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Nota di contenuto	Invited Talks -- Termination by Abstraction -- Answer Set Programming and the Design of Deliberative Agents -- Regular Talks -- Abstract Domains Based on Regular Types -- Termination of Logic Programs Using Various Dynamic Selection Rules -- Improving Prolog Programs: Refactoring for Prolog -- Smodels with CLP and Its Applications: A Simple and Effective Approach to Aggregates in ASP -- The Refined Operational Semantics of Constraint Handling Rules --

Compiling Ask Constraints -- Constraint Handling Rules and Tabled Execution -- Possible Worlds Semantics for Probabilistic Logic Programs -- Limiting Resolution: From Foundations to Implementation -- Generalised Kernel Sets for Inverse Entailment -- On Programs with Linearly Ordered Multiple Preferences -- Splitting an Operator -- Simplifying Logic Programs Under Answer Set Semantics -- On Acyclic and Head-Cycle Free Nested Logic Programs -- Fast Query Evaluation with (Lazy) Control Flow Compilation -- Speculative Computations in Or-Parallel Tabled Logic Programs -- ?Prolog: A Logic Programming Language with Names, Binding and ?-Equivalence -- Implementation Results in Classical Constructive Negation -- On Hybridization of Local Search and Constraint Propagation -- Arc-Consistency + Unit Propagation = Lookahead -- The period Constraint -- Non-viability Deductions in Arc-Consistency Computation -- Compiling Prioritized Circumscription into Answer Set Programming -- Enhancing the Magic-Set Method for Disjunctive Datalog Programs -- Rectilinear Steiner Tree Construction Using Answer Set Programming -- Adding Domain Dependent Knowledge into Answer Set Programs for Planning -- Multi-agent Coordination as Distributed Logic Programming -- Logic Programs with Annotated Disjunctions -- Poster Presentations -- Abstract Interpretation-Based Mobile Code Certification -- Labeled Logic Programs -- Xcerpt and XChange -- Logic Programming Languages for Querying and Evolution on the Web -- Protein Folding Simulation in CCP -- Applying CLP to Predict Extra-Functional Properties of Component-Based Models -- Main Results of the OADymPPaC Project -- FDBG, the CLP Debugger Library of SICStus Prolog -- Development of Semantic Debuggers Based on Refinement Calculus -- A Tracer Driver to Enable Debugging, Monitoring and Visualization of CLP Executions from a Single Tracer -- Grid Service Selection with PDDL -- Concurrent Constraint Programming and Tree-Based Acoustic Modelling -- MProlog: An Extension of Prolog for Modal Logic Programming -- Probabilistic Choice Operators as Global Constraints: Application to Statistical Software Testing -- Constraint-Based Synchronization and Verification of Distributed Java Programs -- JmmSolve: A Generative Java Memory Model Implemented in Prolog and CHR -- Agent Oriented Logic Programming Constructs in Jinni 2004.

Sommario/riassunto

This volume contains the papers presented at the 20th International Conference on Logic Programming, held in Saint-Malo, France, September 6–10, 2004. Since the first meeting in this series, held in Marseilles in 1982, ICLP has been the premier international conference for presenting research in logic programming. This year, we received 70 technical papers from countries all over the world, and the Program Committee accepted 28 of them for presentation; they are included in this volume. A stand-by-your-poster session took place during the conference. It served as a forum for presenting work in a more informal and interactive setting. Abstracts of the 16 posters selected by the Program Committee are included in this volume as well. The conference program also included invited talks and invited tutorials. We were privileged to have talks by three outstanding researchers and excellent speakers: Nachum Dershowitz (Tel Aviv University, Israel) talked on Termination by Abstraction, Michael Gelfond (Texas Tech University, USA) on Answer Set Programming and the Design of Deliberative Agents, and Gérard Huet (INRIA, France) on Non-determinism Lessons. Two of the invited talks appear in these proceedings. The tutorials covered topics of high interest to the logic programming community: Ilkka Niemelä gave a tutorial on The Implementation of Answer Set Solvers, Andreas Podelskion Tree Automata in Program Analysis and Verification, and Guillermo R. Simari on Defeasible Logic Programming and

Belief Revision. Satellite workshops made the conference even more interesting. Six workshops collocated with ICLP 2004: – CICLOPS2004, Colloquium on Implementation of Constraint and Logic Programming Systems, organized by Manuel Carro. – COLOPS2004, 2nd International Workshop on Constraint & Logic Programming in Security, organized by Frank Valencia. – MultiCPL2004, 3rd International Workshop on Multiparadigm Constraint, organized by Petra Hofstedt. – Teach LP2004, 1st International Workshop on Teaching Logic Programming, organized by Dietmar Seipel.
