## **Preface**

The goal of the Italian workshop series on Artificial Intelligence and RObotics (AIRO) is to present, discuss and assess recent advances in the deployment of Artificial Intelligence (AI) methods in Robotics. Indeed, AI principles and methods play a crucial role in several areas of the robotics research (e.g. field, service, social robotics, etc.) and are pervasively exploited at various levels of robot architectures for different purposes: sensing and perception, human-robot interaction, intelligent control, cognition, behavior and reasoning models, distributed knowledge representation and computational ontologies, engineering tools, software architectures, and fast-prototyping techniques, learning, real-time systems and robot morphology. Starting from these diverse research fields, the AIRO workshop series aim at providing an established long-term Italian forum where the AI community and the Robotics community may find an interesting and stimulating common ground. Specifically, this volume contains the proceedings of the second edition of the AIRO workshop<sup>1</sup>, which was held in Ferrara, Italy, the  $22^{nd}$  of September 2015. This edition of the AIRO workshop accepted 14 papers involving 56 authors from 6 countries. The contributions covered several aspects of AI and Robotics, mainly concerned with the following topics: social robotics and human-robot interaction, learning and robotics, multi-robot systems and cooperation with team of robots, robot architectures.

The program of the workshop was completed by the keynote talk by Prof. Emanuele Menegatti titled *Robot perception: from people tracking to neuro-robotics* and focussed on the robot perception topics investigated at the Intelligent Autonomous Systems Laboratory of the University of Padua.

Overall, the varieties of research topics and results collected in these proceedings reflects an intense and stimulating research activity along with a growing interest for a forum where the AI and Robotics communities can find a common ground.

Among the numerous people that contribute to the success of AIRO 2015, we would first of all thank the people that submitted their research paper to the workshop and attended to the event. Moreover, we sincerely thank the program committee for their important work on the reviewing process.

Alberto Finzi, Fulvio Mastrogiovanni, Andrea Orlandini, Antonio Sgorbissa Workshop Organizers

<sup>&</sup>lt;sup>1</sup> http://airo2015.istc.cnr.it

## **Program Committee**

Salvatore Maria Anzalone (Sorbonne University, Paris, France)
Alessandro Farinelli (Verona University, Verona, Italy)
Alberto Finzi (University of Napoli "Federico II", Naples, Italy)
Luca Iocchi (Sapienza University, Rome, Italy)
Serena Ivaldi (INRIA, Nancy, France)
Fulvio Mastrogiovanni (University of Genova, Genova, Italy)
Daniele Magazzeni (King's College, London, UK)
Daniele Nardi (Sapienza University, Rome, Italy)
AndreA Orlandini (ISTC-CNR, Rome, Italy)
Antonio Sgorbissa (University of Genova, Genova, Italy)