



**Conference and Exhibition**  
**22 – 26 March 2021**  
**Madrid Exposiciones y Eventos Urbanos (MEEU),**  
**Madrid, Spain**

## Call for Papers

### Scope of the Event

The 24<sup>th</sup> DATE conference and exhibition is the main European event bringing together designers and design automation users, researchers and vendors as well as specialists in hardware and software design, test and manufacturing of electronic circuits and systems. DATE puts strong emphasis on both technology and systems, covering ICs/SoCs, emerging technologies, embedded systems and embedded software.

### Structure of the Event

The five-day event consists of a conference with plenary invited papers, regular papers, panels, hot-topic sessions, tutorials, workshops, special focus days and a track for executives. The scientific conference is complemented by a commercial exhibition showing the state-of-the-art in design and test tools, methodologies, IP and design services, reconfigurable and other hardware platforms, embedded software and (industrial) design experiences from different application domains, such as automotive, wireless, telecom and multimedia applications. The organisation of user group meetings, fringe meetings, a university booth, a PhD forum, vendor presentations and social events offers a wide variety of extra opportunities to meet and exchange information on relevant issues for the design automation, design and test communities. Special space will also be allocated for EU-funded projects to show their results.

More details are available on the DATE website: [www.date-conference.com](http://www.date-conference.com).

### Areas of Interest

Within the scope of the conference, the main areas of interest are: design automation, design tools and hardware architectures for electronic and embedded systems; test and dependability at system, chip, circuit and device level for analogue and digital electronics; modelling, analysis, design and deployment of embedded software and cyber-physical systems; application design and industrial design experiences.

Topics of interest include, but are not restricted to:

- System Specification and Modelling
- System-level Design Methodologies and High-Level Synthesis
- System Simulation and Validation
- Formal Methods and Verification
- Design and Test for Analogue and Mixed-Signal Circuits and Systems, and MEMS
- Design and Test of Secure Systems
- Network on Chip and Communication-Centric Design
- Architectural and Microarchitectural Design
- Low-power, Energy-efficient and Thermal-aware Design
- Approximate Computing
- Reconfigurable Systems
- Logical and Physical Analysis and Design
- Emerging Design Technologies for Future Computing
- Emerging Design Technologies for Future Memories
- Power-efficient and Sustainable Computing
- Robotics and Industry 4.0
- Automotive Systems and Smart Energy Systems
- Augmented Living and Personalized Healthcare
- Secure Systems, Circuits and Architectures
- Self-adaptive and Learning Systems
- Applications of Emerging Technologies
- Modelling and Mitigation of Defects, Faults, Variability and Reliability
- Test Generation, Test Architectures, Design for Test, and Diagnosis
- Microarchitecture-Level Dependability
- System-Level Dependability
- Real-time and Dependable Systems
- Embedded Systems for Deep Learning
- Model-based Design, Verification and Security for Embedded Systems
- Embedded Software Architectures, Compilers and Tool Chains
- Cyber-Physical Systems Design

### Submission of Papers

All papers have to be submitted electronically by Monday, 14 September 2020, as abstracts and by Monday, 21 September 2020 as full papers via:  
<https://www.date-conference.com/>

Papers can be submitted either for standard oral presentation or for interactive presentation.

*The Program Committee also encourages proposals for Special Sessions, Tutorials, Friday Workshops, University Booth Demonstrations, PhD Forum and Exhibition Theatre.*

### Chairs

*General Chair:*

Franco Fummi, Università di Verona, IT  
E-mail: [franco.fummi@univr.it](mailto:franco.fummi@univr.it)

*Programme Chair:*

Ian O'Connor, University of Lyon, FR  
E-mail: [ian.oconnor@ec-lyon.fr](mailto:ian.oconnor@ec-lyon.fr)

### Conference Organization

c/o K.I.T. Group GmbH Dresden  
Bautzner Str. 117–119, 01099 Dresden, DE  
Phone: +49 351 65573-137  
E-mail: [date@kitdresden.de](mailto:date@kitdresden.de)