Final Call for Papers
17th International Conference on Reliable Software Technologies
Ada-Europe 2012
11-15 June 2012, Stockholm, Sweden

http://www.ada-europe.org/conference2012

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In cooperation with
ACM SIGAda, SIGBED, SIGPLAN

General Information

The 17th International Conference on Reliable Software Technologies – Ada-Europe 2012 will take place in Stockholm, Sweden. Following 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 parallel tutorials and workshops on Monday and Friday.

Schedule

5 December 2011	Submission of regular papers, tutorial and workshop proposals (extended). Abstract registration until November 28.
12 January 2012	Submission of industrial presentation proposals
3 February 2012	Notification of acceptance to all authors
2 March 2012	Camera-ready version of regular papers 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 technical work for the **Ada 2012** standard revision process, contributions that discuss the potential of the revised language are sought after. In parallel, facing the challenges presented to the development of reliable concurrent software, **multicore programming models** is added to the conference topics of interest.

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

- **Multicore Programming Models**: Reliable Parallel Software, Parallel Execution of Ada Programs, Compositional Parallelism Models, Performance Modelling, Deterministic Debugging.
- **Real-Time and Embedded Systems**: Real-Time Software, Architecture Modeling, 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**: 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.

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=adaeurope2012*). 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 March 2, 2012. 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 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 a short overview (at least 1 page in size) of the proposed presentation by January 12, 2012. 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 May 11, 2012, 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 *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 *Conference 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 the *Conference Chair* for details.