

RTNS 2019

Submitted by Anonymous on Mon, 02/18/2019 - 3:23pm

[Nov 06, 2019 7:00 am - Nov 08, 2019 6:15 pm CET](#)

27th International Conference on Real-Time Networks and Systems (RTNS 2019)

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 Original unpublished papers on all aspects of real-time systems and networks are welcome.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.

RTNS 2019 is the 27th edition of the conference formerly known as RTS (Real-Time Systems, Paris). The first 12 editions of RTS were french-speaking events held in Paris in conjunction with the RTS Embedded System exhibition. Since its 13th edition, the conference language of RTNS has been English.

The 13th Junior Researcher Workshop on Real-Time Computing (JWRTC) is organized jointly with RTNS.

Contact

For questions concerning RTNS 2019, send an email to: rtns19@listes-diff.enseeiht.fr.

Conference aims and topics

RTNS covers a wide-spectrum of topics in real-time and embedded systems, including, but not limited to:

- Real-time applications design and evaluation: automotive, avionics, space, railways, telecommunications, process control, multimedia.
- Real-time aspects of emerging smart systems: cyber-physical systems and emerging applications, real-time big data, real-time edge/fog and cloud computing, smart grid.
- Real-time system design and analysis: real-time tasks modeling, task/message scheduling, evaluation, mixed-criticality systems, Worst-Case Execution Time (WCET) analysis, quality of service, security.
- Software technologies for real-time systems: model-driven engineering, programming languages, compilers, WCET-aware compilation and parallelization strategies, middleware, Real-time Operating Systems (RTOS), virtualization, hypervisors.
- Formal specification and verification: application of formal models, such as model checking, satisfiability modulo theories or constraint programming, to solve real-time problems.

- Real-time distributed systems: fault tolerance, time synchronization, task/messages allocation, adaptability and reconfiguration, publisher/subscriber protocols, distributed real-time database.
- Hardware support for real-time systems: hardware/software co-design, power/temperature-aware techniques, design of predictable hardware, multi-core and many-core platforms, hardware accelerators, cache related issues, interconnect and memory.

Event Details

Location: Toulouse, France

URL: <https://www.irit.fr/rtns2019/>

[Sync this event to your calendar](#)



[Concurrency and Timing Real-time Systems Systems Engineering Real-Time Coordination CPS Technologies Foundations 2019 Conference](#)
