DIGITIZED DATA TO KNOWLEDGE INCREMENT**

*16th International Conference of AIK*

**ACADEMIC PROGRAM**

*Conference partner - the company ROSGOSSTRAH*



*Moscow - Zvenigorod*  
*October 26–28, 2018*



## FRIDAY, OCTOBER 26

**9:00–11:30 – Registration of participants**  
(Moscow, Lomonosovsky Prospect, 27, block 4 – Shuvalovsky building,  
Faculty of History of Moscow State University, room E-253, 1<sup>st</sup> floor)

**12.00 –Departure of buses from the Shuvalovsky building to the guest house “Universitetsky”**

**13.30–14.30 – Accommodation in the guest house, lunch**

### **15:00 – Conference opening (assembly hall)**

*Vladimirov V.N. (AltGU, Barnaul)*. Opening speech.

### **15:10–17:30 –Plenary session (assembly hall)**

(Chairs – *V.N. Vladimirov, I.M. Garškova*)

*Vladimirov V.N. (AltGU, Barnaul)*. Russian Association for History and Computing in 2016-2018: the main activities.

*Nanetti A. (Nanyang Technological University, Singapore)*. Computational History: From Big (Multilingual) Data to Big (Transcultural) Simulations / Fifteenth-century world maps and chronicles as a showcase.

*Borodkin L.I. (MSU, Moscow)*. Modeling historical processes: new trends in cliometrics and cliodynamics.

*Kurochinsky P. (University of Applied Sciences, Mainz, Germany)*. Digital Heritage meets Digital Humanities – 3D as research technology

**17:30–18:00 – Coffee break**

### **18:00–19:30 (assembly hall)**

#### **Section “3D-reconstruction of historical and cultural heritage. VR / AR”**

(Chairs – *L.I. Borodkin, D.I. Zherebyat'ev*)

*Malyshev A.A. (Moscow), Novichikhin A.M. (Anapa), Moore V.V. (Sevastopol), D.I. Zherebyat'ev, Koroleva S.V., Dryga D.O. (Moscow)*. Virtual Museum of the Ancient Center of the Northern Black Sea region: antique Gorgippia.

*Borodkin L.I., Mironenko M.S., Belousova M.D., Khlopikov V.V., Chertopolokhov V.A (Moscow)*. Experience of using virtual and augmented reality technologies (VR / AR) in the tasks of reconstruction of the Passionate (Strastnoy) Monastery and Passionate Square.

*Borisova S.V., Kartashov S.A. (Yuriev-Polsky), Zherebyatiev D.I., Trishin I.G., Dryga D.O. (Moscow)*. Preservation of the cultural heritage of pre-Mongol Russia: reconstruction of the lost plots of stone reliefs of St. George's Cathedral of the 13<sup>th</sup> century.

*Guk D.Yu. (St. Petersburg)*. Documentation of archaeological excavations in the digital age.

**18:00–19.30 (room 1)**

**Section “Network analysis in historical research”**

*(Chairs – I.M. Garskova, A.V. Smetanin)*

***Salomatina S.A., Garskova I.M., Valetov T.Ya. (Moscow)***. Interregional calculations of the Oryol Commercial Bank in the second half of the 19<sup>th</sup> century: network analysis.

***Uspensky V.S. (St. Petersburg)***. The court "parties" in Russia in the middle of the 16th century: analysis of social networks.

***Kunavin K.S. (Tambov)***. Network connections of the highest bureaucracy representatives of the Russian Empire in the second half of the 19<sup>th</sup> century

***Akashева A.A. (Nizhny Novgorod)***. The experience of network analysis of the land tenant community in Nizhny Novgorod, 1870–1914. On the example of the owners of brick factories.

**18:00–19:30 (room 2)**

**Section “Information Technologies in Archeology”**

*(Chairs – I.V. Zhurbin, D.Yu. Guk)*

***Zhurbin I.V. (Izhevsk)***. Information technologies and comparative analysis of the complex data of interdisciplinary research in the study of archaeological objects.

***Krupochkin E.P. (Barnaul)***. Cartographic method in archaeological research: trends and prospects.

***Shchapova Yu.L. (Moscow)***. Archaeological time as the third time image.

***Grinchenko S.N., Shchapova Yu.L. (Moscow)***. Nature and man in the archaeological era: the harmony of relationships.

***19:30–20:30 – Dinner***

**20:30–22:00 (room 1)**

***AIK Board Meeting***

## SATURDAY, OCTOBER 27, MORNING

9:00–14:00 (assembly hall)

### Section “Quantitative history, modeling of historical processes”

(Chairs – *R.B. Konchakov, S.A. Salomatina*)

*Garskova I.M. (Moscow)*. Historical information science: a comparative analysis of national models.

*Shpirko S.V. (Moscow)*. About one model of the placement of centers of the medieval population (based on Pyatina of the Novgorod land).

