The International Federation for Information Processing (IFIP) was founded in 1960 under the auspices of UNESCO, following the first historical World Computer Congress held in Paris in 1959. The first AIAI conference (Artificial Intelligence Applications and Innovations) was organized in Toulouse, France, in 2004 by the IFIP. Since then, it has always been technically supported by the Working Group 12.5 “Artificial Intelligence Applications.” After 10 years of continuous presence, it has become a well-known and recognized mature event, offering AI scientists from all over the globe the chance to present their research achievements. The 11th AIAI was held in Bayonne/Biarritz, for a second time in France, during September 14–17, 2015. Previous events took place in Rhodes (2014), Paphos (2013), Chalkidiki (2012), Corfu (2011), Larnaca (2010), Thessaloniki (2009), Athens (2007), Athens (2006), Beijing (2005), and Toulouse (2004).

The 11th AIAI involved a lot of people including 107 PC members and 14 external reviewers (See Figure 1), all of whom were selected for their strong expertise and special interest in their respective research areas.

The following wide areas were included in the call for papers: Theoretical Advances, Knowledge Engineering, Multimedia, Graphics & AI, Signal Processing Techniques and Knowledge Extraction, AI Applications, and Trends in Computing. In the 11th AIAI conference, 81 papers were submitted and we are really gratified by the international diversity of this conference: authors of submitted work hail from no less than 24 countries (See Figure 2).
All papers went through a peer-review process by at least four independent academic reviewers. Where needed, a fifth reviewer was consulted to resolve any potential conflicts. The conference Program Committee had a very challenging task of choosing high-quality submissions. Out of all submissions, 35 papers were selected and accepted, based on the referee recommendations, for oral presentation and inclusion in the conference proceedings (See Figure 3), thus reaching an acceptance rate of around 43%.

Fig. 2. Countries of Submitted Papers.

Fig. 3. Countries of Accepted Papers in AIAI 2015.
Following a long-standing tradition, this Springer volume belongs to the IFIP AICT series and it contains the accepted papers that were presented orally at the AIAI 2015 conference. The diverse nature of the papers presented demonstrates the vitality of AI computing methods and proves the wide range of AI applications.

Three distinguished keynote speakers were invited to present a lecture at the 11th AIAI conference:

1. Prof. Hiroshi Iskikawa of the Tokyo Metropolitan University, Japan
2. Prof. Ernesto Damiani of the Università degli Studi di Milano, Italy
3. Prof. Panos Kalnis of King Abdullah University of Science and Technology, Saudi Arabia.

We would like to thank our invited speakers as well as our Honorary Chair and Advisory Committee, the Program Committee and Local Organizing Committee members and, finally, our external reviewers as well. They have all contributed to reaching this point. We are very grateful to several institutions and corporations for their sponsorship and assistance: University of Pau and Adour Countries, IUT de Bayonne et Pays Basque, ACM SIGAPP.fr, and LIUPPA. Finally, we hope that you will find these proceedings to be a valuable resource in your professional, research, and educational activities (whether you are a student, academic, researcher, or a practicing professional), and you will be highly motivated and stimulated for further research in the domain of AI in general.

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