

1. Record Nr.	UNISA996465867103316
Titolo	Formal Methods for Components and Objects [[electronic resource]] : Third International Symposium, FMCO 2004, Leiden, The Netherlands, November 2-5, 2004, Revised Lectures // edited by Frank S. de Boer, Marcello M. Bonsangue, Susanne Graf, Willem-Paul de Roever
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (VIII, 328 p.)
Collana	Programming and Software Engineering ; ; 3657
Disciplina	005.13/1
Soggetti	Software engineering Programming languages (Electronic computers) Computer logic Operating systems (Computers) Software Engineering/Programming and Operating Systems Software Engineering Programming Languages, Compilers, Interpreters Logics and Meanings of Programs Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Theory of Predicate-Complete Test Coverage and Generation -- A Perspective on Component Refinement -- A Fully Abstract Semantics for UML Components -- From (Meta) Objects to Aspects: A Java and AspectJ Point of View -- MoMo: A Modal Logic for Reasoning About Mobility -- Probabilistic Linda-Based Coordination Languages -- Games with Secure Equilibria, -- Priced Timed Automata: Algorithms and Applications -- rCOS: Refinement of Component and Object Systems -- Program Generation and Components -- Assertion-Based Encapsulation, Object Invariants and Simulations -- A Dynamic Binding Strategy for Multiple Inheritance and Asynchronously Communicating Objects -- Observability, Connectivity, and Replay in a Sequential Calculus of Classes -- Timing Analysis and Timing Predictability.

Sommario/riassunto

Formal methods have been applied successfully to the verification of medium-sized programs in protocol and hardware design. However, their application to the development of large systems requires more emphasis on specification, modelling and validation techniques supporting the concepts of reusability and modifiability, and their implementation in new extensions of existing programming languages. This book presents revised tutorial lectures given by invited speakers at the Third International Symposium on Formal Methods for Components and Objects, FMCO 2004, held in Leiden, The Netherlands, in November 2004. The 14 revised lectures by leading researchers present a comprehensive account of the potential of formal methods applied to large and complex software systems such as component-based systems and object systems. The book provides a unique combination of ideas on software engineering and formal methods that reflect the expanding body of knowledge on modern software systems.

2. Record Nr.	UNINA9910484141703321
Titolo	Horizons of the Mind. A Tribute to Prakash Panangaden : Essays Dedicated to Prakash Panangaden on the Occasion of His 60th Birthday // edited by Franck van Breugel, Elham Kashefi, Catuscia Palamidessi, Jan Rutten
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-06880-6
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XVIII, 499 p. 36 illus.) : online resource
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 8464
Disciplina	005.1015113
Soggetti	Computer science Machine theory Computer science—Mathematics Mathematical statistics Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Probability and Statistics in Computer Science Theory of Computation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	<p>Layout Randomization and Nondeterminism -- Probabilistic Model Checking of Labelled Markov Processes via Finite Approximate Bisimulations -- An Operational Interpretation of Negative Probabilities and No-Signalling Models -- Bisimulation on Markov Processes over Arbitrary Measurable Spaces -- Probabilistic Model Checking for Energy-Utility Analysis -- (Co)Algebraic Characterizations of Signal Flow Graphs -- Fractal Sets as Final Coalgebras Obtained by Completing an Initial Algebra -- Leaving Traces: A Note on a Sound and Complete Trace Logic for Concurrent Constraint Programs -- Privacy from Accelerating Eavesdroppers: The Impact of Losses -- The Complexity of Computing a Bisimilarity Pseudometric on Probabilistic Automata -- From Haar to Lebesgue via Domain Theory -- Word Order Alternation in Sanskrit via Precyclicity in Pregroup Grammars -- The Logic of Entanglement -- Free Energy of Petri Nets -- Laudatio for Prakash Panangaden -- Generalized Differential Privacy: Regions of Priors That Admit Robust Optimal Mechanisms -- Bisimulation for Markov Decision Processes through Families of Functional Expressions -- Random Measurable Selections -- A Final Coalgebra for k-regular Sequences -- Automata Learning: A Categorical Perspective -- Optimal Coin Flipping -- Entanglement, Flow and Classical Simulatability in Measurement Based Quantum Computation -- Euclidean Representations of Quantum States -- TCC, with History -- Probabilistic and Quantum Event Structures.</p>
Sommaro/riassunto	<p>This Festschrift volume contains papers presented at a conference, Prakash Fest, held in honor of Prakash Panangaden, in Oxford, UK, in May 2014, to celebrate his 60th birthday. Prakash Panangaden has worked on a large variety of topics including probabilistic and concurrent computation, logics and duality and quantum information and computation. Despite the enormous breadth of his research, he has made significant and deep contributions. For example, he introduced logic and a real-valued interpretation of the logic to capture equivalence of probabilistic processes quantitatively. The 25 papers included in this volume were carefully reviewed. They cover a large variety of topics in theoretical computer science.</p>