*Konchakov R.B., Korchmina E.S. (Moscow)*. Who fed Moscow nobles? On the issue of geographical distribution of noble estates of Moscow nobility at the beginning of the 19<sup>th</sup> century.

*Kandaurova T.N. (Moscow)*. The quantitative history of the Russian Army in the first half of the 19th century: economic base military-settled organization.

*Muravjeva A.G. (Moscow)*. Bill rates and exchange rate on the Russian stock exchanges of the first third of the 19th century: source and statistical analysis.

*Klyaus M.P. (Moscow)*. Features of the historical and demographic development of the Bulgarian colonies of the south of Russia Empire in the first half of the 19th century: according to mass sources.

*Lyamin S.K. (Tambov)*. The new version of the fractal model of the South Russian frontier zone entry into Russian state.

*Valegina K.O. (St. Petersburg)*. Implementation of the reform provisions on February 19, 1861 in the Tambov province (quantitative analysis of mass sources).

*Razdina N.V. (Moscow)*. On the issue of analyzing the industry of the Vyatka and Yekaterinoslav provinces by materials of the governor's reports of the 19th century.

*Konchakov R. B., Karpenko M.A. (Moscow)*. The impact of rail transport on urban development of European Russia in the second half of the 19th - early 20th centuries.

*Batyrbaeva S.D. (Bishkek)*. Features of the Kyrgyz semi-nomadic and sedentary economy at the beginning of the 20th century at context of quantitative history.

*Kornienko S.I., Ekhlakova A.R. (Perm)*. Statistical models of vowel activity of the Perm provincial Zemsky assembly.

11:30 - 12:00 – *Coffee break*

9:00–14:00 (room 1)

### Section “Databases and information resources”

(Chairs – *V.V. Kanishchev, S.A. Bakanov, E.M. Glavatskaya*)

*Antopolsky A.B. (Moscow)*. Accounting for information resources of academic institutions in public sciences as a prerequisite for their integration.

*Miloserdova E.I. (Tambov)*. Nonlinear multimedia projects: web documentary as a language of historical narrative.

*Durnovtsev V.I. (Moscow)*. On the issue of information resources of the ecological history of Russia.

*Volodin A.Yu. (Moscow)*. Data – “big”, “medium”, “small”: metaphors or tools?

*Thorvaldsen G. (Tromsø, Norway)*. Record linkage for the 20th century socio-medical research.

*Glavatskaya E.M. (Ekaterinburg)*. “Ural Population Register”: creation experience and preliminary results works with a database on materials of metric books of Yekaterinburg.

**Borovik Yu.V., Palkin A.S. (Ekaterinburg).** Orthodox minorities of the Ural city at the beginning of the 20th century: permeable boundaries and insurmountable barriers (according to the materials of the database “Metric Books Yekaterinburg”).

**Bobitsky A.V. (Ekaterinburg).** Mortality of Muslims in Yekaterinburg in the late 19th – early 20th centuries: experience creating and using a database based on metric books.

**Zabolotnykh E.A. (Ekaterinburg).** Jewish Religious Community Based on Metric Books 1906–1917.

**Bryukhanova E.A. (Barnaul).** Internet information system based on the materials of the First Universal Census population of the Russian Empire in 1897.

**Bryukhanova E.A., Nezhentseva N.V. (Barnaul).** The structure of the source-oriented database by Primary materials of the census of 1897: features of development.

**Sarafanov D.E. (Barnaul).** Information technologies in the study of the urban space of Siberian cities of 19th - early 20th centuries.

**Sarafanov D.E. (Barnaul).** Mortality in Barnaul in the 19th – early 20th centuries (demographic analysis time series).

**Strekalova N.V., Strekalov D.V. (Tambov).** The population of a provincial urban family at the end of the 18th -first half of the 19th century (on materials of Tambov).

**Zhitin R.M., Topilsky A.G. (Tambov).** The estates of large landowners of the Tambov province at the end of the 19th century: database analysis.

**9:00–11:30 (room 2)**

**Section “Information resources of archives, museums and libraries  
in the information support of historical research”**

*(Chairs - Yu.Yu. Yumasheva, I.N. Kiselev, E.V. Bobrova)*

**Yumasheva Yu.Yu. (Moscow).** Information resources of archives: to the question of the possibility of using historical research.

**Golovkova E.P. (Moscow).** Interarchive reference books of the Runet.

**Kiselev I.N. (Moscow).** Russian roads to archival documents: archival directories on the Internet.

**Gerasimova Yu.N. (Moscow).** Preparation of an information resource based on integrated methods for source study of archival documents of the Central State Archive of the Moscow Region.

**Bobrova E.V. (Moscow).** Paths of archive websites.

**Vorontsova E.A. (Moscow).** Comparative analysis of the role of the main types of information repositories (museums, libraries, archives) and types of information in the information support of historical science.

