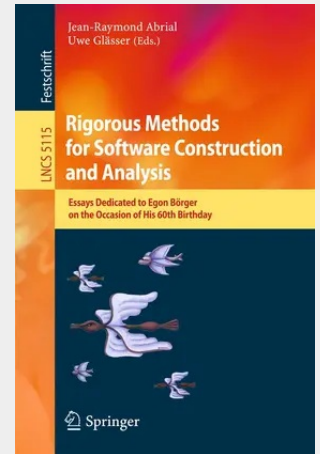


Rigorous Methods for Software Construction and Analysis

Essays Dedicated to Egon Börger on the Occasion of His 60th Birthday

Egon Börger Tribute to Egon Börger on the Occasion of his 60th Birthday 1 2 Jean-Raymond Abrial and Uwe Glässer 1 jrabrial@neuf.fr 2 glaesser@cs.sfu.ca Egon Börger was born on May 13, 1946, in Westfalia (Germany). After the classical baccalauréat, from 1965-1971 he studied philosophy, logic and mathematics at the Sorbonne (Paris, France), Institut Supérieur de Philosophie de Louvain (Belgium), Université de Louvain and Universität Münster (Germany), where he got his doctoral degree and in 1976 his "Habilitation" in mathematics. The themes of his doctoral dissertation, Reduction classes in Krom and Horn formulae, and of his "Habilitationsschrift," A simple method for determining the degree of unsolvability of decision problems for combinatorial systems, have their root in the computational view of mathematical logic held at the time at the Institute for Logic and Foundations of Mathematics at the University of Münster, a tradition going back to (among others) Leibniz, Ackermann, Gödel, Post, Turing, Kleene, and associated in Münster with the names of the founder of the institute, Heinrich Scholz, and his followers Hans Hermes, Gisbert Hasenjaeger and Dieter Rüdding. This heritage determined the focus of Börger's logical investigations in what nowadays is called computability and computational complexity theory and his early interest in applying methods from logic to solve problems in computer science.

This Festschrift volume, published in honor of Egon Börger, contains 14 papers from a Dagstuhl Seminar, which was organized as a "Festkolloquium" on the occasion of his 60th birthday in May 2006. Focusing on applied formal methods, the volume covers a wide range of applied research, spanning from theoretical and methodological foundations to practical applications of Abstract State Machines, B, and beyond, emphasizing universal methods and tools that, regardless of their applicational orientation, are still committed to the ideal of mathematical rigor. In particular, the papers address the following central topics: methodological foundations of requirements specification and verification, characterization of specification languages and their logical foundations, advanced tool environments and systematic integration of tools, machine assisted validation and verification, distributed algorithms and concurrent protocols, novel applications in public safety, security and privacy, industrial case studies and experience reports, and the role of formal methods in computer science education.



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