



Russian Academy of Sciences  
Russian Foundation for Basic Research  
Ailamazyan Program Systems Institute of RAS  
Institute of Informatics Problems of RAS  
Ailamazyan University of Pereslavl  
Moscow ACM SIGMOD

**XIV All-Russian Scientific Conference RCDL-2012**  
**"Digital Libraries: Advanced Methods and Technologies,**  
**Digital Collections"**

Pereslavl-Zalessky, October 15 - 18, 2012  
<http://rcdl2012.pereslavl.ru>

**First Call for Papers**

Digital Libraries (DL) is a field and subject of research and development aimed at promotion of the theory and practice of processing, distribution, storage, retrieval and analysis of digital objects of different nature. These contemporary repositories of knowledge appear as complex information systems, development and use of which require the solution of many scientific, technological, methodological, economic, legal and other issues. Alongside with textual and multimedia digital objects, usual for traditional libraries, such systems have to deal with structured data, with a great variety of digital objects of a various nature as well as with describing them metadata. Challenges associated with the management of so diverse information resources and the increasing variety of user needs invoke multitude of advanced information system technologies. In recent years, the new web technologies are more and more widely applied here, first of all the technologies and standards of the Semantic Web.

Development of Digital Libraries technologies is becoming more and more essential to meet higher standards of science, economics, education, culture, health as well as of the quality of life in general. Scientific Digital Libraries play an important role in actively promoted initiatives of the scientific community in providing of the open access to research results and in the formation of the open science. Intensive activity in different countries on the digital preservation of information accumulated by the mankind on the Earth, the Universe, Science, Literature, Art, Environment and Man, contributes to formation of global knowledge and data repositories.

The series of the All-Russian scientific conferences RCDL is presented on the site <http://rcdl.ru>. They aimed at the formation of the Russian corps of the global DL community of scientists. The conferences held in the cities of St. Petersburg, Protvino, Petrozavodsk, Dubna, Pushchino, Yaroslavl, Suzdal, Pereslavl, Petrozavodsk, Kazan and Voronezh and attended by more than a thousand scientists from leading Russian and foreign research centers in Austria, Germany, Greece, Italy, New Zealand, USA, Ukraine and other countries.

**The main RCDL features:**

- ✓ Inclusion of the leading Russian and foreign experts in the RCDL area into the Program Committee;
- ✓ Competitive selection of extended abstracts (each submission is peer reviewed by three experts);
- ✓ Refinement of the papers by the authors based on the results of peer review prior to their publication;
- ✓ The responsibility of the authors for the quality of papers and presentations put on the Web in a freely available form;
- ✓ Bilingual reporting (at least a paper text or presentation is recommended to be in English), facilitating the perception by foreign colleagues;
- ✓ Young scientist participation support (compensation of expenses, rewarding the best papers, scientific mentoring);
- ✓ Publication of the best papers in journals recognized by the Higher Attestation Commission of Russia (VAK).

As a tradition, the Russian Information Retrieval Evaluation Seminar and the workshop Doctoral Research on Information Technologies Related with Digital Libraries are co-located with the conference. The doctoral workshop provides to the authors of papers selected on the basis of preliminary reviewing, the opportunity to present current results of their research and discuss their strengths and weaknesses with more experienced colleagues. The best papers of the workshop are also recommended for publication in journals recognized by the VAK.

**RCDL-2012 conference topics**

- Advanced projects for digital libraries and their implementation experience;
- Organization of DL information resources;
- DL architectures and infrastructures;
- Infrastructures and applications for extra large amounts of data («Big data», Grid);
- Semantic integration of information resources from a set of heterogeneous sources;
- Metadata, ontologies, methods and tools for knowledge representation;
- Semantic Web and Linked Data;
- Web of Data;
- Digital libraries of data;
- Data Mining;
- Extracting information from texts;
- Methods and technologies for processing and retrieval of textual, multimedia and semistructured information;
- Methods and tools for spatial data management;
- Digital preservation of scientific and cultural heritage;
- Information security;
- Virtual environments for research;
- Scientometrics in digital libraries;
- Social networks;
- User behavior modeling;
- User interfaces, personalization of interfaces;
- Models and tools for assessment and monitoring of digital resource quality;
- Tools for development of digital libraries and digital collections;
- Digital Libraries in science, education, culture, medicine, economics, museums, e-governments.

