RTN 2019

17TH INTERNATIONAL WORKSHOP ON REAL-TIME NETWORKS

JULY 9, 2019 - STUTTGART, GERMANY

https://www.ecrts.org/rtn

CALL FOR PAPERS

PRESENTATION

The *Real-Time Networks* (RTN) is a satellite workshop of the 31st *Euromicro Conference on Real-Time Systems* (ECRTS), the premier European venue for presenting research into the broad area of real-time and embedded systems. RTN 2019 is the seventeenth in the series of workshops that started at the 2002 ECRTS conference. No edition took place in 2015.

IMPORTANT DATES

Submission Full-Papers:	**April 16, 2019**	Acceptance Notification:	May 14, 2019
Submission Abstracts:	April 16, 2019	Camera-ready Version:	May 29, 2019

WORKSHOP STRUCTURE

The RTN workshop provides a relaxed forum for industrial and academic participants to present and discuss new ideas, new research directions and to review current trends in the area of real-time networks and NoC. The program schedule provides significant time for discussions among the attendees.

NEW SINCE 2018: in addition to presentation sessions, a **collaborative session** will be setup to stimulate exchange between participants with different types of contributions, including demos, informal presentations, and posters.

All participants are encouraged to contribute and animate this session!

Authors of accepted papers will be given the option to publish them in a special edition of **ACM SIGBED Review** unless they choose to opt out in order to keep their work for a later submission to another conference or journal.

TOPICS

Areas of interest include, but are not limited to:

- Real-time aspects of networked embedded systems and sensors, cyber-physical systems, internet of things, fog computing
- Real-time applications (automotive, aerospace, multimedia, etc.):   implementation, experimentation and evaluation
- Real-time Software Defined Networks (SDN)
- Real-time message scheduling and mapping over off and on-chip networks (TSN, Ethernet, CAN, FlexRay, NoC, etc.)
- Performance evaluation, simulation and modeling tools of real-time networks (automotive, aerospace, multimedia, etc.)
- Real-time network management and time synchronization
- Real-time aspects of Wireless technologies and Sensor Networks (WSNs) and applications
- Real-time network on chips (NoC)

FOCUS OF THE 2019 EDITION

RTN 2019 focuses on new trends in real-time communications, including the application of **new Ethernet standards** like **TSN** in the area of **In-Car Communication**, Vehicular and Industrial **Fog Computing**, as well as the **Internet of Things**.

SUBMISSION INSTRUCTIONS

Following the success of previous editions, RTN 2019 is open to contributions in three different formats: *full papers*, *demos*, and *posters*.

FULL-PAPER SUBMISSION

The RTN workshop is seeking regular research paper or position paper that <u>should not exceed 6 pages</u>. Research papers should present original research results not published or submitted for publication in other forums. Authors of accepted papers agree to attend the workshop and to present their work during the workshop.

Papers submitted to the RTN workshop must be written in English, should conform to the ACM SIG Proceedings Style (https://www.acm.org/publications/proceedings-template-16dec2016) and must be submitted in PDF format using the RTN website submission link (https://easychair.org/conferences/?conf=rtn2019). Author names, affiliations and self-references should not be anonymized.

Accepted papers will be published in **ACM SIGBED Review** unless authors opt out in order to keep their work unpublished. By accepting that papers are published in the ACM SIGBED Review, authors give permission to publish and include the papers in ***ACM Digital Library***.

DEMO SUBMISSION

We highly encourage the submission of demos for presentation during the workshop collaborative session. Authors will have a slot for a short presentation to introduce the demo to the audience in addition to the necessary space to demonstrate and engage in discussions during the panel sessions.

Note: The content of a demo shall be of interest to the workshop's audience but must not necessarily be novel.

To submit a Demo, an abstract (limited to two pages) describing the topic and main details shall be submitted following the same procedure as for full-papers, indicating *Abstract* as the type of submission. The abstract title shall be preceded with the word "**DEMO-**".

POSTER SUBMISSION

Authors wishing to disseminate their work or ideas without a formal publication may submit a poster to the workshop. Posters will be introduced to the audience with a short presentation and exposed during the collaborative session.

The content of a poster shall be of interest to the workshop's audience and must have some degree of novelty. Incremental work on existing publications as well as, in particular, work-in-progress of novel ideas can be submitted.

To submit a Poster, an abstract (limited to two pages) shall be submitted following the same procedure as for full-papers, indicating *Abstract* as the type of submission. The abstract title shall be preceded with the word "**POSTER-**". Accepted posters will be displayed during the workshop.

ORGANIZATION

WORKSHOP CHAIRS

Guillermo Rodriguez-Navas, Nokia Bell-Labs, Israel

Ramon Serna Oliver, TTTech, Austria

PROGRAM COMMITTEE

Ahlem Mifdaoui, DISC, Univ. Toulouse, France

Borislav Nikolic, IDA/TU Braunschweig, Germany

Iñaki Val, IK4-IKERLAN, Spain

Jean-Luc Scharbarg, INP/ENSEEIHT, Univ. Toulouse, France

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