

Preface

Logics have, for many years, laid claim to providing a formal basis for the study and development of applications and systems in artificial intelligence. With the depth and maturity of formalisms, methodologies and logic-based systems today, this claim is stronger than ever. The European Conference on Logics in Artificial Intelligence (or Journées Européennes sur la Logique en Intelligence Artificielle, JELIA) began back in 1988, as a workshop, in response to the need for a European forum for the discussion of emerging work in this field. Since then, JELIA has been organized biennially, with English as its official language, previous meetings taking place in Roscoff, France (1988), Amsterdam, Netherlands (1990), Berlin, Germany (1992), York, UK (1994), Evora, Portugal (1996), Dagstuhl, Germany (1998), Málaga, Spain (2000) and Cosenza, Italy (2002). The increasing interest in this forum, its international level with growing participation from researchers outside Europe, and the overall technical quality have turned JELIA into a major biennial forum for the discussion of logic-based approaches to artificial intelligence.

The 9th European Conference on Logics in AI, JELIA 2004, took place in Lisbon, Portugal, between the 27th and the 30th of September 2004, and was hosted by the Universidade Nova de Lisboa. Its technical program comprised 3 invited talks, by Francesca Rossi, Franz Baader, and Bernhard Nebel, and the presentation of 52 refereed technical articles selected by the Program Committee among the 144 that were submitted, a number which in our opinion clearly indicates that the research area of logics in AI is one with a great and increasing interest.

It is our stance that the use of logics in AI will be further advanced if implemented logical-based systems receive appropriate exposure, implementation and testing methodologies are discussed by the community, and the performance and scope of applicability of these systems are presented and compared. To further promote this research, the JELIA 2004 technical programme also included a special session devoted to presentations and demonstrations of 15 implementations, selected among 25 submissions, for solving or addressing problems of importance to areas in the scope of JELIA.

We would like to thank the authors of all the 169 contributions that were submitted to JELIA 2004, the members of the Program Committee and the additional experts who helped on the reviewing process, for contributing and ensuring the high scientific quality of JELIA 2004.

Conference Organization

The conference was organized by the Departamento de Informática, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, under the auspices of the Portuguese Association for AI, APPIA.

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