FINAL PROGRAM
The 7th International Conference of B Users
16th January - 19th January 2007
Conference Program

Tuesday 16 January

14h Tutorial by Laurent Voisin, Swiss Federal Institute of Technology, Zurich, member of the European project Rodin (Rigorous Open Development Environment for Complex Systems) – chair: Olga Kouchnarenko

Wednesday 17 January

9h Registration
9h45 Welcome Opening
10h Invited talk by Joseph Morris, School of Computing, Dublin City University, Ireland – Plug and Play Nondeterminacy – chair: Didier Bert

11h Coffee break

11h30 Session Theoretical issues – chair: Didier Bert
• Interpreting Invariant Composition in the B Method Using Spec# ownership relation: a way to explain and relax B restrictions
  Sylvain Boulmé and Marie-Laure Potet, U. of Grenoble - France
• Chorus Angelorum
  Steve Dunne, U. of Teesside – UK

12h30 Presentation of tool exhibitions by Fabrice Bouquet
12h45 Tool session – chair: Marc Frappier
• JML2B: Checking JML Specifications with B machines
  Fabrice Bouquet, Frédéric Dadeau and Julien Groslambert,
  U. of Franche-Comté - France

13h Lunch

14h30 Session B extensions – chair: Michael Butler
• Augmenting B with Control Annotations
  Wilson Ifill, Steve Schneider and Helen Treharne, U. of Surrey – UK
• Justifications for the Event-B Modelling Notation
  Stefan Hallerstedt, ETH Zürich - Switzerland

15h30 Tool session – chair: Fabrice Bouquet
• A Generic Flash-based Animation Engine for ProB
  Jens Bendisposto and Michael Leuschel, U. of Düsseldorf, Germany
• The B extensible Eclipse Editing Environment
  Jens Bendisposto and Michael Leuschel, U. of Düsseldorf, Germany

16h Coffee break and Demos

16h30 Session B Tools, tests and model-checking – chair: Françoise Bellegarde
• Automatic Translation from Combined B and CSP Specification to Java Programs
  Letu Yang and Michael Poppleton, U.of Southampton – UK
• Symmetry Reduction for B by Permutation Flooding
  Michael Leuschel and Corinna Spermann, U. of Düsseldorf– Germany
  Michael Butler and Edward Turner, U. of Southampton – UK
• Instantiation of Parameterized Data Structures for Model-Based Testing
  Fabrice Bouquet, Jean-François Couchot, Frédéric Dadeau and Alain Giorgetti, U. of Franche-Comté – France

18h End of session
18h30 Reception in the town hall
Thursday 18 January

9h  Invited talk by Leslie Lamport, Microsoft corporation – Comparing TLA+ and B – chair: Dominique Méry

10h  Session B extensions – chair: Dominique Méry

- Verification of LTL Properties in B Event Systems
  Julien Groslandbert, U. of Franche-Comté - France

10h30  Coffee break and Demos

11h  Session Case studies and specification method – chair: Ken Robinson

- Design Patterns for B: Bridging Formal and Informal Development
  Edward Chan, Ken Robinson and Brett Welch, U. of New South Wales – Australia
- Time Constraint Patterns in Event B Development
  Dominique Cansell, Dominique Méry, Joris Rehm, U. of Nancy – France
- Modelling and Proof Analysis of Interrupt Driven Scheduling
  Bill Stoddard and Frank Zeyda, U. of Teesside – UK
  Dominique Cansell, U. of Metz – France

12h30  Lunch

14h  Industrial event: Invited talk by Eddie Jaffuel, Leirios Technologies - France

Using B Machines for Model-Based Testing of Smartcard Software – chair: Marie-Laure Potet

15h  Session Industrial experiences – chair: Marie-Laure Potet

- Experiences in Using B and UML in Industrial Development
  Ian Oliver, Nokia Research Center - Finland
- B in Large-Scale Projects: The Canarsie Line CBTC Experience
  Daniel Dollé, Didier Essamé, SIEMENS Transportation Systems - France

16h  Coffee break and Demos

16h30  Session Industrial experiences – chair: Marina Waldén

- A Tool for Firewall Administration
  Mathieu Clabaut, Systerel – France
- The B-Method for the Construction of Microkernel-Based Systems
  Sarah Hoffmann and Sophie Gabriele, STMicroelectronics - France
- Hardware Verification and Beyond: Using B at AWE
  Neil Evans and Wilson Ifill, Atomic Weapons Establishment - UK

18h  End of Industrial Event

18h30  Visit of Time Museum

20h  Conference dinner
Friday 19 January

9h  Invited talk by David Chemouil, CNES, Toulouse, The Design of Spacecraft on-Board Software – chair: Mamoun Filali

10h  **Tool session** – chair: Daniel Dollé
- BRAMA: a New Graphic Animation Tool for B Models
  Clearsys - France
- LEIRIOS Test Generator: Automated Test Generation From B models
  Eddie Jaffuel and Bruno Legeard, LEIRIOS Technologies - France

10h45  *Coffee break*

11h15  **Session Integration and Derivation** – chair: Steve Dunne
- Refinement of Statemachines using Event B Semantics
  Colin Snook, U. of Southampton – UK and Marina Waldén, U. of Turku – Finland
- Formal Transformation of Platform Independent Models into Platform Specific Model
  Pontus Boström, Mats Neovius, Marina Waldén, U. of Turku and, Ian Oliver, NOKIA – Finland
- Refinement of EB3 Process Patterns into B Specifications
  Frédéric Gervais, CNAM-IIE, Régine Laleau, U. of Paris 12 – France
  Marc Frappier, U. of Sherbrooke – Canada

12h15  **Demos**

12h30  **Lunch**

14h  Invited talk by Paul Gibson, National University of Ireland, Maynooth –
- e-voting and the need for rigourous software engineering - the past, present and future – chair: Dominique Cansell

15h  **Tool session** – chair: Dominique Cansell
- A JAG Extension for Verifying LTL Properties on B Event Systems
  Julien Groslambert, U. of Franche-Comté - France
- Meca: Tool for Access Control Models
  Amal Haddad, U. of Grenoble - France

15h30  **Session Security policy verification** – chair: Helen Treharne
- Security Policy Enforcement through Refinement Process
  Nicolas Stouls, Marie-Laure Potet, U. of Grenoble – France
- Integration of Security Policy into System Modeling
  Nazim Benaissa, Dominique Cansell and Dominique Méry, U. of Nancy – France

16h30  **Closing session**

17h  **End of the Conference**