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This book constitutes the refereed proceedings of the 7th International Conference of B Users, B 2007, held in Besançon, France in January 2007.   The 30 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from numerous submissions. The topics of interest to the conference included: industrial applications and case studies using B, integration of model-based specification methods in the software development lifecycle, derivation of hardware-software architecture from model-based specifications, expressing and validating requirements through formal models, in particular verifying security policies, theoretical issues in formal development, model-based software testing, tools supporting the B method, development by composition of specifications, validation of assembly of COTS by model-based specification methods, B extensions and/or standardization.

Invited Talks E-Voting and the Need for Rigourous Software Engineering - The Past, Present and Future Using B Machines for Model-Based Testing of Smartcard Software The Design of SpacecraR On-Board SoftwareRegular Papers Interpreting Invariant Composition in the B Method Using the Spec# Ownership Relation: A Way to Explain and Relax B Restrictions Chorus Angelorum Augmenting B with Control Annotations Justifications for the Event-B Modelling Notation Automatic Translation from Combined B and CSP Specification to Java Programs Symmetry Reduction for B by Permutation Flooding Instantiation of Parameterized Data Structures for Model-Based Testing Verification of LTL on B Event Systems Patterns for B: Bridging Formal and Informal Development Time Constraint Patterns for Event B Development Modelling and Proof Analysis of Interrupt Driven Scheduling Refinement of Statemachines Using Event B Semantics Formal Transformation of Platform Independent Models into Platform Specific Models Refinement of EB3 Process Patterns into B Specifications, Security Policy Enforcement Through Refinement Process Integration of Security Policy into System ModelingIndustrial Papers Experiences in Using B and UML in Industrial Development B in Large-Scale Projects: The Canarsie Line CBTC Experience A Tool for Firewall Administration The B-Method for the Construction of Microkernel-Based Systems Hardware Verification and Beyond: Using B at AWETool Papers A JAG Extension for Verifying ITI Properties on R Event Systems ……Invited TalkAuthor Index

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