**11:30–12:00 –Coffee break**

**12:00–14:00 (room 2)**

**Section “Computerized analysis of narrative sources”**

*(Chairs – A.Yu. Volodin, S.I. Kornienko)*

**Soloschenko N.V. (Moscow).** The development of the food industry of the USSR in 1933–1937 on factory newspapers: content analysis of the newspaper “For the Fighting Pace”.

**Grebenchenko I.V. (Moscow).** The interaction of the creators of the Soviet cosmonautics: content analysis of memoirs.

**Voronkova D.S. (Moscow).** Quantitative analysis of the publications of the journal “Bulletin of Finance, Industry and Trade” for 1917.

**Simonzhenkova E.M. (Moscow).** Content analysis of the memoirs of female prisoners from Sakharov Center.

**Yashchenko A.V. (Perm).** Newspaper periodicals as a source on the history of the relationship of the provincial government, zemstvos and mining industry (1905–1917).

**Ismakaeva I.D. (Perm).** The concept and types of literacy at the beginning of the 20<sup>th</sup> century: the experience of content analysis of materials of Perm provincial periodicals.

**14:00–15:00 – Lunch**

**SATURDAY, OCTOBER 27, EVENING**

**15:00–17:00 (assembly hall)**

**Section “Quantitative history, modeling of historical processes”**

*(Chairs – R.B. Konchakov, S.A. Salomatina)*

**Dmitrieva A.V. (Moscow).** “The catastrophe that broke out quite unexpectedly”: the stock market crisis of 1899 in dynamics of exchange rate.

**Anisimova D.V. (Moscow).** Counterfactual modeling of the St. Petersburg Stock Exchange index dynamics (1914–1915): experiment with the ARIMA model.

**Nezhentseva N.V. (Barnaul).** Methods of identifying and studying the professional mobility of urban population of Tobolsk province (based on the census of 1897).

**Kanishchev V.V., Zhukov D.S. (Tambov).** Factor analysis in the study of pogroms in the cities of Russia in 1917-1918.

**Alyotkina E.Yu. (Moscow).** Statistical analysis of the dynamics of wages in enterprises of the association “Tatneft” (1950s – 1980s).

**Smetanin A.V. (Perm).** Pulse of post-war Soviet industry: reconstruction of microeconomic time series.

**Kuzmin Yu.V. (Moscow).** Quantitative history of aircraft industry of the 20<sup>th</sup> century.

**15:00–17:00 (room 1)**

**Section “Databases and information resources”**

*(Chairs – V.V. Kanishchev, R. B. Konchakov)*

**Vorobyova E.M. (Tambov).** Database of graduates of the Imperial School of Law as a tool for analysis of the effectiveness.

**Bakanov S.A., Botova A.A. (Chelyabinsk).** Electronic database “Budgets of the city of Chelyabinsk in the second half of the 20<sup>th</sup> – early 21<sup>st</sup> centuries” and its heuristic possibilities.

**Pushkov V.P., Zavyalov S.M. (Moscow).** Natives of the Moscow province according to the database of Moscow University graduates (1877–1916) and freshmen (1917/18).

**Maslov V.N. (Kaliningrad).** Designing the database “Echelon lists of immigrants to Kaliningrad region. 1946–1947 years”.

**Bogdanov V.P. (Moscow).** Chronology of records on copies of old printed Cyrillic publications: what did database show?

**Bystritsky N.I. (Moscow).** The development of information resources on Byzantine studies.

**15:00–17:00 (room 2)**

**Section “Historical Geoinformatics”**

*(Chairs – A.A. Frolov, T.Ya. Valetov, E.P. Krupochkin)*

**Frolov A.A. (Moscow).** Method of GIS modeling of the road network of the Novgorod land according to the mid-16<sup>th</sup> century administrative reference book of the distances.

**Kutakov S.S. (Moscow / Tver).** The development of the local system in the Tver district of the 16<sup>th</sup> century.

**Savinova A.I., Stepanova Yu.V. (Tver).** Resettlement of “Korelians” to the Upper Volga region in the 17<sup>th</sup> century: analysis by GIS technology.

**Grishin E.S. (Moscow).** Dissemination of information in the medieval space based on spatial activity of Henry IV in 1063–1073 and its reflection in narrative sources.

**Ivakin Y.A., Potapychev S.N. (St. Petersburg).** Testing the hypotheses of historical research based on geochronological tracking.

**Chekryzhova O.I. (Barnaul).** Reconstruction of the social space of the cities of Siberia of the late 19<sup>th</sup> – early 20<sup>th</sup> centuries using GIS technology.

**Vladimirov V.N., Krupochkin E.P. (Barnaul).** Geoinformation mapping of urban infrastructure dynamics in historical reconstructions (examples of Barnaul and Biysk).

