Russian Foundation for Basic Research
Joint Institute for Nuclear Research
Institute of Informatics Problems of RAS
Moscow ACM SIGMOD Chapter

XVI All-Russian Scientific Conference RCDL'2014 "Digital libraries: Advanced Methods and Technologies, Digital Collections"

Dubna, October 13–16, 2014
http://rcdl2014.jinr.ru

The First Call for Papers

Digital Libraries are a subject of research and development aiming to create the theory and practice to process, collect, spread, store, search and analyze digital objects of different kinds. These modern repositories of knowledge are complicated online information systems, the creation and usage of which requires solution of numerous scientific, technological, methodological, economical, legal and other problems. Alongside with usual for conventional libraries textual and multimedia digital collections, the Digital Libraries systems include structured data and a variety of other digital information objects of different origin as well as their metadata. It requires many promising technologies used in modern information systems to address management issues by so diverse information resources, to meet the growing diversity of the needs of users as well as to respond new other challenges. Such technologies are developing in the area of Semantic Web and in sciences with intensive use of data because of the necessity to store and analyze Big Data, to maintain interoperability of systems, parallel data processing, integration of heterogeneous information resources and extremely rapid increase of their volume. The Digital Libraries issues focus primarily on innovation technologies which provide the handling of information resources with rich semantics.

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 on digital preservation of information about the Earth, Universe, Science, Literature, Art, Environment and Man accumulated by humanity 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 Digital Libraries community of scientists. The conferences held in the cities of St. Petersburg, Protvino, Dubna, Petrozavodsk, Pushchino, Yaroslavl, Suzdal, Pereslavl, Kazan and Voronezh and attended by a lot of scientists from leading Russian and foreign research centers from Austria, Germany, Greece, Italy, New Zealand, USA, Ukraine and other countries.

RCDL-2014 Conference Topics
- Advanced projects for information systems in science
- Big Data technologies
- Composition presentation of the content including multimedia, geographic, statistical and other data
- Crowdsourcing
- Data analysis in social networks
- Data-intensive applications in cloud and GRID infrastructures
- Data intensive systems infrastructures
- Data mining, knowledge discovery
- Data models: structured, semi-structured, graph, multidimensional and others
- Data storage and indexing
- Digital curation, preservation, and archiving; data provenance
- Digital Library models, architectures and infrastructures
- Digital resource quality, quality metrics, data cleansing
- Information security
- Integration, interoperability and mashups of heterogeneous information resources (structured, semi-structured, unstructured)
- Integration of publishing systems and digital libraries
- Metadata, ontologies, conceptual modeling
- Models and tools for massive data parallel analysis
- Perspective projects of Digital Libraries in science and other spheres: approach, technologies and implementation experience
- Retrieval and analysis of textual and multimedia information
- Scientometrics in digital libraries
- Semantic aware services; context awareness of services at the information access
- Semantic structuring of the Digital Libraries content
- Semantic Web, Linked Data, Web of Data
- Social media and dynamically generated content
- Technology standards for Digital Libraries
- Tools for development of digital libraries and digital collections
- Virtual environments for research, collaborative information environments
- User modeling, user interfaces, and personalization; recommender systems

Publication of the Proceedings
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 in the European repository of the CEUR Workshop Proceedings, to provide for better visibility of RCDL-2014 publications for the international scientific community. In addition, the best reports of the Conference will be recommended for publication (in revised version) in the editions included into the list of VAK.

PhD Workshop
The traditional workshop "Doctoral Research on Information Technologies Related with Digital Libraries" is going to be held during the Conference. Those authors whose submissions have been selected during preliminary reviewing will be given a possibility to present the results of their current research and discuss their strong and weak points of their results with more experienced colleagues. Selected papers will be published in the Conference proceedings. The best papers also will be published in CEUR Workshop Proceedings and will be recommended for publication in journals included in the list of VAK. The chair of the Workshop Program Committee is Alexander Elizarov. An information letter about the PhD Workshop will be distributed in the near future.

Dates and Venue
The Conference will be held from 13 to 16 October 2014 in the town of Dubna (Russia), in the Laboratory of Information Technologies (LIT) of the Joint Institute for Nuclear Research (JINR).
Dubna is a quiet and pleasant town 130 km north of Moscow on the picturesque banks of the Volga river. There is a railway and bus communication between Dubna and Moscow. Detailed information about Dubna can be found at http://www.dubna-oez.ru/eng/.

Submission and presentation
Working languages are Russian and English. Extended abstracts and papers can be in any of them. The Program Committee expects the *original* papers, not published earlier and having a *research orientation*. It is strongly recommended that the languages of the paper and presentation were different, it helps to follow the thread of speech to both Russian and foreign participants.

Extended abstracts of no less than 2000 words should be submitted in PDF or RTF formats to the Program Committee through the website of the Conference. Abstracts should provide a fairly complete picture of the paper content, include a list of references and/or links to Internet resources. The authors of extended abstracts must specify to which Conference scope topics their work is referred. Several suitable areas listed above in the conference topics can be specified simultaneously.

The selection of papers to the Conference is made according to the results of the extended abstracts independent reviewing by three members of the Program Committee. The Program Committee can accept work for presentation as a full report, short message or a poster. The accepted papers should be arranged for publication in the Conference proceedings in compliance with the rules given on the Conference website and submitted to the Program Committee in due time.

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.

Program committee

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Important dates

May 15, 2014 — the submission deadline for extended abstracts, at least 2000 words including references, in **Russian or English**.

May 20, 2014 — the deadline for applications of tutorials and co-located workshops.

June 15, 2014 — before this date the authors will be notified on the status of their submissions (accepted / rejected).

August 1, 2014 — the deadline for camera-ready versions of the accepted papers.