14ᵗʰ International Conference on Reliable Software Technologies – Ada-Europe 2009

8-12 June 2009, Brest, France

http://www.ada-europe.org/conference2009.html

The Conference

The 14ᵗʰ International Conference on Reliable Software Technologies – Ada-Europe 2009 will take place in Brest, France, on 8-12 June 2009. The conference has established itself as an international forum for providers, practitioners and researchers into reliable software technologies. Following its consolidated tradition, the conference will span a full week, with at its centre from Tuesday to Thursday a three-day technical program accompanied by vendor exhibitions, and at either end on Monday and Friday a string of parallel tutorials and workshops. The previous editions in this conference series were held at Montreux, Switzerland ('96), London, UK ('97), Uppsala, Sweden ('98), Santander, Spain ('99), Potsdam, Germany ('00), Leuven, Belgium ('01), Vienna, Austria ('02), Toulouse, France ('03), Palma de Mallorca, Spain ('04), York, UK ('05), Porto, Portugal ('06), Geneva, Switzerland ('07) and Venice, Italy ('08).

The conference presentations will illustrate current work in the theory and practice of the analysis, design, programming, verification and maintenance of long-lived, high-integrity software systems for a variety of application domains. The program also features outstanding keynotes and a robust track of industrial presentations. As usual, the conference provides ample time for Q&A sessions, panel discussions and social events. Participants include practitioners and researchers from industry, academia and government organizations interested in the promotion and development of reliable software technologies.

Overall Program

The conference program altogether features 10 tutorials, a technical program of 19 thoroughly refereed papers, a collection of 6 industrial presentations reflecting current practice and challenges in real-life software projects, three eminent invited speakers, a rich exhibition, two workshops on Software Vulnerabilities and on AADL, and an especially attractive social program. Springer will publish the proceedings of the regular program of the conference as Volume 5570 of the LNCS. The Ada User Journal will publish the proceedings of the other tracks of the program.

Keynote Addresses

Three eminent keynote speakers have been selected to open each day of the core conference program:

- John Benito (Blue Pilot Consulting, USA), a leading member of the international standardization and programming languages community, will deliver a talk entitled: "*ISO JTC 1/SC 22/WG 23 work on programming language vulnerabilities*".
- Pierre Sens (LIP6, Université Pierre et Marie Curie, Paris), a leading researcher in software technologies for distributed systems who will present us fault tolerance technologies in a talk entitled: "*Fault tolerance in large scale distributed systems*".
- Peter H. Feiler (SEI/CMU, USA), a worldwide expert in architecture modeling and verification, will discuss how AADL can be used for such a purpose in a talk entitled: "*Validation of safety critical systems with AADL*".

Tutorial Program

The two days at either side of the core conference program include a rich selection of tutorials delivered by domain experts who will cover a variety of topics of interest to the conference community:

- *Building cross language applications using Ada,* Quentin Ochem (AdaCore, France).

- *An introduction to parallel and real-time programming with Ada,* John Mc Cormick (University of Northern Iowa, USA).

- *Software fault-tolerance,* Pat Rogers (AdaCore, USA).

- *Software measures for building dependable software systems,* William Bail (MITRE, USA).

- *Modeling for schedulability analysis with the UML profile for MARTE,* Julio Medina (Universidad de Cantabria, Spain), Huascar Espinoza (CEA-List, France).

- *SPARK - the libre language and toolset for high-assurance software,* Roderick Chapman (Praxis High Integrity Systems, UK).

- *Hard real-time and embedded systems programming,* Pat Rogers (AdaCore, USA).

- *Designing real-time, concurrent, and embedded software systems using UML and Ada,* Rob Pettit (The Aerospace Corporation, USA).

- *Object-oriented programming in Ada 2005,* Matthew Heaney (On2 Technologies, USA).

- *Execution time: analysis, verification, and optimization in reliable systems,* Ian Broster (Rapita Systems, UK).

Technical Program

The technical program of the conference includes 19 thoroughly peer-refereed papers on a wealth of subjects pertinent to the conference themes, from submissions coming from as many as 19 countries worldwide. The program also features a collection of 6 industrial presentations of challenges faced and solutions devised in real-life projects and a half-day vendor-presentation session.

Exhibition

The exhibition will open in the mid-morning break on Tuesday and run continuously until the end of the afternoon break on Thursday. Breaks will last one full hour to allow attendees comfortable time to visit the exhibition.

Conference Venue

Brest enjoys a wonderful location, on the shores of a very large bay, with the beauty of inland and coastal Brittany all around it. The town of Brest was destroyed during the second world war and (quickly) rebuilt in a modern style. The city is a centre of commerce, combining the cobbled streets and fortifications of the old port with all the attractions and facilities of the modern city. Anyone who loves ports will want to see the dock yards. Its 17th century castle was spared by the bombs and gives a good point of view of the harbour. The Brest castle now houses a museum and offices of the harbour authorities. The fine arts museum Musee des Beaux-arts is worth finding for it's collection of Pont-Aben school paintings. Brest is famous today for being the home of Oceanopolis - the largest aquarium in Europe. The Oceanpolis is not just an aquarium but a huge research centre and exhibition of sea life and all it's aspects, with huge tanks of fish and sea mammals.

Social Program

The social program of the conference will open with a welcome reception at Oceanopolis: Brittany's sea park by the Marina in Brest. The Sea Park is organized around 3 buildings which highlight the diversity and the habitat of the seas around the world: a temperate building which presents sea life around Brittany, the tropical building displays tropical and colorful fishes and sharks, the polar building is home of about 40 penguins. The 50 aquariums make it possible to observe the various animals and plants in their habitat and numerous activities (interactive games, posters, movies, ...) provide valuable information to discover the under-sea world. Ellidiss Technologies sponsors the reception at Oceanopolis.

The conference banquet will take place by the sea side, in the charming village of Porspoder, located 25 km North West of Brest: this area provides a spectacular landscape of rough cliffs and sandy coves, and impressive marine streams due to the collision of the Channel and the Atlantic waters. AdaCore sponsors the banquet.

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