

1. Record Nr.	UNINA9910484970803321
Titolo	Logic, computation and rigorous methods : essays dedicated to Egon Borger on the occasion of his 75th birthday / / Alexander Raschke, Elvinia Riccobene, Klaus-Dieter Schewe (editors)
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-76020-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XVI, 353 p. 122 illus., 75 illus. in color.)
Collana	Lecture Notes in Computer Science ; ; 12750
Disciplina	160
Soggetti	Logic Computer science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	From Logic and Computation Theory to Rigorous Methods for Software Engineering -- Towards Leveraging Domain Knowledge in State-Based Formal Methods -- Some Observations on Mitotic Sets -- Moded and Continuous Abstract State Machines -- A Stepwise Design Optimization Problem -- Semantic Splitting of Conditional Belief Bases -- Communities and Ancestors Associated with Egon Börger and ASM -- Language and communication problems in formalization: a natural language approach -- ASM Specification and Refinement of a Quantum Algorithm -- Spot the Difference: A Detailed Comparison Between B and Event-B -- Some Thoughts on Computational Models: From Massive Human Computing to Abstract State Machines, and Beyond -- Analysis of Mobile Networks' Protocols Based on Abstract State Machines -- What is the Natural Abstraction Level of an Algorithm -- The ASMETA approach to safety assurance of software systems -- Flashix: Modular Verification of a Concurrent and Crash-Safe Flash File System -- Computation on Structures: Behavioural Theory, Logic, Complexity -- The Combined Use of the Web Ontology Language (OWL) and Abstract State Machines (ASM) for the Definition of a Specification Language for Business Processes -- Models and Modelling in Computer Science -- A Framework for Modeling the Semantics of Synchronous and Asynchronous Procedures with Abstract State Machines.

This Festschrift was published in honor of Egon Börger on the occasion of his 75th birthday. It acknowledges Prof. Börger's inspiration as a scientist, author, mentor, and community organizer. Dedicated to a pioneer in the fields of logic and computer science, Egon Börger's research interests are unusual in scope, from programming languages to hardware architectures, software architectures, control systems, workflow and interaction patterns, business processes, web applications, and concurrent systems. The 18 invited contributions in this volume are by leading researchers in the areas of software engineering, programming languages, business information systems, and computer science logic.
