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Soggetti	Artificial intelligence Information storage and retrieval Logic, Symbolic and mathematical Computer science—Mathematics Database management Computer science - Mathematics Artificial Intelligence Information Storage and Retrieval Mathematical Logic and Formal Languages Symbolic and Algebraic Manipulation Database Management Computational Mathematics and Numerical Analysis
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Nota di contenuto	Regular Contributions -- Digitisation, Representation, and Formalisation Digital Libraries of Mathematics -- MKM from Book to Computer: A Case Study -- From Proof-Assistants to Distributed Libraries of Mathematics: Tips and Pitfalls -- Managing Digital Mathematical Discourse -- NAG Library Documentation -- On the Roles of LATEX and MathML in Encoding and Processing Mathematical Expressions -- Problems and Solutions for Markup for Mathematical Examples and Exercises -- An Annotated Corpus and a Grammar Model of Theorem Description -- A Query Language for a Metadata

Framework about Mathematical Resources -- Information Retrieval in MML -- An Expert System for the Flexible Processing of XML -Based Mathematical Knowledge in a PROLOG—Environment -- Towards Collaborative Content Management and Version Control for Structured Mathematical Knowledge -- On the Integrity of a Repository of Formalized Mathematics -- A Theoretical Analysis of Hierarchical Proofs -- Comparing Mathematical Provers -- Translating Mizar for First Order Theorem Provers -- Invited Talk -- The Mathematical Semantic Web.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second International Conference on Mathematical Knowledge Management, MKM 2003, held in Betinoro, Italy, in February 2003. The 16 revised full papers presented together with an invited paper were carefully reviewed and selected for presentation. Among the topics addressed are digitization, representation, formalization, proof assistants, distributed libraries of mathematics, NAG library, LaTeX, MathML, mathematics markup, theorem description, query languages for mathematical metadata, mathematical information retrieval, XML-based mathematical knowledge processing, semantic Web, mathematical content management, formalized mathematics repositories, theorem proving, and proof theory.
