Know@LOD 2015

http://knowalod2015.informatik.uni-mannheim.de

The third international workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD) was held at the 12th Extended Semantic Web Conference (ESWC) in Portoroz, Slovenia. The organizers want to thank the program committee members, authors, and participants for making this third edition of the workshop a great success.

Knowledge discovery and data mining (KDD) is a well-established field with a large community investigating methods for the discovery of patterns and regularities in large data sets, including relational databases and unstructured text. Research in this field has led to the development of practically relevant and scalable approaches such as association rule mining, subgroup discovery, graph mining, and clustering. At the same time, the Web of Data has grown to one of the largest publicly available collections of structured, cross-domain data sets. While the growing success of Linked Data and its use in applications, e.g., in the eGovernment area, has provided numerous novel opportunities, its scale and heterogeneity is posing challenges to the field of knowledge discovery and data mining:

- The extraction and discovery of knowledge from very large data sets;
- The maintenance of high quality data and provenance information;
- The scalability of processing and mining the distributed Web of Data; and
- The discovery of novel links, both on the instance and the schema level.

Contributions from the knowledge discovery field may help foster the future growth of Linked Open Data. Some recent works on statistical schema induction, mapping, and link mining have already shown that there is a fruitful intersection of both fields. With the Know@LOD workshop series, we want to investigate possible synergies between both the Linked Data community and the field of Knowledge Discovery, and to explore novel directions for mutual research. We wish to stimulate a discussion about how state-of-the-art algorithms for knowledge discovery and data mining could be adapted to fit the characteristics of Linked Data, such as its distributed nature, incompleteness (i.e., absence of negative examples), and identify concrete use cases and applications.

For the second time, the workshop featured the Linked Data Mining Challenge, where participants were invited to develop and evaluate methods on a set of open and closed task using a given dataset. This year the Challenge concerned recommendation of movie rating.

The program of the workshop consisted of a keynote by Marko Grobelnik (JSI, Slovenia), and presentations of six long papers, three short papers and three Challenge papers.

Workshop sponsors

The workshop is kindly sponsored by the EU projects GeoKnow and Big Data Europe.

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