



## CALL FOR PAPERS AND EXHIBITION

upcoming : [www.erts2018.org](http://www.erts2018.org)

### ORGANISERS

- **3AF**, the Society for Aeronautics and Space
- **SEE**, the Society for Electricity, Electronics, and Information and Communication Technologies
- **SIA**, the Automotive Engineers Society

### GENERAL CHAIRS

- **Joseph Sifakis**, Turing Award 2007, Verimag Laboratory
- **Alexandre Corjon**, Alliance (Renault-Nissan) Global Vice President, Electrics, Electronics and Systems

**The ERTS<sup>2</sup> congress** created by the late Jean-Claude Laprie in 2002 is a unique European cross sector event on Embedded Software and Systems, a platform for top-level scientists with representatives from universities, research centres, agencies and industries. The previous editions gathered more than 100 talks, 500 participants and 60 exhibitors.

ERTS<sup>2</sup> is both:

- a conference with high level scientific and technical presentations,
- an exhibition forum covering a wide range of innovative products and services, for improving direct relationship between providers and users,
- a unique community spirit: knowledge sharing, unforgettable moments and networking opportunities.

The conference encourages submission of research contribution, research - industrial transfer, industrial feedbacks on new technologies and position papers on major trends.

The ninth edition targets all the domains where embedded systems are crucial, such as especially, but not limited to, transportation (aeronautics, automotive, railway, subway, marine, unmanned vehicle, satellite and space exploration), telecommunications and wireless connectivity, Internet of Things (IoT), Industrial control, Defence, e-healthcare and home automation. This edition focuses on publications bringing innovative ideas cross-fertilizing intelligent transportation and IoT.

## IMPORTANT DATES

### CALL FOR PAPERS

- Regular abstract and short paper submission (4 pages) **June 18<sup>th</sup>**, 2017
- Acceptance notification **Sept. 22<sup>nd</sup>**, 2017
- Regular paper for review (10 pages) **Oct. 27<sup>th</sup>**, 2017
- Final paper (Short and Regular) **Nov. 24<sup>th</sup>**, 2017
- Conference **Jan. 31<sup>st</sup> - Feb. 1<sup>st</sup> & 2<sup>nd</sup>**, 2018

### EXHIBITION SCHEDULE

- Information and registration **March 19<sup>th</sup> to Dec. 31<sup>st</sup>**, 2017
- Select your contact for meetings **Jan. 12<sup>th</sup> - 24<sup>th</sup>**, 2018
- Exhibition and B-to-B meeting **Jan. 31<sup>st</sup> - Feb. 1<sup>st</sup> & 2<sup>nd</sup>**, 2018

Join ERTS<sup>2</sup> for high quality papers and for high quality audience!

## CALL FOR PAPERS

Original, unpublished regular papers are solicited. Selection will be based firstly on the review of extended abstract (4 pages) followed by the review of the full paper (10 pages) for final acceptance. Accepted regular papers will be published in the proceedings and presented in an oral session at the conference (registration by at least one author is mandatory).

Short papers reporting on research work in progress are also solicited. Selection will be based on the review of the full short paper (4 pages). Each accepted short paper will be published in the proceedings and presented as poster at the conference (registration by at least one author is mandatory).

### Major domains of interest

- **Critical Transportation Systems:** Intelligent transportation system, Vehicle automation, Autonomous and connected systems (including all type of unmanned vehicle), Cyber physical systems, Innovative specific architectures (including back end and big data architecture), Mobile robotics, Cyber-security for mobile and back-end systems.
- **Internet of Things (IoT):** Smart devices, Smart grids, Smart buildings, Predictable networking infrastructure, Low power devices, New telecommunication interface, Specific architectures.
- **Digital Manufacturing:** Smart factory, Plant digitalization, Interoperability and integration of cyber physical systems, 3D printing, Machine-to-machine communication and architecture, Digital assistance and monitoring, Maintenance prediction.

### Major topics of interest

- **Embedded computing platforms and networked systems:** Distributed architectures, Multi-core/ many-core platforms, FPGA, Embedded network, Middleware, Virtualization, Service-oriented platforms, Energy-aware management.
- **Processes, methods and tools:** Agile techniques, Adaptive systems and Artificial intelligence, Model-based system engineering, Virtual engineering and simulation, Formal methods, Requirement engineering, Product line engineering, New programming and verification languages.
- **Dependability:** Safety, Security, Quality of service, Fault tolerance, Maintainability, Diagnostic generation, Monitoring, Certification.
- **Human System Interaction:** User interfaces for command and control systems, Human error evaluation, User-centred design, Automation design and Function allocation.

Submission guidelines on the upcoming web site <http://www.erts2018.org>

## EXHIBITION

The exhibition is the opportunity for companies to present their latest products; it will be combined with B to B meetings for improved direct relationship between exhibitors and contractors represented by R&D directors, technical directors and projects managers from all the industry sectors.

The exhibition and conference areas are situated under the same roof allowing attendees to visit booths during the congress.

Exhibition contact: [erts2018@advbe.com](mailto:erts2018@advbe.com)

## COMMITTEES

### Programme Committee

**Chair:** Joseph Sifakis, Turing Award 2007, Verimag Laboratory

**Coordinators:** Jean-Paul Blanquart (Airbus Defence and Space), Marc Boyer (Onera), Philippe Cuenot (Continental Automotive), Hervé Delseny (Airbus), Christophe Grand (Onera), Claire Pagetti (Onera)

*Programme Committee members are industrial and academic experts from more than ten countries. The list is available on the website.*

### Organising Committee

**Chairs:** Francis Guimera (3AF), Florent Christophe (SEE), Louis Claude Vrignaud (SIA)

*The list of the Organizing Committee members is available on the website*

### Exhibition

**Chair:** Xavier Sicard (ABE)

