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Transformations -- From OBJ to Maude and Beyond -- Constructive Action Semantics in OBJ -- Horizontal Composability Revisited --Composition by Colimit and Formal Software Development -- Behaviour and Formal Languages -- Proving Behavioral Refinements of COLspecifications -- The Reactive Engine for Modular Transducers -- A Bialgebraic Review of Deterministic Automata, Regular Expressions and Languages -- Sheaves and Structures of Transition Systems -- Uniform Functors on Sets -- An Algebraic Approach to Regular Sets -- Models, Deduction, and Computation -- Elementary Algebraic Specifications of the Rational Complex Numbers -- From Chaos to Undefinedness --Completion Is an Instance of Abstract Canonical System Inference --Eliminating Dependent Pattern Matching -- Iterative Lexicographic Path Orders -- A Functorial Framework for Constraint Normal Logic Programming -- A Stochastic Theory of Black-Box Software Testing --Some Tips on Writing Proof Scores in the OTS/CafeOBJ Method -- Drug Interaction Ontology (DIO) and the Resource-Sensitive Logical Inferences.

## Sommario/riassunto

Joseph Goguen is one of the most prominent computer scientists worldwide. His numerous research contributions span many topics and have changed the way we think about many concepts. Our views about data types, programming languages, software specification and verification, computational behavior, logics in computer science, semiotics, interface design, multimedia, and consciousness, to mention just some of the areas, have all been enriched in fundamental ways by his ideas. This Festschrift volume - published to honor Joseph Goquen on his 65th Birthday on June 28, 2006 - includes 32 refereed papers by leading researchers in the different areas spanned by Joseph Goquen's work. The papers address a broad variety of topics from meaning. meta-logic, specification and composition, behavior and formal languages, as well as models, deduction, and computation. The papers were presented at a Symposium in San Diego, California, USA in June 2006. Both the Festschrift volume and the Symposium allow the articulation of a retrospective and prospective view of a range of related research topics by key members of the research community in computer science and other fields connected with Joseph Goguen's work.