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The Semantic Web: ESWC 2022 Satellite Events

Hersonissos, Crete, Greece, May 29 – June 2, 2022
Proceedings

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Preface

This volume contains the satellite proceedings of the 19th edition of the European Semantic Web Conference (ESWC 2022). ESWC is a major venue for discussing the latest in scientific results and innovations related to the Semantic Web, knowledge graphs, and Web data. The satellite events are important aspect of facilitating this discussion.

The satellite events at ESWC 2022 included the poster and demo session, the PhD symposium, the industry track, and project networking, as well as workshops and tutorials. Due to scheduling, the papers from these events are published as post-proceedings.

The poster and demo track received 43 submissions of which 14 posters and 15 demos were accepted. All submissions received three reviews. Posters and demos highlight new research trajectories and ideas within the community and allow for discussions of the latest results. Here, we see topics such as semantics and multi-modality (e.g. video, audio), the importance of Wikidata, methods for dealing with tabular data, and advances in semantic technologies and machine learning.

The PhD symposium is an important venue for doctoral students to present and receive feedback on their research. In total, 13 submissions were received of which 10 papers were accepted. The review process and guidance process was intensive and tailored to helping the students improve their research plans. This included three reviews for each paper as well as peer review by the students themselves. Additionally, all papers were guided by mentors who are senior members of the community. Importantly, senior members of the community attended each presentation to give in-depth feedback. The symposium also featured a keynote by Marieke van Erp. Finally, the students were also given an opportunity to present at the poster and demo session for even more feedback.

The industry track features papers that discuss the adoption and usage of semantic technologies within organizations. Importantly, papers must have a co-author with a non-academic affiliation. We received nine submissions of which six were accepted. All papers received three reviews. The industry track featured papers from a wide variety of organizations including Bosch, Siemens, SNOMED, Wolters Kluwer, and Catalink. Topics included building automation, automotive manufacturing, ontology reshaping, sub-ontology extraction, "semantification" of business, content and data, and data integration.

ESWC 2022 featured a strong collection of ten workshops and two tutorials covering topics ranging from knowledge graph construction and natural language processing to linked data and music and bio-medicine. An addition to this year's program was a main conference presentation of the outcomes of the workshops and tutorials, quickly bringing the learning and observations to the entire community. Later in this volume you will find a more detailed review of the workshops and tutorials.

While not formally part of the proceedings, ESWC has a history of providing network opportunities for projects and particular EU projects. We would like to thank Valentina Presutti and Marieke van Erp for organizing this part of the program for this year.

Lastly, we would like to thank all the contributors to the satellite events: the authors, reviewers, and attendees. These events are crucial for the development of the field and the nurturing of the community.

April 2022

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