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This book constitutes the refereed proceedings of the 18th International Workshop on Computer Science Logic, CSL 2004, held as the 13th Annual Conference of the EACSL in Karpacz, Poland, in September 2004.   The 33 revised full papers presented together with 5 invited contributions were carefully reviewed and selected from 88 papers submitted. All current aspects of logic in computer science are addressed ranging from mathematical logic and logical foundations to methodological issues and applications of logics in various computing contexts.

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Invited Lectures   Notions of Average-Case Complexity for Random 3-SAT   Abstract Interpretation of Proofs: Classical Propositional Calculus   Applications of Craig Interpolation to Model Checking   Bindings, Mobility of Bindings, and the V-Quantifier: An Abstract   My (Un)Favourite ThingsRegular Papers   On Nash Equilibria in Stochastic Games   A Bounding Quantifier   Parity and Exploration Games on Infinite Graphs   Integrating Equational Reasoning into Instantiation-Based   Theorem Proving   Goal-Directed Methods for Lukasiewicz Logic   A General Theorem on Termination of Rewriting   Predicate Transformers and Linear Logic: Yet Another   Denotational Model   Structures for Multiplicative Cyclic Linear Logic: Deepness vs Cyclicity   On Proof Nets for Multiplicative Linear Logic with Units   The Boundary Between Decidability and Undecidability for   Transitive-Closure Logics   Game-Based Notions of Locality over Finite Models   Fixed Points of Type Constructors and Primitive Recursion   On the Building of Ai~ne Retractions   Higher-Order Matching in the Linear ~-Calculus with Pairing   A Dependent Type Theory with Names and Binding   Towards Mechanized Program Verification with Separation Logic   A Functional Scenario for Bytecode Verification of Resource Bounds   Proving Abstract Noninterference   Intuitionistic LTL and a New Characterization of Safety and Liveness   Moving in a Crumbling Network: The Balanced Case   Parameterized Model Checking of RingBased Message Passing Systems   A Third Order Bounded Arithmetic Theory for PSPACE.   ……Author Index

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