



# 25<sup>th</sup> Ada-Europe

## INTERNATIONAL CONFERENCE ON RELIABLE SOFTWARE TECHNOLOGIES AEiC 2021 7-10 June 2021, Virtual Event

The 25th Ada-Europe International Conference on Reliable Software Technologies (AEiC 2021), initially scheduled to take place in Santander, Spain, will be held online from the 7<sup>th</sup> to the 10<sup>th</sup> of June 2021, using the [underline.io](https://underline.io) conference platform. The conference program includes parallel tutorials on Monday 7<sup>th</sup>, and a technical program and vendor exhibition from Tuesday to Thursday. The conference also includes breaks and virtual social events that will allow networking among the participants.

### OVERVIEW OF THE WEEK

Monday 7 <sup>th</sup>	Tuesday 8 <sup>th</sup>	Wednesday 9 <sup>th</sup>	Thursday 10 <sup>th</sup>
Welcome Social Event	Ice-Breaking Social Event and Opening	Welcome Social Event	Welcome Social Event
5 Parallel Tutorials	Technical Session 1: <i>Scheduling and mixed-criticality systems</i>	Technical Session 3: <i>Autonomous systems</i>	Technical Session 5: <i>Validation and verification tools</i>
	Keynote 1	Work-in-Progress Session	Technical Session 6: <i>Emerging applications with reliability requirements</i>
	Technical Session 2: <i>Software modeling</i>	Keynote 2	Keynote 3
	Social Event	Technical Session 4: <i>Ada issues and Ravenscar</i>	Technical Session 7: <i>Safety challenges</i>
		Ice-Breaking Social Event	Social Event

The program runs between 12:30 and 18:30 CEST, to allow participation from different time zones. For full details and up-to-date information, see the conference web page: <http://www.ada-europe.org/conference2021>

### KEYNOTE TALKS

In each of the three main conference days, a keynote will be delivered to address hot topics of relevance in the conference scope, with ample time for questions and answers. The keynotes will be:

- Ángel Conde, Data Analytics and Artificial Intelligence team leader at IKERLAN (Spain), who will present his work on *Software reliability in the Big Data era with an industry-minded focus*.
- Alfons Crespo, who is with the Institute of Automation and Industrial Informatics of the Universitat Politècnica de València (Spain), will give an answer to the question *Why a hypervisor-based approach is the best alternative for mixed-criticality systems*.
- Tucker Taft, who is Director of Language Research at AdaCore (USA), will talk on *A sampling of Ada 2022*.

## TECHNICAL SESSIONS

Given the current sanitary situation and the need to resort to a virtual format for the conference, we will all experience the advantages and benefits of exploring new formats. The technical sessions are designed with the flipped-conference concept, where the audience can access the pre-recorded presentation materials in advance and the live sessions are devoted to short presentations of the highlights of each contribution, allowing ample time for questions and answers with the presenter. The recorded materials will also be available for some time after their sessions. The technical sessions include papers submitted to the journal track that are heading towards final acceptance and open-access publication, together with industrial, invited and vendor presentations.

## WORK-IN-PROGRESS SESSION

The Work-in-Progress session contains contributions of evolving and early-stage ideas, or new research directions. They are presented in a special session consisting of a round of very short presentations of the highlights of each contribution, followed by a poster session in the same virtual space where the breaks are held.

## EXHIBITION

From Tuesday to Thursday the conference platform will provide access to virtual booths where participants will be able to find information on the conference exhibitors and chat with them or request meetings. The virtual break lounge where the breaks and social events will take place will also have a space for meeting with the exhibitors.

## TUTORIALS

Five four-hour parallel tutorials are offered on Monday 7th:

- TU-1: *Programming mobile robots with ROS2 and the RCLAda Ada client library*, by Alejandro R. Mosteo
- TU-2: *Introduction to the development of safety critical software*, by Jean-Pierre Rosen
- TU-3: *Parallel programming with Ada and OpenMP*, by Sara Royuela, S. Tucker Taft and Luis Miguel Pinho
- TU-4: *Timing verification from UML & MARTE design models: techniques & tools*, by Laurent Rioux, Julio Medina and Shuai Li
- TU-5: *Programming shared memory computers*, by Jan Verschelde

## SOCIAL PROGRAM

The virtual conference platform will offer a space under the [gather.town](#) environment to allow informal and lively gathering of the participants. This space may have different areas, such as rooms, tables, and corners where a participant can approach to talk though videoconferencing with participants in the same virtual area. This facility will be used for the breaks, poster session, exhibition and social events. Particular themes for some of the social events will be announced in the conference platform and in the web page.

## FURTHER INFORMATION

Participation for the full event, including tutorials, is free for Ada-Europe members and only 60€ for all others. Registration is required for all. The conference web page gives full and up-to-date details on the program, the registration process and the virtual platform: <http://www.ada-europe.org/conference2021>

## AEIC 2021 SPONSORS

AdaCore

★ Ellidiss  
★ Technologies

PTC® Developer Tools



VECTOR >

The conference is supported and sponsored by Ada-Europe, in cooperation with SIGAda, SIGPLAN, SIGBED and with ARA.

