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   Disciplina   511.3

   Soggetti   Mathematical analysis
   Analysis (Mathematics)
   Mathematical logic
   Computer logic
   Computer programming
   Programming languages (Electronic computers)
   Analysis
   Mathematical Logic and Foundations
   Mathematical Logic and Formal Languages
   Logics and Meanings of Programs
   Programming Techniques
   Programming Languages, Compilers, Interpreters

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   Livello bibliografico   Monografia

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   Nota di contenuto   Invited Lectures -- Many Happy Re urns -- From Bounded Arithmetic to Memory Management: Use of Type Theory to Capture Complexity Classes and Space Behaviour -- Definability of Total Objects in PCF and Related Calculi -- Categorical Semantics of Control -- Contributed Papers -- Representations of First Order Function Types as Terminal Coalgebras -- A Finitary Subsystem of the Polymorphic ?-Calculus -- Sequentiality and the ?-Calculus -- Logical Properites of Name Restriction -- Subtyping Recursive Games -- Typing Lambda Terms in Elementary Logic with Linear Constraints -- Ramied Recurrence with

Dependent Types -- Game Semantics for the Pure Lazy ?-Calculus -- Reductions, intersection types, and explicit substitutions -- The Stratified Foundations as a Theory Modulo -- Normalization by Evaluation for the Computational Lambda-Calculus -- Induction Is Not Derivable in Second Order Dependent Type Theory -- Strong Normalization of Classical Natural Deduction with Disjunction -- Partially Additive Categories and Fully Complete Models of Linear Logic -- Distinguishing Data Structures and Functions: The Constructor Calculus and Functorial Types -- The Finitely Generated Types of the ?-Calculus -- Deciding Monadic Theories of Hyperalgebraic Trees -- A Deconstruction of Non-deterministic Classical Cut Elimination -- A Token Machine for Full Geometry of Interaction (Extended Abstract) -- Second-Order Pre-logical Relations and Representation Independence -- Characterizing Convergent Terms in Object Calculi via Intersection Types -- Parigot's Second Order ??-Calculus and Inductive Types -- The Implicit Calculus of Constructions Extending Pure Type Systems with an Intersection Type Binder and Subtyping -- Evolving Games and Essential Nets for Affine Polymorphism -- Retracts in Simple Types -- Parallel Implementation Models for the ?-Calculus Using the Geometry of Interaction (Extended Abstract) -- The complexity of ?-reduction in low orders -- Strong Normalisation for a Gentzen-like Cut-Elimination Procedure.

| Sommario/riassunto | This book constitutes the refereed proceedings of the 5th International Conference on Typed Lambda Calculi and Applications, TLCA 2001, held in Krakow, Poland in May 2001. The 28 revised full papers presented were carefully reviewed and selected from 55 submissions. The volume reports research results on all current aspects of typed lambda calculi. Among the topics addressed are type systems, subtypes, coalgebraic methods, pi-calculus, recursive games, various types of lambda calculi, reductions, substitutions, normalization, linear logic, cut-elimination, prelogical relations, and mu calculus. |