



# Call for Papers

## The Ada Connection

16<sup>th</sup> International Conference on  
Reliable Software Technologies -  
Ada-Europe 2011

Ada Conference UK  
2011

20 - 24 June 2011, Edinburgh, UK

<http://www.ada-europe.org/conference2011>

### Honorary Chair

*John Barnes*  
John Barnes Informatics, UK  
jgpb@jbinfo.demon.co.uk

### Conference Co-Chairs

*Rod Chapman*  
Altran Praxis Ltd, UK  
rod.chapman@altran-praxis.com

*Steve Riddle*  
Newcastle University, UK  
steve.riddle@ncl.ac.uk

### Program Co-Chairs

*Alexander Romanovsky*  
Newcastle University, UK  
alexander.romanovsky@ncl.ac.uk

*Tullio Vardanega*  
University of Padua, Italy  
tullio.vardanega@math.unipd.it

### Tutorial Chair

*Albert Llemosi*  
Universitat de les Illes Balears, Spain  
albert.llemosi@uib.cat

### Exhibition Chair

*Joan Atkinson*  
CSR, UK  
joan.atkinson@ncl.ac.uk

### Industrial Chair

*Jamie Ayre*  
AdaCore, France  
ayre@adacore.com

### Publicity Chair

*Dirk Craeynest*  
Aubay Belgium & K.U.Leuven,  
Belgium  
Dirk.Craeynest@cs.kuleuven.be

### Finance Chair

*Neil Speirs*  
Newcastle University, UK  
neil.speirs@ncl.ac.uk

### Local Chairs

*Joan Atkinson, Claire Smith*  
CSR, UK  
joan.atkinson@ncl.ac.uk  
claire.smith@ncl.ac.uk

### General Information

**The Ada Connection** combines the 16<sup>th</sup> International Conference on Reliable Software Technologies – *Ada-Europe 2011* – with *Ada Conference UK 2011*. It will take place in Edinburgh, Scotland's capital city and the UK's most popular conference destination.

In traditional Ada-Europe 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. The Ada Connection will also encompass technical and vendor tracks under the banner of Ada Conference UK, which exists to promote awareness of Ada and to highlight the increased relevance of Ada in safety- and security-critical programming.

The Ada Connection will thus provide a unique opportunity for interaction and collaboration between academics and industrial practitioners.

### Schedule

21 November 2010	Submission deadline for regular papers, tutorial and workshop proposals
8 January 2011	Submission of industrial presentation proposals
8 February 2011	Notification of acceptance to authors
8 March 2011	Camera-ready version of regular papers required
16 May 2011	Industrial presentations, tutorial and workshop material required
20-24 June 2011	Conference

### Topics

Over the years Ada-Europe has established itself as an international forum for providers, practitioners and researchers into reliable software technologies. The conference presentations will illustrate current work in the theory and practice of the development and maintenance of long-lived, high-quality software systems for a variety of established and novel application domains. The program will allow ample time for keynotes, Q&A sessions, panel discussions and social events. Participants will include practitioners and researchers representing industry, academia and government organizations active in the promotion and development of reliable software technologies.

All contributions, whether regular papers, industrial presentations, tutorials or workshops, should address the topics of interest to the conference, which for this edition include but are not limited to:

- **Methods and Techniques for Software Development and Maintenance:** Requirements Engineering, Object-Oriented Technologies, Model-driven Engineering, Formal Methods and Supporting Toolsets, Re-engineering and Reverse Engineering, Reuse, Software Management.
- **Software Architectures:** Architectural Styles, Service-Oriented Architectures, Cloud Service Model, Design Patterns, Frameworks, Architecture-Centered Development, Component and Class Libraries, Component-based Design and Development.
- **Enabling Technologies:** Software Development Environments, Compilers, Debuggers, Run-time Systems, Middleware Components, Concurrent and Distributed Programming, Ada Language and Technologies.
- **Software Quality:** Quality Management and Assurance, Risk Analysis, Program Analysis, Verification, Validation, Testing of Software Systems.
- **Theory and Practice of High-Integrity Systems:** Real-Time, Distribution, Fault Tolerance, Security, Reliability, Availability, Trust and Safety, Language Vulnerabilities.
- **Embedded Systems:** Multicore Architectures, HW/SW Co-Design, Reliability and Performance Analysis.
- **Mainstream and Emerging Applications:** Manufacturing, Robotics, Avionics, Space, Health Care, Transportation, Energy, Fun and Business Games, Telecommunication, etc.
- **Experience Reports:** Case Studies and Comparative Assessments, Management Approaches, Qualitative and Quantitative Metrics.
- **The Future of Ada:** New language features, implementation and use issues; positioning in the market and in education; where should Ada stand in the software engineering curriculum; lessons learned on Ada Education and Training Activities with bearing on any of the conference topics.



