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=ICSEA+2017+Special
Please select Track Preference as **DDSEL**

Special track

DDSEL: Data-driven Enhancement of the Software Engineering Lifecycle

Chair and Coordinator

Themistoklis Diamantopoulos, PhD Candidate \ Research Associate, Aristotle University of Thessaloniki, Greece
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along with
ICSEA 2017, The Twelfth International Conference on Software Engineering Advances
October 8 - 12, 2017 - Athens, Greece
http://www.iaria.org/conferences2017/ICSEA17.html

The continuously increasing need for software applications in different domains, and the introduction of online open-source repositories during the latest years have led to the establishment of an agile, component-based software engineering paradigm. As such, new challenges arise in all phases of the software engineering lifecycle, including requirements elicitation and specifications extraction, software design and implementation, and software quality/maintenance.

Meanwhile, the evolution of the Internet and the open-source initiative have established new ways of confronting these challenges, by using the vast software engineering data available online, which can be extracted in various formats that include source code and documentation, information from version control systems (e.g. commits, issues), software metrics, software requirements, web service descriptors, etc. Harnessing these data can lead to effective decision-making in the requirements and specifications phases, further support software development through component-based reuse, and facilitate software quality assessment. Consequently, the time and effort required for software development and maintenance is reduced, resulting in lower costs and higher quality software products.

This special track will present research on facilitating the software development process using data from various sources. We hope to provide a vibrant forum for exchanging ideas, methodologies, and insights into data-driven solutions for enhancing the software engineering lifecycle.

Topics include, but not limited to:

- Requirements Engineering
  - o Data Mining for Requirements Elicitation
  - o Specifications Extraction
- Design and Implementation
  - o Component-based Reuse
  - o Reverse Engineering and Program Comprehension

- Software Quality and Maintenance
  - Software Metrics and Software Process Improvement
  - Program Analysis and Testing

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: August 31
- Notification: September 7
- Registration: September 14
- Camera ready: September 14

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

Paper Submission
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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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