

# Call for Papers

## 19<sup>th</sup> International Conference on Reliable Software Technologies – Ada-Europe 2014

23-27 June 2014, Paris, France



<http://www.ada-europe.org/conference2014>

### General Chair

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In cooperation with  
ACM SIGAda, SIGBED, SIGPLAN



### General Information

The 19<sup>th</sup> International Conference on Reliable Software Technologies – Ada-Europe 2014 will take place in Paris, France. As per its traditional style, the conference will span a full week, including, from Tuesday to Thursday, three days of parallel scientific, technical and industrial programs, along with tutorials and workshops on Monday and Friday.

### Schedule

15 December 2013 ( <b>Extended</b> )	Submission of regular papers, tutorial and workshop proposals
19 January 2014	Submission of industrial presentation proposals
16 February 2014	Notification of acceptance to all authors
16 March 2014	Camera-ready version of regular papers required
18 May 2014	Industrial presentations, tutorial and workshop material

### 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.
- **Theory and Practice of High-Integrity Systems:** Challenges from Mixed-Criticality Systems; Medium to Large-Scale Distribution, Fault Tolerance, Security, Reliability, Trust and Safety, Languages Vulnerabilities.
- **Software Architectures:** Design Patterns, Frameworks, Architecture-Centred 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.
- **Enabling Technologies:** Compilers, Support Tools (Analysis, Code/Document Generation, Profiling), Run-time Systems and Libraries.
- **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.

## Program Committee

Mario Aldea, Universidad de Cantabria, Spain  
Ted Baker, US National Science Foundation, USA  
Johann Blieberger, Technische Universität Wien, Austria  
Bernd Burgstaller, Yonsei University, Korea  
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Tullio Vardanega, University of Padova, Italy  
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## Industrial Committee

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Ian Broster, Rapita Systems, UK  
Jørgen Bundgaard, Rambøll, DK  
Dirk Craeynest, Ada-Belgium & KU Leuven, Belgium  
Peter Dencker, ETAS, Germany  
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Ahlan Marriott, White Elephant, CH  
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Quentin Ochem, AdaCore, France  
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Paolo Panaroni, Intecs, Italy  
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Alok Srivastava, TASC, USA  
Claus Stellwag, Elektrobit, Germany  
Jean-Loup Terrailon, European Space Agency, Netherlands  
Rod White, MBDA, UK

## 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 relevant link on the conference web site. 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 16, 2014. 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 CORE ranking (dated 2008) has the conference in class A. The CiteSeerX Venue Impact Factor had it 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 19, 2014. Submissions shall be made via EasyChair following the relevant link on the conference web site. 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 May 18, 2014, 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, 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 *General 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 *General Chair* for details.