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Solange Oliveira Rezende (Eds.)

Advances in Artificial Intelligence – IBERAMIA-SBIA 2006

2nd International Joint Conference:
10th Ibero-American Conference on AI
18th Brazilian AI Symposium
Ribeirão Preto, Brazil, October 23-27, 2006
Proceedings

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Preface

The Brazilian Artificial Intelligence (AI) community decided in 2004 to organize an International Joint Conference, joining IBERAMIA 2006 (the 10th Ibero-American Artificial Intelligence Conference), SBIA 2006 (the 18th Brazilian Artificial Intelligence Symposium), and SBRN 2006 (the 9th Brazilian Neural Networks Symposium). This decision was a consequence of the successful event organized in 2000, when the First International Joint Conference IBERAMIA/ SBIA 2000 (7th Ibero-American Artificial Intelligence Conference and 15th Brazilian Artificial Intelligence Symposium) occurred in Brazil. Moreover, in 2006 the artificial intelligence community celebrated the golden anniversary of the 1956 Dartmouth Conference that marked the beginning of artificial intelligence as a research field.

SBIA 2006 was the 18th conference of the SBIA conference series, which is the leading Brazilian conference for the presentation of AI research and applications. Since 1995, SBIA has become an international conference, with papers written in English, an international Program Committee, and proceedings published in Springer's *Lecture Notes in Artificial Intelligence* (LNAI) series.

IBERAMIA 2006 was the 10th conference of the IBERAMIA conference series, which has been one of the most suitable forums for Ibero-American AI researchers (from South and Central American countries, Mexico, Spain and Portugal) to present their results. Following the SBIA and EPIA (Portuguese Conference on AI) experiences, from IBERAMIA 1998 on, it has also become an international conference with proceedings published in Springer's LNAI series.

The International Joint Conference was held in Ribeirão Preto, Brazil, during October 23-27, 2006. The call for papers was very successful. In the registration phase, when the authors were asked to submit just the title and abstract of their papers, 281 submissions were received. In the second phase, 246 authors uploaded their full paper to be reviewed. These submissions came from 23 different countries¹, as shown in Table 1. After the revision process, 62 papers were accepted to be published in these proceedings.

In order to improve the overall quality of this joint conference, a double-blind reviewing procedure was adopted, and the acceptance rate was fixed around 25% of the submitted papers. A large group of reviewers from all content areas was set up to carry out the difficult and challenging work of selecting the papers. Every paper was evaluated by at least three reviewers, and ranked by the JEMS system. Whenever conflicts were found, open discussions among the reviewers were triggered and analyzed later to support our final decision.

The conference included keynote speeches, introductory and advanced tutorials by world-leading researchers, several workshops covering specific topics and a thesis and dissertation contest.

¹ In the case of several authors from different countries, we have considered the first author affiliation.

Table 1. IBERAMIA/SBIA 2006 Paper Submission Summary

Country	Registered	Submitted	Accepted
Argentina	15	14	3
Australia	1	1	1
Brazil	149	128	33
Chile	8	8	2
China	3	3	–
Colombia	1	–	–
Cuba	3	3	3
Ecuador	2	2	–
France	9	9	2
Germany	2	2	–
Italy	1	1	1
Korea	5	5	–
Malaysia	1	1	–
Mexico	44	37	8
Poland	2	2	–
Portugal	8	5	1
Spain	18	17	6
Taiwan	1	1	–
Turkey	2	2	–
UK	1	1	–
Uruguay	1	1	1
USA	1	–	–
Venezuela	3	3	1
Total	281	246	62

We would like to thank all the authors for submitting their papers, as well as all members of the Program Committee and the additional referees for their hard work. The high quality of the papers included in this volume would not be possible without their participation and diligence. We also gratefully acknowledge the help of our colleagues whose support in the organization of this conference was invaluable. Finally, we would like to express our gratitude to Alfred Hofmann and his staff at Springer for giving us again the opportunity to publish the proceedings in the LNAI series.

October 2006

Jaime Simão Sichman
Helder Coelho
Solange Oliveira Rezende

Organization

The International Joint Conference IBERAMIA/SBIA/SBRN 2006 was organized by several AI research groups that belong to the University of São Paulo (USP), Brazil:

1. Instituto de Ciências Matemáticas e de Computação (ICMC)
Departamento de Ciências de Computação (SCE)
Laboratório de Inteligência Computacional (LABIC)
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AEPIA	Asociación Española para Inteligencia Artificial
APPIA	Associação Portuguesa para Inteligência Artificial
SMIA	Sociedad Mexicana de Inteligencia Artificial

Sponsoring Institutions

The International Joint Conference 2006 had the financial support of the following Brazilian institutions:

FAPESP	Fundação de Amparo à Pesquisa do Estado de São Paulo
CNPq	Conselho Nacional de Pesquisa
CAPES	Coordenação de Aperfeiçoamento do Pessoal de Nível Superior
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