Call for Papers
20th International Conference on Reliable Software Technologies — Ada-Europe 2015
22–26 June 2015, Madrid, Spain

http://www.ada—europe.org/conference2015

Conference Chair

Alejandro Alonso
Universidad Politécnica de Madrid
aalonso@dit.upm.es

Program co-Chairs

Juan A. de la Puente
Universidad Politécnica de Madrid
jpuente@dit.upm.es

Tullio Vardanega
Università di Padova
tullio.vardanega@unipd.it

Tutorial Chair

Jorge Real
Universitat Politècnica de València
jorge@disca.upv.es

Exhibition Chair

Santiago Urueña
GMV
suruena@gmv.com

Industrial co-Chairs

Jørgen Bundgaard
Rambøll Danmark A/S
jogb@ramboll.dk

Ana Rodríguez
Silver Atena
ana.rodriguez@silver-atena.es

Publicity Chair

Dirk Craeynest
Ada-Belgium & KU Leuven
Dirk.Craeynest@cs.kuleuven.be

Local Chair

Juan Zamorano
Universidad Politécnica de Madrid
jzamora@fi.upm.es

"In cooperation" with ACM SIGAda, SIGBED, SIGPLAN, and with ARA

General Information

The 20th International Conference on Reliable Software Technologies – Ada-Europe 2015 will take place in Madrid, Spain. Following its traditional style, the conference will span a full week, including a three-day technical program and vendor exhibition from Tuesday to Thursday, along with parallel tutorials and workshops on Monday and Friday.

Schedule

11 January 2015	Submission of regular papers, tutorial and workshop proposals
25 January 2015	Submission of industrial presentation proposals
1 March 2015	Notification of acceptance to all authors
29 March 2015	Camera-ready version of regular papers required
12 April 2015	Industrial presentation abstracts required
17 May 2015	Tutorial and workshop materials required

Topics

The conference has over the years become a leading international forum for providers, practitioners and researchers in reliable software technologies. The conference presentations will illustrate current work in the theory and practice of the design, development and maintenance of long-lived, high-quality software systems for a challenging variety of application domains. The program will allow ample time for keynotes, Q&A sessions and discussions, and social events. Participants include practitioners and researchers representing industry, academia and government organizations active in the promotion and development of reliable software technologies.

Topics of interest to this edition of the conference include but are not limited to:

- **Multicore and Manycore Programming**: Predictable Programming Approaches for Multicore and Manycore Systems, Parallel Programming Models, Scheduling Analysis Techniques.
- **Real-Time and Embedded Systems**: Real-Time Scheduling, Design Methods and Techniques, Architecture Modelling, HW/SW Co-Design, Reliability and Performance Analysis.
- **Mixed-Criticality Systems:** Scheduling methods, Mixed-Criticality Architectures, Design Methods, Analysis Methods.
- **Theory and Practice of High-Integrity Systems**: Medium to Large-Scale Distribution, Fault Tolerance, Security, Reliability, Trust and Safety, Languages Vulnerabilities.
- **Software Architectures**: Design Patterns, Frameworks, Architecture-Centered Development, Component-based Design and Development.
- **Methods and Techniques for Software Development and Maintenance**: Requirements Engineering, Model-driven Architecture and Engineering, Formal Methods, Re-engineering and Reverse Engineering, Reuse, Software Management Issues, Compilers, Libraries, Support Tools.
- **Software Quality**: Quality Management and Assurance, Risk Analysis, Program Analysis, Verification, Validation, Testing of Software Systems.
- **Mainstream and Emerging Applications**: Manufacturing, Robotics, Avionics, Space, Health Care, Transportation, Cloud Environments, Smart Energy systems, Serious Games, etc.
- **Experience Reports in Reliable System Development**: Case Studies and Comparative Assessments, Management Approaches, Qualitative and Quantitative Metrics.
- **Experiences with Ada and its Future**: Reviews of the Ada 2012 new language features, implementation and use issues, positioning in the market and in the software engineering curriculum, lessons learned on Ada Education and Training Activities with bearing on any of the conference topics.

Call for Regular Papers

Authors of regular papers which are to undergo peer review for acceptance are invited to submit original contributions. Paper submissions shall not exceed 14 LNCS-style pages in length. Authors shall submit their work via EasyChair following the link https://easychair.org/conferences/?conf=adaeurope2015..The format for submission is solely PDF.

Proceedings

The conference proceedings will be published in the Lecture Notes in Computer Science (LNCS) series by Springer, and will be available at the start of the conference. The authors of accepted regular papers shall prepare camera-ready submissions in full conformance with the LNCS style, not exceeding 14 pages and strictly by March 29, 2015. For format and style guidelines authors should refer to http://www.springer.de/comp/lncs/authors.html. Failure to comply and to register for the conference by that date will prevent the paper from appearing in the proceedings.

The CiteSeerX Venue Impact Factor has the Conference in the top quarter. Microsoft Academic Search has it in the top third for conferences on programming languages by number of citations in the last 10 years. The conference is listed in DBLP, SCOPUS and Web of Science Conference Proceedings Citation index, among others.

Awards

Ada-Europe will offer honorary awards for the best regular paper and the best presentation.

Call for Industrial Presentations

The conference seeks industrial presentations which deliver value and insight but may not fit the selection process for regular papers. Authors are invited to submit a presentation outline of exactly 1 page in length by January 25, 2015. Submissions shall be made via EasyChair following the link https://easychair.org/conferences/?conf=adaeurope2015. The Industrial Committee will review the submissions and make the selection. The authors of selected presentations shall prepare a final short abstract and submit it by April 12, 2015, aiming at a 20-minute talk. The authors of accepted presentations will be invited to submit corresponding articles for publication in the *Ada User Journal (http://www.ada-europe.org/auj/)*, which will host the proceedings of the Industrial Program of the Conference. For any further information please contact the Industrial Chair directly.

Call for Tutorials

Tutorials should address subjects that fall within the scope of the conference and may be proposed as either half- or full-day events. Proposals should include a title, an abstract, a description of the topic, a detailed outline of the presentation, a description of the presenter's lecturing expertise in general and with the proposed topic in particular, the proposed duration (half day or full day), the intended level of the tutorial (introductory, intermediate, or advanced), the recommended audience experience and background, and a statement of the reasons for attending. Proposals should be submitted by e-mail to the Tutorial Chair. The authors of accepted full-day tutorials will receive a complimentary conference registration as well as a fee for every paying participant in excess of 5; for half-day tutorials, these benefits will be accordingly halved. The *Ada User Journal* will offer space for the publication of summaries of the accepted tutorials.

Call for Workshops

Workshops on themes that fall within the conference scope may be proposed. Proposals may be submitted for half- or full-day events, to be scheduled at either end of the conference week. Workshop proposals should be submitted to the Conference Chair. The workshop organizer shall also commit to preparing proceedings for timely publication in the *Ada User Journal*.

Call for Exhibitors

The commercial exhibition will span the three days of the main conference. Vendors and providers of software products and services should contact the Exhibition Chair for information and for allowing suitable planning of the exhibition space and time.

Grants for Reduced Student Fees

A limited number of sponsored grants for reduced fees is expected to be available for students who would like to attend the conference or tutorials. Contact the Conference Chair for details.