Preface

Keynote Presentation
Automated Verification = Logic + Algorithmics.
Moshe Vardi (Rice University, USA)

Papers (in order of presentation)

p.1  Modelling and Analysis of a Collision Avoidance Protocol using SPIN and UPPAAL.
Henrik Ejersbo Jensen, Kim Larsen, and Arne Skou
(Aalborg University, Denmark)

–  Proposed Analysis of Synchronous Dual Distributed Systems.
Frank Schneider (NASA/JPL, Fairmont, WV, USA)

p.21 Memory efficient storage in SPIN.
Willem Visser (Univ. of Manchester, England)

p.36 Dynamic analysis of SA/RT Models Using SPIN.
Javier Tuya, Jose de Diego, Claudio de la Riva, and Jose Corrales
(Univ. de Oviedo, Spain)

p.51 The Application of PROMELA and SPIN in the BOS Project.
Pim Kars (Twente Univ., The Netherlands)

p.60 Modeling and verification of the ITU-T multipoint communication service with SPIN.
P. Merino, J.M. Troya (Univ. de Malaga, Spain)

p.72 Creating Implementations from PROMELA Models.
Siegfried Loeffler (Hewlett-Packard, Bristol, England),
Ahmed Serhouchi (ENST, Ecole Nationale Superieure des Telecommunications,
Paris, France)

p.81 On Nested Depth-First Search.
Gerard J. Holzmann, Doron Peled, Mihalis Yannakakis (Bell Labs, USA)

p.90 State space compression in SPIN with GETSs.
Jean-Charles Gregoire (INRS, Univ. de Quebec, Canada)

p.109 Protocol verification with Reactive PROMELA/RSPIN
Elie Najm (ENST, Ecole Nationale Superieure des Telecommunications,
Paris, France),
Frank Olsen (CNET, Centre National d’Edtudes des Telecommunications,
Issy-Les-Moulineaux, France)

p.129 Implementing and Verifying Scenario-Based specifications using PROMELA/SPIN.
Stefan Leue (Univ. Waterloo, Canada), Peter Ladkin (Univ. Bielefeld, Germany)
Simulation and Validation Tool for self-stabilizing protocols.
Sandeep Shukla, Daniel J. Rosenkrantz, S.S. Ravi (Univ. at Albany, NY, USA)

Not Checking for Closure Under Stuttering.
Gerard J. Holzmann, Orna Kupferman (Bell Labs, USA)

Demos

D1. The Wheel environment for SPIN.
F.J. Lin (Bellcore, USA)

D2. Real-Time SPIN.
Stavros Tripakis (Verimag/Univ. of Grenoble, France)

D3. PROMELA2C Translator.
Siegfried Loeffler (Hewlett-Packard, Bristol, England)

D4. RSPIN.
Frank Olsen (CNET, Centre National d'Edtudes des Telecommunications,
Issy-Les-Moulineaux, France)

Complementary Material

p.171 Exploration of the syntactical modeling capabilities in PROMELA/SPIN of
synergestic distributed systems based on any type of omega-automata.
Charles R. Paez, and J.N. Ruiz (Univ. of Los Andes, Venezuela)

p.175 Outline for an operational semantics definition of PROMELA.
V. Natarajan (North Carolina State University), and
Gerard J. Holzmann (Bell Labs, USA).