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Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XI, 567 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5771
Classificazione	DAT 540f DAT 706f SS 4800
Disciplina	004.015113
Soggetti	Artificial intelligence Mathematical logic Machine theory Computer science Computer science—Mathematics Coding theory Information theory Artificial Intelligence Mathematical Logic and Foundations Formal Languages and Automata Theory Computer Science Logic and Foundations of Programming Symbolic and Algebraic Manipulation Coding and Information Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Invited Talks -- Algebra for Tree Languages -- Forcing and Type Theory -- Functional Interpretations of Intuitionistic Linear Logic -- Fixed-Point Definability and Polynomial Time -- Special Invited Talk to Commemorate the Centenary of Stephen Cole Kleene -- Kleene's Amazing Second Recursion Theorem -- Contributed Papers -- Typed

Applicative Structures and Normalization by Evaluation for System F ?  
-- Jumping Boxes -- Tree-Width for First Order Formulae --  
Algorithmic Analysis of Array-Accessing Programs -- Decidable  
Relationships between Consistency Notions for Constraint Satisfaction  
Problems -- Cardinality Quantifiers in MLO over Trees -- From  
Coinductive Proofs to Exact Real Arithmetic -- On the Relation between  
Sized-Types Based Termination and Semantic Labelling -- Expanding  
the Realm of Systematic Proof Theory -- EXPTIME Tableaux for the  
Coalgebraic  $\lambda$ -Calculus -- On the Word Problem for  $\lambda$ -Categories, and  
the Properties of Two-Way Communication -- Intersection, Universally  
Quantified, and Reference Types -- Linear Game Automata: Decidable  
Hierarchy Problems for Stripped-Down Alternating Tree Automata --  
Enriching an Effect Calculus with Linear Types -- Degrees of  
Undecidability in Term Rewriting -- Upper Bounds on Stream I/O Using  
Semantic Interpretations -- Craig Interpolation for Linear Temporal  
Languages -- On Model Checking Boolean BI -- Efficient Type-  
Checking for Amortised Heap-Space Analysis -- Deciding the Inductive  
Validity of  $\lambda$  Queries -- On the Parameterised Intractability of  
Monadic Second-Order Logic -- Automatic Structures of Bounded  
Degree Revisited -- Nondeterminism and Observable Sequentiality -- A  
Decidable Spatial Logic with Cone-Shaped Cardinal Directions --  
Focalisation and Classical Realisability -- Decidable Extensions of  
Church's Problem -- Nested Hoare Triples and Frame Rules for Higher-  
Order Store -- A Complete Characterization of Observational  
Equivalence in Polymorphic  $\lambda$ -Calculus with General References -- Non-  
Commutative First-Order Sequent Calculus -- Model Checking FO(R)  
over One-Counter Processes and beyond -- Confluence of Pure  
Differential Nets with Promotion -- Decision Problems for Nash  
Equilibria in Stochastic Games -- On the Complexity of Branching-Time  
Logics -- Nominal Domain Theory for Concurrency -- The Ackermann  
Award 2009.

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### Sommario/riassunto

The annual conference of the European Association for Computer Science Logic (EACSL), CSL 2009, was held in Coimbra (Portugal), September 7–11, 2009. The conference series started as a programme of International Workshops on Computer Science Logic, and then at its sixth meeting became the Annual Conference of the EACSL. This conference was the 23rd meeting and 18th EACSL conference; it was organized at the Department of Mathematics, Faculty of Science and Technology, University of Coimbra. In response to the call for papers, a total of 122 abstracts were submitted to CSL 2009 of which 89 were followed by a full paper. The Programme Committee selected 34 papers for presentation at the conference and publication in these proceedings. The Ackermann Award is the EACSL Outstanding Dissertation Award for Logic in Computer Science. The award recipient for 2009 was Jakob Nordström. Citation of the award, abstract of the thesis, and a biographical sketch of the recipient may be found at the end of the proceedings. The award was sponsored for the years 2007–2009 by Logitech S.A.

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