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Nota di contenuto	Invited Presentations -- Interactive Mathematical Documents -- Algebra and Geometry -- An Inductive Inference System and Its Rationality -- Semantic Guidance for Saturation Provers -- Contributed Papers -- Labeled @-Calculus: Formalism for Time-Concerned Human Factors -- Enhanced Theorem Reuse by Partial Theory Inclusions -- Extension of First-Order Theories into Trees -- The Confluence Problem for Flat TRSs -- Some Properties of Triangular Sets and Improvement Upon Algorithm CharSer -- A New Definition for Passivity and Its Relation to Coherence -- A Full System of Invariants for Third-

Order Linear Partial Differential Operators -- An Algorithm for Computing the Complete Root Classification of a Parametric Polynomial -- Quantifier Elimination for Quartics -- On the Mixed Cayley-Sylvester Resultant Matrix -- Implicitization of Rational Curves -- Operator Calculus Approach to Solving Analytic Systems -- Solving Dynamic Geometric Constraints Involving Inequalities -- Constraints for Continuous Reachability in the Verification of Hybrid Systems -- Using Hajós' Construction to Generate Hard Graph 3-Colorability Instances -- Finding Relations Among Linear Constraints -- A Search Engine for Mathematical Formulae -- Hierarchical Representations with Signatures for Large Expression Management.

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#### Sommario/riassunto

Here are the refereed proceedings of the 8th International Conference on Artificial Intelligence and Symbolic Computation, AISC 2006. The book presents 18 revised full papers together with 4 invited papers, organized in topical sections on artificial intelligence and theorem proving, symbolic computation, constraint satisfaction/solving, and mathematical knowledge management. Coverage includes mathematical foundations, implementations, and applications in industry and academia.

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