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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 240
Disciplina	005.1015113
Soggetti	Computer logic Computer programming Logics and Meanings of Programs Programming Techniques
Lingua di pubblicazione	Inglese
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Categories -- Elements of categorical reasoning : Products and coproducts and some other (co-)limits -- Functors and natural transformations -- Adjunctions -- Cartesian closure — Higher types in categories -- Algebra categorically -- Category theory and logic -- Categories, data types, and imperative languages -- Category theory and programming language semantics: An overview -- Weakest preconditions: Categorical insights -- A categorical view of weakest liberal preconditions -- Functor-category semantics of programming languages and logics -- Finite approximation of spaces -- Categories of partial morphisms and the λ P-calculus -- A note on distributive laws and power domains -- Category theory and models for parallel computation -- Categorical models of process cooperation -- Galois connections and computer science applications -- A study in the foundations of programming methodology: Specifications, institutions, charters and parchments -- Bits and pieces of the theory of institutions -- Extended ML: An institution-independent framework for formal program development -- Behavioural program specification -- Key extensions of abstract data types, final algebras, and database

semantics -- Theories as categories -- Internal completeness of
categories of domains -- Formalising the network and hierarchical data
models — an application of categorical Logic -- A categorical
unification algorithm -- Computing with categories.
