Bon, Akram Idani and Yves Ledru
Rules
B Formal Validation of ERTMS/ETCS Railway Operating
Short Papers.
David Schneider
Solving The Jobs Puzzle Challenge
Towards B as a High
Quasi
15h3
15h00
Jean
14h00
Graeme Smith and Qin Li
MAZE: An extension of Object-Z for multi-agent systems.
Graeme Smith and Qin Li

13h00 – 14h00: Lunch

14h00 – 15h00: Invited Talk 2
The Rodin Platform Has Turned Ten. Laurent Voisin and
Jean-Raymond Abrial

15h00 – 15h30 :Coffee Break

15h30 – 17h45 : Session 2
Quasi-Lexicographic Convergence. Stefan Hallerstede
Towards B as a High-Level Constraint Modelling Language:
Solving The Jobs Puzzle Challenge. Michael Leuschel and
David Schneider
Short Papers.
B Formal Validation of ERTMS/ETCS Railway Operating
Rules. Rahma Ben Ayed, Simon Collart-Dutilleul, Philippe
Bon, Akram Idani and Yves Ledru
Analysis of Self-* and P2P Systems using Refinement.
Manamiy Bruno Andriamiriana, Dominique Mery and
Neeraj-Kumar Singh
Modelling Energy Consumption in Embedded Systems with
VDM-RT. José Antonio Esparza Isasa, Peter Würtz Vmith
Jørgensen, Claus Ballegård Nielsen and Stefan Hallerstede
Sealed Containers in Z. Eerke Boiten and Jeremy Jacob
The BWare Project: Building a Proof Platform for the
Automated Verification of B Proof Obligations. David
Delahaye, Catherine Dubois, Claude Marché and David
Mentré
19h00: Cocktail at the Capitole.
Salle Gervais – City Hall of Toulouse

Thursday June 5th

08h30 – 10h00: Session 3
The Landing Gear System Case Study. Frédéric Boniol and
Virginie Wiels
Aircraft Landing Gear System: Approaches with Event-B to
the Modeling of an Industrial System. Wen Su and Jean-
Raymond Abrial
Modeling and Analyzing using ASMs: the Landing Gear
System case study. Paolo Arcaini, Angelo Gargantini and
Elvinia Riccobene
10h00 – 10h30 :Coffee Break
10h30 – 12h00: session 4
Context-aware Verification of a Landing Gear System.
Philippe Dhaussy and Cipriano Teodorov
Validation of the ABZ Landing Gear System using ProB.
Dominik Hansen, Lukas Ladenberger, Harald Wiegard, Jens
Bendisposto and Michael Leuschel
Modeling a Landing Gear System in Event-B. Amel Mammar
and Régine Laleau
12h00 – 13h00 : Lunch
13h15–15h45: session 5
Offline Model-based Testing and Runtime Monitoring of the
Sensor Voting Module. Paolo Arcaini, Angelo Gargantini and
Elvinia Riccobene
Model-Checking Real-Time Properties of an Airplane
Landing Gear System Using Fiacre. Bernard Berthomieu,
Silvano Dal Zilio and Lukasz Prone
The Landing Gear Case Study in Hybrid Event-B. Richard
Banach

Short Papers.
Landing Gear System: An ASM-based Solution for the ABZ
Case Study. Felix Kossak
Co-simulation Environment for Rodin: Landing Gear Case
Study. Vitaly Savicks, Michael Butler and John Colley
Modelling an Aircraft Landing System in Event-B. Dominique
Mery and Neeraj Singh

Wrapup.
Wrapup of the landing gear case study. Egon Boerger

15h30 – 23h00 : Social Event.
A panel discussion moderated by Egon BÖRGER will
take place at the restaurant at 19h00


Introducing Aspect–Oriented Specification for Abstract State Machines
Marcel Dausend and Alexander Raschke

Modular Refinement for Submachines of ASMs. Gidon Ernst, Jörg Pflähler, Gerhard Schellhorn and Wolfgang Reif

Short Papers.
Towards ASM-based formal specification of self-adaptive systems. Elvinia Riccobene and Patrizia Scandurra

Distributed ASM - Pitfalls and Solutions. Andreas Prinz and Edel Sherratt

WebASM: an Abstract State Machine execution environment for the Web. Simone Zenzaro, Vincenzo Gervasi and Jacopo Soldani

12h45 – 13h45: Lunch

13h45–15h15: session 8

Formal System Modelling Using Abstract Data Types in Event-B. Andreas Fürst, Thai Son Hoang, David Basin, Naoto Sato and Kunihiko Miyazaki

Formal Derivation of Distributed MapReduce. Inna Pereverzeva, Michael Butler, Asieh Salehi Fathabadi, Linas Laibinis and Elena Troubitsyna

Validating the RBAC ANSI 2012 Standard using B. Nghi Huynh, Marc Frappier, Amel Mammar, Regine Laleau and Jules Desharais

15h15-15h30. Break

15h30 – 17h00. Short Papers. Parallel session 9
Invariant Guided System Decomposition. Richard Banach

Understanding and Planning Event-B Refinement through Primitive Rationales. Tsutomu Kobayashi, Fuyuki Ishikawa and Shinichi Honiden

Templates: Re-use and Configuration for Event-B Code Generation. Andrew Edmunds

Tuning the Alt-Ergo SMT Solver for B Proof Obligations. Sylvain Conchon and Mohamed Iguernelala

Fixed-Point Arithmetic Modeled in B Software Using Reals. Jérôme Guery, Olivier Rolland and Joris Rehm

17h00. ABZ2014 Closing.

15h30 – 17h00. Short Papers. Parallel session 10
Bounded Model Checking of Temporal Formulas with Alloy. Alcino Cunha

Formal Verification of OS Security Model with Alloy and Event-B. Petr Devyanin, Victor Kuliamin, Alexander K. Petrenko, Alexey Khoroshilov and Ilya Shchepetkov

Detecting Network Policy Conflicts using Alloy. Ferney Maldonado, Jaime Chavarriaga and Yezid Donoso

Staged Evaluation of Partial Instances in a Relational Model Finder. Vajihollah Montaghami and Derek Rayside

Domain-Specific Visualization of Alloy Instances. Pierre Kelsen and Loïc Gammaitoni

Optimizing Alloy for Multi-Objective Software Product Line Configuration. Ed Zulkoski, Chris Kleyhanss, Ming-Ho Yee, Derek Rayside and Krzysztof Czarnecki