

Preliminary Call for Papers

<http://rtns17.org>



25th International Conference on Real-Time Networks and Systems

October 4-6, 2017, Grenoble, France

Program Chairs

Enrico Bini (University of Turin, IT)

Claire Pagetti (ONERA/ENSEEIH/TUHH)

General chairs

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(Grenoble INP)

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(University of Grenoble Alpes)

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Rob Davis

Sébastien Faucou

Laurent George

Joël Goossens (chair)

Isabelle Puaut

Pascal Richard

Jean-Luc Scharbag

IMPORTANT DATES

Paper submission:

July 17, 2017

Notification:

September 01, 2017

Early registration:

September 10, 2017

Camera-ready:

September 25, 2017

RTNS is a friendly and inclusive conference with a great sense of community that presents excellent opportunities for collaboration. Original unpublished papers on all aspects of real-time systems and networks are welcome. RTNS covers a wide-spectrum of topics in real-time and embedded systems, including, but not limited to:

- **Applications:** automotive, avionics, space, railways, telecommunications, process control, multimedia, cyber-physical systems.
- **Software technologies for real-time systems:** compilers, programming languages, middleware, RTOS, hypervisors, real-time databases.
- **Real-time system design and analysis:** models of real-time tasks, task/message scheduling, evaluation, mixed-criticality systems, model-driven development, WCET estimation, distributed systems, quality of service, security, co-design.
- **Formal specification and verification:** application of formal models, such as model checking, SMT or constraint programming, to solve real-time problems
- **Real-time distributed systems:** fault tolerance, time synchronization, task/messages allocation
- **Networks:** network/real-time calculus, wired and wireless communication networks, fieldbuses, networked control systems, sensor networks, NoC
- **Hardware support for real-time systems:** power/temperature-aware techniques, heterogeneous multi-core platform, HW accelerators.

The 11th Junior Researcher Workshop on Real-Time Computing is organized jointly with RTNS.

SUBMISSION OF PAPERS

The papers are limited to 10 two-column pages in a font no smaller than 10 points. The proceedings will be published by the ACM ICPS (approval pending). A selection of the best papers will be identified as outstanding papers; the authors of these papers will be invited to submit extended versions to a **special issue** of the Springer Real-Time Systems journal. RTNS 2017 will have the **artifact evaluation** for the accepted papers, to guarantee the availability of source code and data to replicate the experiments.

CONFERENCE LOCATION

The conference will be located in Grenoble, at the heart of French Alps. Grenoble is situated in a large valley, at the confluence of rivers Drac and Isere, surrounded by the mountain heights of Belledonne, Chartreuse and Vercors. Grenoble is an Olympic city (winter 1968), and a perfect base camp to discover the mountains: winter sports resorts are less than one hour, drive away from the city. Grenoble is also a main scientific and academic place, with more than 60 000 students and 25 000 researchers. Grenoble is easily reached by plane (one hour from Lyon Saint Exupéry airport) or by train (e.g. three hours from Paris). We hope to see you in Grenoble in October 2017 to enjoy the conference and the social event that will show you a wonderful view of the city.