**Support for young scientists**

Important RCDL goals are attraction of young scientists and students to work on current issues in the field of digital libraries and creation of a platform for scientific discussions of the science, higher education and industry representatives. Program Committee will identify and mark the best student papers on RCDL.

Traditionally, the conference RCDL is supported by the Russian Foundation for Basic Research (RFBR). Therefore, young authors or co-authors of the papers, presented at the conference, can count on the support of RFBR in the annual contest "mob\_3\_ros" (participation of young Russian scientists in scientific events held in Russia).

**Publication**

Conference Proceedings will be published as a collection of full texts of accepted papers, short papers and abstracts of posters, as well as in electronic form on a permanent conference website <http://rcdl.ru> and the European repository of the CEUR Workshop Proceedings, to provide for better visibility of RCDL-2012 publications for the international scientific community.

Selected articles presented at the conference and recommended by the Program Committee are planned to be published as the electronic proceedings of the conference in the online journal "Program Systems: Theory and Applications". This publication meets all criteria of VAK, and makes the selected papers more visible and indexed by such author citation indexing systems as the Russian Science Citation Index (RINC), Google Scholar and MathNet.

**Venue**

In 2012, the RCDL conference will be held from 15 to 18 October in Pereslavl-Zalessky. Pereslavl is an ancient Russian town, located in one hundred and forty kilometers to the north-east of Moscow, on the federal highway Moscow-Kholmogory. Pereslavl-Zalessky and its surroundings are famous for its history, architectural monuments and extremely beautiful nature. It is located in the heart of the Golden Ring of Russia and is known as the cradle of the Russian Navy. Part of the surrounding natural and historic landscapes are included in the national park "Pleshcheevo lake."

The conference is held by the Ailamazyan Institute of Program Systems, Russian Academy of Sciences (PSI RAS), created in 1984 and known for his works in the field of parallel programming, artificial intelligence, information systems for medicine, systems analysis and design cost-effective technologies for regional telecommunications. Geographically, PSI RAS is located on the outskirts of the village Veskovo four kilometers from Pereslavl. The conference will take place within the walls of PSI RAS. The participants will be provided with several Internet-connected computers in the lobby and wireless Internet access for laptops.

### **Submission and presentation**

Working languages are Russian and English. Extended abstracts and papers can be in any of them. It is strongly recommended that the languages of the report and presentation were different, it helps to follow the thread of speech to both Russian and foreign participants. The Program Committee looks forward to the unpublished earlier works, with predominantly exploratory nature and original R&D results.

Extended abstracts are to be presented to the Program Committee in electronic form via the conference website in PDF or RTF. Volume of extended abstracts may not be less than 2000 words. Abstracts should provide a fairly complete picture of the paper content, include a list of references and/or links to Internet resources. When submitting extended abstracts, authors should specify to which of the basic topics of the conference their papers are related. Several suitable areas listed above in the conference topics can be specified simultaneously.

The selection of papers by the Conference Program Committee is based on reviewing the texts of extended abstracts. The Program Committee may accept the submission as a short paper (2000 - 3000 words) if it contains interesting results, but does not look sufficient for publication as a full article. Accepted papers must be prepared in accordance with the rules, which will be published on the conference website.

RCDL conferences hold face to face. Acceptance of a paper by the Program Committee assumes mandatory registration and participation of at least one of the authors at the conference and personal presentation of this work.

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### **Important dates**

**May 20, 2012** — submission deadline for extended abstracts, at least 2000 words including references, in Russian or English.  
**April 1, 2012** — deadline for applications of tutorials and co-located workshops.  
**June 24, 2012** — before this date authors of papers will be notified on the paper status (accepted / rejected).  
**September 3, 2012** — deadline for the camera ready accepted papers submission.