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The Semantic Web

18th International Conference, ESWC 2021
Virtual Event, June 6–10, 2021
Proceedings
Preface

What does it mean to have a conference in these strange times? Semantic drift is biting us once again. The word “conference” has its roots in Latin, where it means bringing things together. If there is one thing we cannot do yet, it is bringing people together.

While we have become moderately good at online meetings and virtual gatherings of all kinds, we still have not found an adequate replacement for a coffee break. The power of spontaneous interactions is immense; undoubtedly, some of the best collaborations in our field have started over coffee — or liquids with similar cohesive abilities — in Crete.

However, “to confer” also means to have discussions and exchange opinions. We believe that dialogue is one of the most important aspects of a healthy research community, and we have made it one of our goals to see how we can further drive such conversations. The results of several of those exchanges can be found in these proceedings, and in the echoes of this year’s online conference, which surely will have planted new seeds for the exciting times to come once the world opens up again.

Since these times bring great changes, we took the opportunity to introduce a few more novelties for the 18th edition of the European Semantic Web Conference (ESWC 2021). While the world was closing down, we decided to make the reviewing process more open and switch from the well-established, closed EasyChair platform to OpenReview. As a result, the submissions, reviews, and discussions for all papers are now available to the public, moving the paper decisions away from back room discussions to provide a transparent process.

Moreover, some new research track topics were proposed. Two of the more experimental ones are “replication studies”, which gives a strong case for analyzing whether research efforts stand the test of time, and “problems to solve before you die”, which aims to shift the focus from sometimes very specific solutions for particular problems to a wider research agenda. Moreover, for the first time, “negative result” submissions were invited across all tracks, which garnered particularly good feedback.

Overall, the research track attracted 121 submissions of which 30 were ultimately accepted, with a third undergoing a shepherding process, yielding an acceptance rate of 24.8%. It is particularly remarkable that the acceptance rate for negative results papers was comparable to the overall acceptance rate, which shows that reporting negative results is actually appreciated by the research community.

In the research track, most contributions were submitted to the knowledge graph track, while tracks such as (i) NLP and information retrieval, (ii) matching, integration, and fusion, (iii) data dynamics, quality, and trust, and (iv) ontologies and reasoning also attracted significant numbers of contributions. Moreover, we observed some emerging topics: not quite surprisingly, knowledge graph embeddings were a hot topic among the accepted papers, but there were also enough submissions on autonomous driving to fill a dedicated session in the program.
The resources track attracted a total of 36 submissions, 11 of which were accepted. The track demonstrated very well that the community is not only producing theoretical research but also datasets and artifacts that can be reused by researchers and practitioners. Finally, the in-use track attracted 10 submissions, 2 of which were finally accepted for presentation at the conference. Both the resources and the in-use track demonstrated that the field is clearly moving towards adoption of the developed methods on a large scale and in real projects.

With its 18th edition, ESCW 2021 has officially stepped into adulthood, and it clearly shows in the vibrant and active community. An event like ESWC, be it offline or online, is never the outcome of the work of a few people but an effort that takes a lot of hands. Overall, ESWC 2021 had 23 people on the organization team, plus 20 track chairs for the various topical areas of the research track. 240 reviewers produced a total of 545 reviews, many of them signing with their name and thereby making the review process more transparent. We would like to give a big shout-out to everybody in this community who lent a hand to help - ESWC would not be the same without your contribution! Moreover, we would like to thank STI, OpenReview, and Springer for their support. We finally would like to thank our sponsors for supporting ESWC 2021.

Here’s to meeting you all in person for a Greek salad and raki, while making new memories.

April 2021

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