

TIPS Workshop

3rd International workshop on Timing Performance engineering for Safety critical systems

3 or 8 September 2018, Beijing, China

Important Dates

Submission deadline:	11 May, 2018
Notification of acceptance:	08 June, 2018
Final version papers:	29 June, 2018
TIPS'18 Workshop:	3 or 8 September, 2018

Web: <http://www.es.ele.tue.nl/tips18>

Organizers Committee

Laurent Rioux	<i>Thales R&T, France</i>
Marc Geilen	<i>TU Eindhoven, The Netherlands</i>

Program Committee Chairs

Chokri Mraidha	CEA, France
Julio Medina	Univ. of Cantabria, Spain

Program Committee (to be confirmed)

Liliana Cucu-Grosjean	INRIA – France
Zain A. H. Hammadeh	TU Braunschweig – Germany
Huascar Espinoza	Tecnalia – Spain
Loic Frejoz	Realtime@work – France
Bran Selic	Malina Software Corp. – Canada
José Merseguer	Univ. de Zaragoza – Spain
Rafik Henia	THALES – France
Bernhard Schatz	Fortiss – Germany
De-Jiu Chen	KTH - Sweden
Dorina C. Petriu	Carleton University - Canada
Yiannis Papadopoulos	University of Hull – UK
Emmanuel Grolleau	ENSMA - France

(Complete list of PC members on the workshop website)

Submission Guidelines

Papers must describe, in English, original work that has not been published or submitted elsewhere. Each paper will be reviewed by at least 3 PC members. We solicit three types of submissions:

- Regular papers (up to 15 pages) describing original and unpublished work within the scope of the workshop.
- Short papers (up to 6 pages) describing less mature results or preliminary results.
- Position papers or extended abstracts (up to 2 pages) for reports on research projects, industrial experiences or challenges, innovative ideas, and work in progress.
- Demo papers describing demonstrations to show achieved results or the application of new techniques or tools.

Please keep your paper format according to SPRINGER LNCS style guidelines (<http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>) (use Microsoft Word or PDF format if possible).

All papers should be submitted through EasyChair:

<https://easychair.org/conferences/?conf=tips18>

Goals

The purpose of the TIPS Workshop is to provide a forum for both practitioners and researchers to present contributions and share ideas, experiences and solutions to concretely connect or integrate performance design engineering and safety engineering activities. Industrial participants are invited to report on efforts applying timing and performance verification techniques in their context of safety or certification, share their insights, and to provide feedback to research priorities and roadmaps. This workshop will also encourage discussions about issues and opportunities to apply timing performance and safety co-engineering.

The TIPS workshop aims to promote discussions, close interactions, cross fertilization of ideas and synergies across the breadth of the timing performance and safety (and security) research communities, as well as to attract industrials from different domains with specific interest in timing performance and safety engineering.

Topics

Topics include but are not limited to:

- Comparative evaluation of existing integrated timing performance and safety assessment or verification techniques.
- Design modelling languages, methods, techniques and processes for timing performance and safety engineering and combining them.
- New ways for timing performance certification.
- Design architecture evaluation approaches considering timing and safety concerns, including architecture optimizations.
- Performance patterns or solutions for efficient safety and security design.
- Performance predictability for multi-core platforms under safety concerns.
- Virtualization techniques for safe and efficient resource sharing.
- Case studies and industrial experience on integrating applications combining, timing performance and safety engineering activities and certification.
- Discussions on issues and opportunities to integrate, combined timing performance and safety engineering, certifications standards, rules, and authorities.
- Demonstrations of techniques or tools to apply timing performance in safety or certification processes.

Reports doing dissemination of collaborative (European, National etc.) research projects results, as well as industrial experience reports from work in progress are welcome.

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