Call for Contributions

Submission:
1. Inform the Chair: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event= GraphSM+2018
Please select Track Preference as **GraphSM**

Special track

GraphSM 2018: Large-scale Graph Analysis, Management and Applications

Chairs and Coordinators:

Andreas Schmidt, Karlsruhe Institute of Technology / University of Applied Sciences Karlsruhe, Germany
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along with

DBKDA 2018, The Tenth International Conference on Advances in Databases, Knowledge, and Data Applications

May 20, 2018 to May 24, 2018 - Nice, France
http://www.iaria.org/conferences2018/DBKDA18.html

There exists a growing interest to gather, store and query data from various aspects of human knowledge including geographical data; data about various aspects of human activities like music, literature, and sport; scientific data from biology, chemistry, astronomy and other scientific fields; as well as data presenting the activities of governments and other important institutions.

There is consensus that data should be presented in some form of graph data model where simple and natural abstractions are used to represent data as subjects and their properties described by objects, that is, by means of nodes and edges of a graph.

A number of practical projects that allow for gathering and storing graph data have been started. One of the most famous examples is Linked Open Data (LOD) project that gathered more than 32 giga triples from the areas such as media, geography, government, life sciences and others. The language employed for the representation of data is Resource Description Framework (RDF) which is a form of graph data model.

Storing and managing huge amounts of structured data represents a problem that could be compared to the problem of querying huge amounts of text that appeared after the advent of Internet. The differences are in the degree of structure and semantics that data formats such as RDF and OWL encompass comparing them to HTML.

   Prospective authors are invited to submit original papers on topics including, but not limited to:

THEORY
Search in graph databases

Algebra and logic of graphs
Expressive power of graph query languages
Formalizations of graph databases

DATA MODELLING
Graph data modelling
Advanced graph data models
Data modelling for specific graph applications

STORAGE MANAGERS
Indexing methods for graph processing
Storage systems for large-scale graph databases
Automatic distribution and replication of graph databases
Storage managers for specific graph applications

QUERY PROCESSING
Flexible query answering on graph-structured data
Query processing
Intelligent distribution of query processing
Using map-reduce operations for graph processing

ANALYSIS AND MANAGEMENT
Graph pattern matching
Knowledge discovery from graphs
Algorithms for graph database processing
Analysis of graph databases from specific domains
Information retrieval on graph-structured data

APPLICATIONS
Biological and medical graph databases
Graph processing for Social Networks
Visualizing, browsing and navigating graph data
User-interfaces for graph databases

Important Datelines

- Inform the Chairs: As soon as you decided to contribute
- Submission: ~~February 7, 2018~~ March 28, 2018
- Notification: ~~March 7, 2018~~ April 5, 2018
- Registration: ~~March 21, 2018~~ April 10, 2018
- Camera ready: ~~April 2, 2018~~ April 20, 2018

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]

- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

GraphSM Chairs

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Andreas Schmidt, Karlsruhe Institute of Technology / University of Applied Sciences Karlsruhe, Germany

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Registration
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.

- Registration fees are available at http://www.iaria.org/registration.html

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