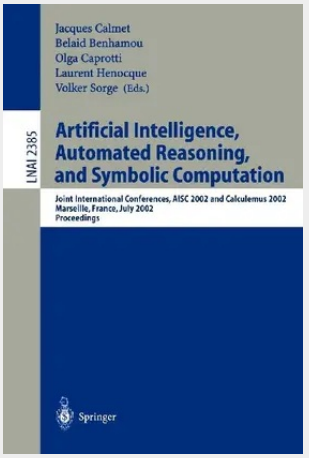
Calmet / Benhamou / Caprotti

Artificial Intelligence, Automated Reasoning, and Symbolic Computation

Joint International Conferences, AISC 2002 and Calculemus 2002 Marseille, France, July 1-5, 2002 Proceedings



AISC 2002, the 6th international conference on Arti?cial Intelligence and S- bolic Computation, and Calculemus 2002, the 10th symposium on the Integ- tion of Symbolic Computation and Mechanized Reasoning, were held jointly in Marseille, France on July 1–5, 2002. This event was organized by the three universities in Marseille together with the LSIS (Laboratoire des Sciences de l'Information et des Syst` emes). AISC 2002 was the latest in a series of specialized conferences founded by John Campbell and Jacques Calmet with the initial title "Arti?cial Intelligence and Symbolic Mathematical Computation" (AISMC) and later denoted "Art- cial Intelligence and Symbolic Computation" (AISC). The scope is well de?ned by its successive titles. AISMC-1 (1992), AISMC-2 (1994), AISMC-3 (1996), AISC'98, and AISC 2000 took place in Karlsruhe, Cambridge, Steyr, Plattsburgh (NY), and Madrid respectively. The proceedings were published by Springer-Verlag as LNCS 737, LNCS 958, LNCS 1138, LNAI 1476, and LNAI 1930 respectively. Calculemus 2002 was the 10th symposium in a series which started with three meetings in 1996, two meetings in 1997, and then turned into a yearly event in 1998. Since then, it has become a tradition to hold the meeting jointly with an event in either symbolic computation or automated deduction. Both events share common interests in looking at Symbolic Computation, each from a di?erent point of view: Arti?cial Intelligence in the more general case of AISC and Automated Deduction in the more speci?c case of Calculemus.

Invited Talks.- Constraint Acquisition.- Expressiveness and Complexity of Full First-Order Constraints in the Algebra of Trees.- Deduction versus Computation: The Case of Induction.- Integration of Quantifier Elimination with Constraint Logic Programming.- AISC Regular Talks.- Towards a Hybrid Symbolic/Numeric Computational Approach in Controller Design.- Inductive Synthesis of Functional Programs.- A Symbolic Computation-Based Expert System for Alzheimer's Disease Diagnosis.- On a Generalised Logicality Theorem.- Using Symbolic Computation in an Automated Sequent Derivation System for Multi-valued Logic.- The Wright ? Function.- Multicontext Logic for Semigroups of Contexts.- Indefinite Integration as a Testbed for Developments in Multi-agent Systems.- Expression Inference - Genetic Symbolic Classification Integrated with Non-linear Coefficient Optimisation.- A Novel Face Recognition Method.- Non-commutative Logic for Hand-Written Character Modeling.- From Numerical to Symbolic Data during the Recognition of Scenarii.- On Mathematical Modeling of Networks and Implementation Aspects.- Continuous First-Order Constraint Satisfaction.- Coloring Algorithms for Tolerance Graphs: Reasoning and Scheduling with Interval Constraints.- A Genetic-Based Approach for Satisfiability Problems.- On Identifying Simple and Quantified Lattice Points in the 2SAT Polytope.- Calculemus Regular Talks.- Integrating Boolean and Mathematical Solving: Foundations, Basic Algorithms, and Requirements.- The Meaning of Infinity in Calculus and Computer Algebra Systems.- Making Conjectures about Maple Functions.- Employing Theory Formation to Guide Proof Planning.- Unification with Sequence Variables and Flexible Arity Symbols and Its Extension with Pattern-Terms.- Combining Generic and DomainSpecific Reasoning by Using Contexts.- Inductive Theorem Proving and Computer Algebra in the MathWeb Software Bus.- Yacas: A Do-It-Yourself Symbolic Algebra Environment.- Focus Windows: A New Technique for Proof Presentation.

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