

<<人工智能和符号计算/ Artificiali>>

图书基本信息

书名：<<人工智能和符号计算/ Artificial intelligence and symbolic computation>>

13位ISBN编号：9783540397281

10位ISBN编号：3540397280

出版时间：2006-12

出版时间：湖北辞书出版社

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页数：268

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内容概要

This book constitutes the refereed proceedings of the 8th International Conference on Artificial Intelligence and Symbolic Computation, AISC 2006, held in Beijing, China in September 2006. The 18 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 39 submissions. Based on heuristics and mathematical algorithmics, artificial intelligence and symbolic computation are two views and approaches for automating (mathematical) problem solving. The papers address all current aspects in the area of symbolic computing and AI: mathematical foundations, implementations, and applications in industry and academia. The papers are organized in topical sections on artificial intelligence and theorem proving, symbolic computation, constraint satisfaction/solving, and mathematical knowledge management.

书籍目录

Invited Presentations Interactive Mathematical Documents Algebra and Geometry Interaction Between "Equations" and "Shapes". An Inductive Inference System and Its Rationality Semantic Guidance for Saturation ProversContributed PapersArtificial Intelligence and Theorem Proving 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 TRSsSymbolic Computation 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 SystemsConstraint Satisfaction/Solving Solving Dynamic Geometric Constraints Involving Inequalities Constraints for Continuous Reachability in the Verification of Hybrid Systems Using Hajds' Construction to Generate Hard Graph 3-Colorability Instances Finding Relations Among Linear ConstraintsMathematical Knowledge Management A Search Engine for Mathematical Formulae Hierarchical Representations with Signatures for Large Expression ManagementAuthor Index

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