

Linked Democracy: Artificial Intelligence for Democratic Innovation

Proceedings of the IJCAI 2017 Workshop on Linked Democracy:
Artificial Intelligence for Democratic Innovation

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Foreword

The Workshop on ‘Linked Democracy: Artificial Intelligence for Democratic Innovation’ is one of the official workshops of the International Joint Conference on Artificial Intelligence (IJCAI 2017) held in Melbourne (19-26 August 2017). The goal of this workshop is to provide a multidisciplinary forum to address questions such as: How to model the interactions between people, data, and digital tools that create new spaces and forms of civic action in the digital era? How to analyse emerging properties and types of knowledge in these contexts? How to design socio-technical systems that effectively leverage data and knowledge for deliberation (or other types of participation) and collective decision making? Can we design the meta-rules of the emergent ecosystems?

The Workshop brings together participants from universities and research centers in Australia, New Zealand, Spain, Brazil, Israel, UK, and the USA. The workshop received 10 submissions, covering a number of different areas in AI (e.g. multi-agent systems and machine learning), economics, political sciences, and law. All submitted versions were reviewed by at least two members of the Program Committee. These proceedings finally include nine of these papers and an invited keynote speech by Patrick Keyzer.¹

We sincerely thank the Program Committee members for reviewing all submitted papers and providing feedback to improve their revised versions. We are also grateful to the IJCAI 2017 chairs (Program Chair Carles Sierra, Workshops Chair Daniele Magazzeni and Local Arrangements co-Chair Andy Song) for their support in preparing this workshop. Last but not least, we would like to thank the participants who submitted their papers and afterwards produced the revised versions that are now composing these proceedings.

Marta Poblet, Pompeu Casanovas, and Enric Plaza

Workshop Chairs

¹ The submission not published in this volume can be found at Cohensius, G., Mannor, S., Meir, R., Meirom, E., & Orda, A. (2017). Proxy Voting for Better Outcomes. In Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems: 858-866.

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