



CALL FOR PAPERS AND EXHIBITIONS

www.erts2022.org

ORGANISERS

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

GENERAL CHAIR

- **Mohamed Kaâniche**, LAAS-CNRS Deputy Director, ANITI Deputy Scientific Director (Artificial & Natural Intelligence Toulouse Institute)

The ERTS congress is a unique biennial European cross-sector event on Embedded Real-Time Systems, a forum for top-level scientists with representatives from universities, research centres, industrial key players, and agencies addressing critical systems and applications. Traditionally, this event includes more than 80 talks, up to 500 participants and 60 exhibitors.

ERTS is:

- a congress 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 forum involving industry and academia to share knowledge and extend your personal network.

The congress targets all the domains where embedded systems are crucial, such as, but not limited to, transportation (aeronautics, automotive, railways, marine, unmanned vehicles,...), space exploration and satellite applications, e-healthcare, industry 4.0, defence, energy, telecoms. The congress welcomes submissions concerning academic and industrial research, practical experiences and use cases, feedbacks on new technologies, and position papers on challenges or major trends.

This edition encourages contributions bringing innovative cross-fertilising ideas for the development, deployment and operation of safe and secure intelligent systems, including software and hardware disciplines targeting the support of advanced autonomy. This includes topics related to the design, verification, assessment and certification of critical embedded systems and applications based on artificial intelligence and machine learning algorithms.

IMPORTANT DATES

CALL FOR PAPERS

- Regular paper abstract, short papers (4 pages) submission ~~Sept. 5th, 2021~~
Submission deadline extended to **Oct. 3rd, 2021**
- Acceptance notification **Nov. 18th, 2021**
- Regular paper for review (10 pages) **Jan. 9th, 2022**
- Final paper (Short and Regular) **Jan. 30th, 2022**
- Conference **June 1st - 2nd, 2022**

EXHIBITION SCHEDULE

- Information and registration **May 20th, 2021 to March. 10th, 2022**
- Select your contact for meetings **From March 11th, 2022**
- Exhibition and B2B meeting **June 1st - 2nd, 2022**

— Join ERTS for high quality papers and meeting a high quality audience! —

CALL FOR PAPERS

Original and unpublished submissions are solicited, which may be under two forms: Regular and Short papers.

- **Regular papers** presenting achieved results. The 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 congress (registration and presentation by one author are mandatory).
- **Short papers** reporting on work in progress. The 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 both as a poster and in a five-minute oral presentation at the congress (registration and presentation by one author are mandatory).

Submissions are expected in all aspects of critical embedded real-time systems, and notably on the following topics:

- **Embedded computing platforms and networked systems:** Distributed architectures, Edge computing, Multi-core/manycore platforms, Hardware accelerator, Embedded networks, Middleware, Virtualisation, Service-oriented platforms, Energy-aware management, Trusted execution platforms, Blockchains, Networks-on-chip, software-defined networks
- **Processes, methods and tools:** Agile techniques, AI based development methods, Model-based system engineering, Virtual engineering and simulation, Formal methods, Requirement engineering, Product line engineering, New programming and verification languages, new SDK approaches
- **Resilience:** Dependability, Safety, Cyber security, Quality of service, Fault tolerance, Maintainability, Diagnosis, Health monitoring, Certification, Privacy and data protection
- **Human system interaction:** User interfaces for command and control systems, Human monitoring and error evaluation, User-centred design, Automation design and function allocation
- **Autonomous and connected systems:** Adaptive systems, Dependable and trustworthy artificial intelligence, Robotics, Drones, Internet of Things (IoT), Intelligent systems, assured autonomy, Acceptability, Ethical and legal issues

Submission guidelines on the web site <http://www.erts2022.org>.

EXHIBITION - JUNE, 1st - 2nd, 2022

The exhibition is the opportunity for companies to present their latest products; it will be combined with B2B 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 congress areas are situated under the same roof allowing attendees to visit booths during the congress.

Exhibition contact : abe-advanced business events
Xavier SICARD / +33 1 41 86 41 10 / xsicard@advbe.com

COMMITTEES

Programme Committee

Chair: **Mohamed Kaâniche**, LAAS -CNRS Deputy Director, ANITI Deputy Scientific Director (Artificial & Natural Intelligence Toulouse Institute),

Coordinators: **Philippe Cuenot** (Continental Automotive), **Kevin Delmas** (Onera), **Marie de Roquemaurel** (Airbus Defence & Space), **Jean-Marc Gabriel** (Renault Software Labs), **Adrien Gauffriau** (Airbus), **Christophe Grand** (Onera), **Eric Jenn** (Thales Avionics and IRT Saint Exupéry), **Benoit Morgan** (IRIT)

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

Organising Committee

Chairs: **Francis Guimera** (3AF), **Dominique Mary** (SEE)

The list of the Organising Committee members is available on the website

Exhibition Chair: **Xavier Sicard**, (ABE)



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