

## Preface

This volume contains the papers presented at AI<sup>3</sup> 2017<sup>1</sup>: the 1<sup>st</sup> Workshop on Advances In Argumentation In Artificial Intelligence, co-located with XVI International Conference of the Italian Association for Artificial Intelligence (AI\*IA 2017) held in Bari, on November 16-17, 2017.

Argumentation is the study of the processes and activities involving the production and exchange of arguments, where arguments are attempts to persuade someone or something by giving reasons for accepting a particular conclusion as evident. As such, argumentation provides procedures for making and explaining decisions and is able to capture diverse kinds of reasoning and dialogue activities in a formal but still intuitive way, enabling the integration of different specific techniques and the development of trustable applications.

For these reasons, over the last two decades formal argumentation has become a main research topic in Artificial Intelligence. Given that the study of argumentation is inherently interdisciplinary, the goal of the workshop was to stimulate discussions and promote scientific collaboration among researchers involved in the field of argumentation from different perspectives, including computational, linguistic, philosophical and psychological aspects.

The workshop aimed at bringing together researchers from the Italian community of argumentation, in order to give a group identity to several researchers in Italy (and Italian researchers abroad) both to discuss foundations and issues in argumentation and to present challenges and problems for which argumentation may represent a viable AI-paradigm. As a nice surprise, the workshop received particular attention from researchers outside Italy, who submitted several papers.

Each submission underwent a peer-review process. The workshop involved 13 papers accepted for oral presentation, an account of which is given in this volume.

Accepted papers dealt with various aspects of argumentation:

- Abstract argumentation,
- Structured argumentation,
- Dialogues, real world arguments and applications.

We would like to express our special thanks to the Program Committee members, the authors and all the attendees.

November 2017

*Chairs*  
Stefano Bistarelli  
Massimiliano Giacomin  
Andrea Paziienza

### Program and Conference Chairs

- Stefano Bistarelli (Università di Perugia)
- Massimiliano Giacomin (Università di Brescia)
- Andrea Paziienza (Università di Bari)

---

<sup>1</sup> <http://aiia2017.di.uniba.it/ai3-2017/>

## **Program Committee**

- Pietro Baroni (Università di Brescia)
- Federico Cerutti (University of Cardiff)
- Pierpaolo Dondio (Dublin Institute of Technology)
- Bettina Fazzinga (ICAR-CNR Napoli)
- Stefano Ferilli (Università di Bari)
- Sergio Flesca (Università della Calabria)
- Filippo Furfaro (Università della Calabria)
- Simone Gabbriellini (Università di Brescia)
- Floriana Grasso (University of Liverpool)
- Davide Grossi (University of Liverpool)
- Fabrizio Macagno (Universidade Nova de Lisboa)
- Marco Maratea (Università di Genova)
- Elena Musi (Columbia University)
- Fabio Paglieri (IST-CNR Roma)
- Francesco Parisi (Università della Calabria)
- Antonino Rotolo (Università di Bologna)
- Francesco Santini (Università di Perugia)
- Giovanni Sartor (Università di Bologna)
- Sara Tonelli (Fondazione Bruno Kessler (FBK))
- Francesca Toni (Imperial College London)
- Paolo Torroni (Università di Bologna)
- Mauro Vallati (University of Huddersfield)
- Serena Villata (Université Cote d'Azur, Inria, CNRS, I3S)