Call for Papers
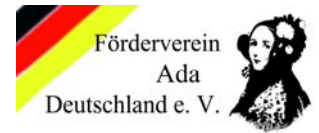# 18th International Conference on Reliable Software Technologies
Ada-Europe 2013
10-14 June 2013, Berlin, Germany

http://www.ada-europe.org/conference2013

Förderverein
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Deutschland e. V.

Special Interest Group Ada of the German Informatics Society

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In cooperation (approval pending) with
ACM SIGAda, SIGBED, SIGPLAN

General Information

The 18th International Conference on Reliable Software Technologies – Ada-Europe 2013 will take place in Berlin, Germany. Following its traditional style, the conference will span a full week, including, from Tuesday to Thursday, three days of parallel scientific, technical and industrial sessions, along with parallel tutorials and workshops on Monday and Friday.

Schedule

12 December 2012	Submission of regular papers, tutorial and workshop proposals
14 January 2013	Submission of industrial presentation proposals
11 February 2013	Notification of acceptance to all authors
10 March 2013	Camera-ready version of regular papers required
11 May 2013	Industrial presentations, tutorial and workshop material required

Topics

The conference has successfully 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 design, development and maintenance of long-lived, high-quality software systems for a variety of 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.

To mark the completion of the **Ada 2012** standard revision process, contributions are sought that discuss experiences with the revised language.

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

- **Multicore Programming**: Reliable Parallel Software, Scheduling on Multi-Core Systems, Compositional Parallelism Models, Performance Modelling, Deterministic Debugging.
- **Real-Time and Embedded Systems**: Real-Time Software, Architecture Modelling, HW/SW Co-Design, Reliability and Performance Analysis.
- **Theory and Practice of High-Integrity Systems**: Distribution, Fault Tolerance, Security, Reliability, Trust and Safety, Languages Vulnerabilities.
- **Software Architectures**: Design Patterns, Frameworks, Architecture-Centered Development, Component and Class Libraries, Component-based Design and Development.
- **Methods and Techniques for Software Development and Maintenance**: Requirements Engineering, Object-Oriented Technologies, 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, Distributed Systems, Ada and other Languages for Reliable Systems.
- **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, Energy, Games and 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**: 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.

Program Committee

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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 EasyChair conference system (*http://www.easychair.org/conferences/?conf=ae13*). The format for submission is solely PDF. For any remaining questions, please contact a *Program Co-Chair*.

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 10, 2013. For format and style guidelines authors should refer to the following URL: *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, is among the top quarter of CiteSeerX Venue Impact Factor, and listed in DBLP, SCOPUS and the 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 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 an overview (at least 1 full page in length) of the proposed presentation by January 14, 2013, via the EasyChair conference system (*http://www.easychair.org/conferences/?conf=ae13*). 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 May 13, 2013, 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 a *Conference Co-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.

Grant 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 a *Conference Co-Chair* for details.