Preface

The journal track was intended as a forum for presenting significant Semantic Web-related research results that have been recently published in well-known and well-established journals but that have not been presented at a Semantic Web-related conference. The goal was to highlight these results at ISWC and promote discussions potentially leading to meaningful multi-disciplinary collaborations.

Traditionally only articles published in the Journal of Web Semantics (JWS) and the Semantic Web Journal (SWJ) were considered for the ISWC journal track. However, with the goal of enabling cross-fertilization with other related communities, this year our two chairs, Claudia d'Amato and Lalana Kagal, included additional journals such as: the Journal of Network and Computer Applications, IEEE Transactions on Neural Networks and Learning Systems, the Journal of Machine Learning Research, the Data Mining and Knowledge Discovery Journal, ACM Transactions on the Web, ACM Computing Surveys, IEEE Transactions on Knowledge and Data Engineering, ACM Transactions on Computer-Human Interaction, Artificial Intelligence Journal, Proceedings of the Very Large Database Endowment and the Journal of Information Science. Papers falling within the ISWC topics that had been published within the listed journals starting from January 1st, 2017 were considered eligible for submission to the journal track.

We received 24 extended abstract submissions, out of which 13 were accepted and collected as CEUR proceedings.

Each submission was reviewed by at least two members of the 34 member program committee in order to assess how interesting it is as well as its novelty, relevance and attractiveness for the ISWC audience.

Also taken into consideration was the quality of the extended abstracts and the diversity of the topics, spanning from scalable reasoning and triple storage, machine translation, fact predictions on (probabilistic) Knowledge

Graphs, modeling Linked Open data for different domains, and semantic sensor networks.

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