ABZ 2010 Conference

Abstract State Machines (ASM), Alloy, B and Z
February 22-25, 2010
Orford, Québec, Canada
http://abzconference.org

Call for Papers

Important dates

Submission of full papers	September 30, 2009
Submission of extended abstracts for short presentations	October 11, 2009
Communication about acceptance / rejection of submitted papers and extended abstracts	November 9, 2009
Camera-ready version of the accepted full papers and one-page abstract for the short presentations	November 23, 2009
Submission of tutorial proposals	November 17, 2009
Tutorials and workshops	February 22, 2010
Main ABZ 2010 conference	February 23-25, 2010

Abstract State Machines (ASM), Alloy, B and Z are four rigorous methods that share a common conceptual foundation and are widely used in both academia and industry for the design and analysis of hardware and software systems. The ABZ conference is dedicated to the cross-fertilization of these four related state-based and machine-based formal methods. It builds on the success of first ABZ conference held in London in 2008, where the ASM, B and Z conference series merged into a single event.

The papers will be published in a volume of Springer's LNCS series. Contributions are solicited on all aspects of the theory and applications of ASMs, Alloy, B, Z and related approaches in software/hardware engineering, including the development of tools and industrial applications.

The program spans from theoretical and methodological foundations to practical applications, emphasizing system engineering methods and tools that are distinguished by mathematical rigor and have proved to be industrially viable. A main goal of the conference is to contribute to the integration of accurate state- and machine-based system development methods, clarifying their commonalities and differences to better understand how to combine related approaches for accomplishing the various tasks in modelling, experimental validation, and mathematical verification of reliable high-quality hardware/software systems.

The conference will consist of a one-day common program of invited lectures and two days of contributed papers. Although organized logistically as a single, integral event, editorial control of the joint conference remains vested in four separate programme committees, which will respectively determine its ASM, Alloy, B and Z content, to be presented in parallel conference tracks with a schedule to allow the participants to switch between the sessions. It will be preceded by a day of tutorials and workshops.

Two kinds of contributions are invited:

1. Research papers: full papers of not more than 14 pages in LNCS format, which have to be original, unpublished and not submitted elsewhere.
2. Short presentations of work in progress, industrial experience reports and tool demonstrations. This is an excellent opportunity for Ph.D. students to present and validate their work in progress. It is also an interesting option for industrial practitioners who sometimes face too many constraints to prepare a full

paper. An extended abstract of not more than 3 pages is expected and will be reviewed. A volume of accepted extended abstracts will be made available on the conference web site, and a one-page abstract of each presentation will be published in the Proceedings.

Short paper presentations will be mixed with full paper presentations in the program, to foster discussions and interactions between all participants.

Tutorial Proposals

Tutorial proposals are solicited in areas related to the conference topics. Proposals should be sent to Marc Frappier marc.frappier@usherbrooke.ca .

Conference Chair

Marc Frappier, University of Sherbrooke, Canada

Program Chairs

Uwe Glaesser, Simon Fraser University, Canada (ASM)
Sarfraz Khurshid, University of Texas at Austin, USA (Alloy)
Régine Laleau, University of Paris-Est, France (B)
Steve Reeves, University of Waikato, New Zealand (Z)

Program Committee

Yamine Ait Ameur, LISI/ENSMA-UP, France
Rob Arthan, Lemma 1 Ltd., UK
Richard Banach, University of Manchester, UK
Juan Bicarregui, STFC Rutherford Appleton Laboratory, UK
Eerke Boiten, University of Kent, UK
Egon Börger, University of Pisa, Italy
Jonathan Bowen, Museophile Limited / King's College London, UK
Michael Butler, University of Southampton, UK
Ana Calvacanti, University of York, UK
Alessandra Cavarra, Oxford University, UK
John Derrick, University of Sheffield, UK
Juergen Dingel, Queen's University, Canada
Daniel Dolle, Siemens Transportation Systems, France
Andriy Dunets, Universität Augsburg, Germany
Steve Dunne, University of Teesside, UK
Neil Evans, AWE plc Aldermaston, UK
Mamoun Filali, CNRS-IRIT, University of Toulouse, France
Kathi Fisler, Worcester Polytechnic Institute, USA
Andreas Friesen, SAP Research, Germany
Frédéric Gervais, LACL, University of Paris-Est, France
Susanne Graf, Verimag, France
Anthony Hall, independent consultant, UK
Ian Hayes, University of Queensland, Australia
Martin Henson, University of Essex, UK
Rob Hierons, Brunel University, UK
Daniel Jackson, Massachusetts Institute of Technology, USA
Jonathan Jacky, University of Washington, USA
Jeremy Jacob, University of York, UK
Jacques Julliand, LIFC, University of Besançon, France
Viktor Kuncak, Ecole Polytechnique Federale de Lausanne, Switzerland
Daniel LeBerre, Universite d'Artois, France

Thierry Lecomte, Clearsy, France
Michael Leuschel, University of Düsseldorf, Germany
Darko Marinov, University of Illinois, USA
Annabelle McIver, Macquarie University, Sydney, Australia
Dominique Mery, LORIA, University of Nancy, France
Anamaria Martins Moreira, UFRN, Natal, Brazil
Jose Oliveira, University of Minho, Portugal
Marie-Laure Potet, VERIMAG, Grenoble, France
Andreas Prinz, Agder University College, Norway
Burkhardt Renz, University of Applied Sciences Gieben-Friedberg, Germany
Elvinia Riccobene, University of Milan, Italy
Ken Robinson, University of New South Wales, Australia
Thomas Santen, European Microsoft Innovation Center, Germany
Klaus-Dieter Schewe, Massey Univesity, New Zealand
Emil Sekerinski, McMaster University, Canada
Anatol Slissenko, University of Paris 12, France
Kevin Sullivan, University of Virginia, USA
Mana Taghdiri, Universität Karlsruhe, Germany
Helen Treharne, University of Surrey, UK
Jan Van den Bussche, University of Hasselt, Belgium
Mandana Vaziri, IBM T.J. Watson Research Center, USA
Margus Veanes, Microsoft Research, USA
Laurent Voisin, Systerel, France
Marina Waldén, Åbo Akademi University, Turku, Finland
Chuck Wallace, Michigan Technological University, USA
Pamela Zave, AT&T Laboratories, USA

Venue

The conference will take place in Orford, Québec, Canada. Orford is located in the picturesque Eastern Townships, at the entrance of the Mount Orford National Park. The conference being held in the winter season, participants can enjoy the natural beauty of the national park and its winter sports facilities (skiing, snowboarding, cross-country skiing, snowshoeing, skating). The area is also well known for its excellent cuisine and recreational infrastructure.

Supported by

ASM User Group
Association de Pilotage des Conférences B
Université de Sherbrooke
Université Paris-Est
Z User Group

Information on how to submit papers, to register, to reach Orford, weather conditions, etc., will be available in due time at http://abzconference.org. For questions concerning ABZ 2010, contact Prof. Marc Frappier marc.frappier@usherbrooke.ca.