

SETTA 2017

Symposium on Dependable Software Engineering: Theories, Tools and Applications

October 23-25, 2017, Changsha, China
setta2017@ios.ac.cn, <http://lcs.ios.ac.cn/setta2017/>

Important Dates

- ▶ **Abstract & paper submission (Extended):** June 21, 2017 (AoE)
- ▶ **Notification to authors (Extended):** July 25, 2017 (AoE)
- ▶ **Camera ready version (Extended):** August 10, 2017 (AoE)
- ▶ **Conference date:** October 23-25, 2017

Scope

The aim of the symposium is to bring together international researchers and practitioners in the field of software technology. Its focus is on formal methods and advanced software technologies, especially for engineering complex, large-scale artifacts like cyber-physical systems, networks of things, enterprise systems, or cloud-based services. Contributions relating to formal methods or integrating them with software engineering, as well as papers advancing scalability or widening the scope of rigorous methods to new design goals are especially welcome. SETTA 2017 is planning to organize a special thematic section, namely *Dependability of Smart Cyber-Physical Systems*.

Topics of interest include, but are not limited to:

- ▶ Requirements specification and analysis
- ▶ Formalisms for modeling, design and implementation
- ▶ Model checking, theorem proving, and decision procedures
- ▶ Scalable approaches to formal system analysis
- ▶ Formal approaches to simulation and testing
- ▶ Integration of formal methods into software engineering practice
- ▶ Contract-based engineering of components, systems, and systems of systems
- ▶ Formal and engineering aspects of software evolution and maintenance
- ▶ Parallel and multi-core programming
- ▶ Embedded, real-time, hybrid, and cyber-physical systems
- ▶ Mixed-critical applications and systems
- ▶ Formal aspects of service-oriented and cloud computing
- ▶ Safety, security, reliability, robustness, and fault-tolerance
- ▶ Dependability of smart software and systems
- ▶ Empirical analysis techniques and integration with formal methods
- ▶ Applications and industrial experience reports
- ▶ Tool integration

Paper Submission

Authors are invited to submit papers on original research, industrial applications, or position papers proposing challenges in fundamental research and technology. The latter two types of submissions are expected to contribute to the development of formal methods either by substantiating the advantages of integrating formal methods into the development cycle or through delineating need for research by demonstrating weaknesses of existing technologies, especially when addressing new application domains. Springer will support **best paper awards** of SETTA 2017. Submissions can take the form of either regular or short papers. Short papers can discuss ongoing research at an early stage, including PhD projects. Papers should be written in English. Regular Papers should not exceed 16 pages and Short Papers should not exceed 6 pages in LNCS format. The proceedings will be published as a volume in Springer's LNCS series, www.springer.com/lncs. The authors of a selected subset of accepted papers will be invited to submit extended versions of their papers to appear in a special issue of Elsevier's Science of Computer Programming. The submission webpage is <https://easychair.org/conferences/?conf=setta2017>

Keynotes

Cliff Jones, Newcastle University, UK
Rupak Majumdar, Max Planck Institute for Software Systems, Germany
Sanjit Seshia, University of California, Berkeley, USA

Organizers

General chair:

Xiangke Liao, NUDT, China

Program Chairs:

Kim G. Larsen, Aalborg University, Denmark

Oleg Sokolsky, University of Pennsylvania, USA

Ji Wang, NUDT, China

Publicity Chair:

Fu Song, ShanghaiTech University, China

Local Organization Chair:

Wei Dong, NUDT, China

PC Members

Erika Abraham, RWTH Aachen University, Germany
Farhad Arbab, CWI and Leiden University, Netherlands
Sanjoy Baruah, University of North Carolina, USA
Michael Butler, University of Southampton, UK
Yunxin Deng, ECNU, China
Deepak D'Souza, Indian Institute of Science, India
Xinyu Feng, University of Science and Technology of China, China
Martin Fränzle, University of Oldenburg, Germany
Goran Frehse, University of Grenoble Alpes-Laboratoire Verimag, France
Lindsay Groves, University of Wellington, New Zealand
Dimitar Guelev, Bulgarian Academy of Sciences, Bulgaria
Fei He, Tsinghua University, China
Deepak Kapur, University of New Mexico, USA
Kim Larsen, University of Aalborg, Denmark
Axel Legay, IRISA/INRIA, France
Xuandong Li, Nanjing University, China
Shaoying Liu, Hosei University, Japan
Zhiming Liu, Southwest University, China
Xiaoguang Mao, NUDT, China
Markus Müller-Olm, Westfälische Wilhelms-Universität Münster, Germany
Raja Natarajan, TIFR, India
Jun Pang, University of Luxembourg, Luxembourg
Shengchao Qin, Teesside University, UK
Stefan Ratschan, Czech Academy of Sciences, Czech
Sriram Sankaranarayanan, University of Colorado, USA
Oleg Sokolsky, University of Pennsylvania, USA
Martin Steffen, University of Oslo, Norway
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Cong Tian, Xidian University, China
Tarmo Uustalu, Tallinn University of Technology, Estonia
Chao Wang, University of Southern California, USA
Farn Wang, National Taiwan University, TW, China
Ji Wang, NUDT, China.
Heike Wehrheim, University of Paderborn, Germany
Michael Whalen, University of Minnesota, USA
Wang Yi, Uppsala University, Sweden
Naijun Zhan, ISCAS, China
Lijun Zhang, ISCAS, China
Qirun Zhang, UC Davis, USA
Haibo Zeng, Virginia Tech University, USA