Preface

This volume contains the papers presented at AI^3 2019*: the 3rd Workshop on Advances In Argumentation In Artificial Intelligence, co-located with 18th International Conference of the Italian Association for Artificial Intelligence (AI∗IA 2019) held in Rende, on the 19th and 20th of November 2019. This workshop is promoted by the Argumentation in Artificial Intelligence Working Group**.

Argumentation is the study of processes and activities involving the production and exchange of arguments, where arguments are reasons for accepting or refuting a particular conclusion or claim. 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. 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 scholars from different disciplines, including computer science, philosophy, psychology, and computational linguistic. At its third edition, this workshop aims to bring together Italian researchers in Italy and abroad, and scholars from around the world to strengthen a group identity and shared interests in the field of argumentation. A wide set of topics were discussed during the workshop, including foundations in argumentation as well as challenges and real-world problems for which argumentation may represent a viable AI-paradigm.

Each submission underwent a single-blind peer-review process and each paper was reviewed by at least 3 reviewers. The workshop involved 13 papers accepted for oral presentation, an account of which is given in this volume, and an invited talk. These papers dealt with various aspects of argumentation including novel approaches for computing the acceptability of arguments, probabilisitic and dynamic argumentation, argument mining, collection and challenges with natural language argumentation, as well as practical applications and argument representation in real-world contexts.

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

November 2019

Chairs

Francesco Santini
Alice Toniolo

Program Chairs

Francesco Santini (University of Perugia)

Alice Toniolo (University of St Andrews)

---

*http://ai3-2019.dmi.unipg.it
**http://sites.google.com/a/aixia.it/argomentazione/

Steering Committee

Stefano Bistarelli (University of Perugia)

Massimiliano Giacomin (University of Brescia)

Program Committee

Gianvincenzo Alfano (Università della Calabria)

Pietro Baroni (Università di Brescia)

Stefano Bistarelli (Università di Perugia)

Federico Cerutti (Università di Brescia)

Marcello D'Agostino (Università di Milano)

Pierpaolo Dondio (Dublin Institute of Technology)

Bettina Fazzinga (ICAR-CNR Napoli)

Stefano Ferilli (Università di Bari)

Sergio Flesca (Università della Calabria)

Simone Gabbriellini (CEO Manent.ai)

Massimiliano Giacomin (Università di Brescia)

Floriana Grasso (University of Liverpool)

Sergio Greco (Università della Calabria)

Marco Lippi (Università degli study di Modena e Reggio Emilia)

Luca Longo (Dublin Institute of Technology)

Fabrizio Macagno (Universidade Nova de Lisboa)

Marco Maratea (Università di Genova)

Francesco Parisi (Università della Calabria)

Carlo Proietti (ILLC, Universiteit van Amsterdam)

Francesca Toni (Imperial College, London)

Paolo Torroni (Università di Bologna)

Mauro Vallati (University of Huddersfield)