Preface

This volume contains the papers presented at AI^3 2018[1]: the 2nd Workshop on Advances In Argumentation In Artificial Intelligence, co-located with the XVII International Conference of the Italian Association for Artificial Intelligence (AI*IA 2018) held in Trento, on the 20-23 November 2018, Italy.

Argumentation involves the investigation of those activities for the production and exchange of arguments, where arguments are attempts to persuade someone or modeling something by giving reasons for accepting a particular conclusion or claim as evident. As such, argumentation is aimed at proposing and studying procedures for making and explaining decisions by capturing diverse types of reasoning and dialogue activities in a formal but still intuitive way. In the last two decades, formal argumentation has become a key research topic within Artificial Intelligence. Given the multidisciplinarity and interdisciplinarity surrounding argumentation, the main objective of the workshop was to stimulate discussions and exchange of ideas as well as to promote scientific collaboration among scholars from different disciplines, including computer science, philosophy, psychology, linguistic and law. Similarly, the existence of the workshop is to give a group identity to those several researchers not only in Italy but also in Europe and in the world.

The workshop brought together researchers working in argumentation from different countries. During the workshop, foundations in argumentation were discussed as well as challenges and real-world problems for which argumentation may represent a viable AI-paradigm were introduced. Each submission underwent a single-blind peer-review process and each paper was reviewed by at least 3 reviewers. The workshop involved 8 papers accepted for oral presentation, an account of which is given in this volume. These papers dealt with various aspects of argumentation including epistemic and practical reasoning, probabilistic argumentation frameworks, practical applications in real-world contexts and novel approaches for computing the acceptability of arguments as well as for tackling their internal representation.

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

November, 2018

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[1] http://aixia2018.fbk.eu/ai3/

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