**Valetov T.Ya. (Moscow), Radisch E. (Passau University, Germany).** The program of automatic linking of settlements to the map and its use for visualization of the urbanization process in Russia in 1897–1959.

**17:00–17:30 – Coffee break**

**17:30–18:30 – Plenary session (assembly hall)**

*(Chairs – E.V. Zlobin, S.A. Bakanov)*

**Schurer K. (Leicester University, Great Britain).** Tales of a big data historian.

**Mozhaeva G.V. (Tomsk).** Advanced educational technologies: the answer to the challenges of digitalization and personalization.

**18:30–19:45 (assembly hall)**

**Round table “Historical education in the conditions of digitalization”**

*(Moderators – M.E. Vayndorf-Sysoeva, G.V. Mozhaeva)*

***Issues for discussion:***

1. The digital environment as a condition for the development of modern education.
2. Advanced educational technologies: which technologies are important in historical education?
3. The tutor in a digital environment: how to use online technologies to be successful?

**20:00 – Conference dinner (*Friendly dinner*)**

**SUNDAY, OCTOBER 28**

**9:30–11:00 (assembly hall)**

**Section “Historical Geoinformatics”**

*(Chairs – A.A. Frolov, T.Ya. Valetov, E.P. Krupochkin)*

**Mishina E.M. (Moscow).** Spatial analysis of regressions in Altai in 1935–1937: application of statistical methods and GIS.

**Schekotilov V.G., Lazarev O.E., Shalaeva M.V., Schekotilova S.N. (Tver).** Military topographic map of European Russia as the most demanded database of scientific and educational geoportal.

**Baranova E.V., Kurgansky A.A. (Kaliningrad).** Creating a geographic information system “Relocation of intellectuals to the Kaliningrad region”.

**Elemanova R.T., Dyakova G.S. (Barnaul).** Geoinformation analysis of socio-demographic processes in Kyrgyz Republic (1989–2015)

**Golubinsky A.A. (Moscow).** Reconstruction of the territory of modern Moscow according to the plans of the General land survey.

**9:30–11:00 (room 1)**

**Section “Computerized analysis of narrative sources”**

*(Chairs – A.Yu. Volodin, S.I. Kornienko)*

**Ivanova N.P. (Barnaul).** Thematic content analysis of events in the life of a princely family in Novgorod chronicles based on the database “Chronology of Novgorod chronicle of the 9th – mid 15th century”.

**Saenko A.V. (Kaliningrad).** Images of Poles, Russians and Frenchmen during Napoleon’s campaign in Russia in 1812 (content analysis of “Gazeta Krakowska”).

**Povroznik N.G., Kornienko S.I. (Perm).** Priorities in the activities of Russian zemstvos in the second half of the 19<sup>th</sup> century according to the content analysis of the magazines of the provincial Zemstvo collections.

**Oiva M. (University of Turku, Finland).** Yves Montand in the USSR – and in the Soviet Media.

**Shpirko S.V. (Moscow).** The nuances of the fuzzy classification of medieval texts (on the material of one original ancient Russian works).

**9:30–11:00 (room 2)**

**Section “Information technologies in teaching historians. Digital learning”**

*(Chairs – G.V. Mozhaeva, A.V. Shtyrov)*

**Shtyrov A.V. (Volgograd).** Online education technologies in the training of a pedagogue-historian.

**Vayndorf-Sysoeva M.E. (Moscow).** Risks in the practices of a modern tutor.

**Volodin A.Yu. (Moscow).** Trends in the Internet-heuristics: everyday habits, conscious barrier and professional needs (teaching experience at the Department of Historical Information Science of Moscow State University).

**Ilyashenko, V. A. (Moscow).** Digital processing of audiovisual documents and non-linear video editing: historical applications (teaching experience at the Department of Historical Information Science of Moscow State University).

**Zlobin E.V. (Moscow).** The first publications about the world’s first computer.

**Mozhaeva G. V.** How to use profile data of students in the social network VKontakte.ru to solve pedagogical tasks?

**11:30–12:00 – Coffee break**

**11:30–12:45 (assembly hall)**  
*Summing up the conference. Reports by Section Chairs.*  
*Presentation of new publications (E.A. Vorontsova, I.M. Garskova)*

**12:45–14:00 (assembly hall)**  
*General meeting of AIK members*

*14:00–14:45 – Lunch*

*15.00 – Departure of buses to Moscow*

**Conference sections:**

1. Quantitative history, modeling of historical processes.
2. Computerized analysis of narrative sources.
3. Databases and information resources.
4. Network analysis in historical research.
5. Historical Geoinformatics.
6. 3D-reconstruction of historical and cultural heritage. VR/AR.
7. Information technologies in archaeology.
8. Information technologies in archives and museums.
9. Information technologies in teaching historians. Digital learning.