In cooperation with  
ACM SIGAda  
(approval pending)

## Program Committee

Alejandro Alonso, Universidad Politécnica de Madrid, Spain  
Ted Baker, Florida State University, USA  
John Barnes, John Barnes Informatics, UK  
Johann Blieberger, Technische Universität Wien, Austria  
Jørgen Bundgaard, Roving A/S, Denmark  
Bernd Burgstaller, Yonsei University, Korea  
Alan Burns, University of York, UK  
Jon Burton, Altran Praxis Limited, UK  
Rod Chapman, Altran Praxis Limited, UK  
Dirk Craeynest, Aubay Belgium & K.U.Leuven, Belgium  
Alfons Crespo, Universidad Politécnica de Valencia, Spain  
Juan A. de la Puente, Universidad Politécnica de Madrid, Spain  
Franco Gasperoni, AdaCore, France  
Michael González Harbour, Universidad de Cantabria, Spain  
José Javier Gutiérrez, Universidad de Cantabria, Spain  
Andrew Hately, Eurocontrol Experimental Centre, France  
Peter Hermann, Universität Stuttgart, Germany  
Jérôme Hugues, ISAE Toulouse, France  
Albert Lemosí, Universitat de les Illes Balears, Spain  
Franco Mazzanti, ISTI-CNR Pisa, Italy  
John McCormick, University of Northern Iowa, USA  
Julio Medina, Universidad de Cantabria, Spain  
Stephen Michell, Maurya Software, Canada  
Javier Miranda, Universidad Las Palmas de Gran Canaria, Spain  
Daniel Moldt, University of Hamburg, Germany  
Jürgen Mottok, Regensburg University of Applied Sciences, Germany  
Laurent Pautet, Telecom Paris, France  
Luís Miguel Pinho, Polytechnic Institute of Porto, Portugal  
Erhard Plödereder, Universität Stuttgart, Germany  
Jorge Real, Universidad Politécnica de Valencia, Spain  
Alexander Romanovsky, Newcastle University, UK  
Bo I. Sandén, Colorado Technical University, USA  
Sergio Sáez, Universidad Politécnica de Valencia, Spain  
Ed Schonberg, AdaCore, USA  
Theodor Tempelmeier, Univ. of Applied Sciences Rosenheim, Germany  
Jean-Loup Terrailon, European Space Agency, The Netherlands  
Elena Troubitsyna, Åbo Akademi, Finland  
Santiago Urueña, GMV, Spain  
Tullio Vardanega, Università di Padova, Italy  
Andy Wellings, University of York, UK  
Jürgen Winkler, Friedrich-Schiller Universität, Germany

## Industrial Committee

Guillem Bernat, Rapita Systems, UK  
Dirk Craeynest, Aubay Belgium & K.U.Leuven, Belgium  
Hubert Keller, Forschungszentrum Karlsruhe GmbH, Germany  
Ismael Lafoz, Airbus Military, Spain  
Ahlan Marriot, White-Elephant GmbH, Switzerland  
Paul Parkinson, Wind River, UK  
Jean-Pierre Rosen, Adalog, France  
Alok Srivastava, TASC Inc, USA  
Rei Strähle, Sweden  
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 be in English, complete and not exceeding 14 LNCS-style pages in length. Authors should submit their work via the Web submission system accessible from the Conference Home page. The format for submission is solely PDF. Should you have problems to comply with format and submission requirements, please contact the *Program Chairs*.

## 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 8 March 2011. 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 conference is ranked class A in the CORE ranking and is listed among the top quarter of CiteSeerX Venue Impact Factor.

## Awards

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

## Call for Industrial Presentations

The conference also seeks industrial presentations which deliver value and insight, but may not fit the selection process for regular papers. Authors of industrial presentations are invited to submit a short overview (at least one page) of the proposed presentation by 8 January 2011. Please follow the submission instructions on the conference website. The *Industrial Committee* will review the proposals and make the selection. The authors of selected presentations shall prepare a final short abstract and submit it by 16 May 2011, aiming at a 20-minute talk. Accepted authors will also 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, to be scheduled at either end of the conference week. 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 five; 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.