

USEWOD '15 and PROFILES '15

Preface

This joint volume of proceedings gathers together papers from the 5th International Workshop on Using the Web in the Age of Data (USEWOD '15) and the 2nd International Workshop on Dataset PROFiling and fEderated Search for Linked Data (PROFILES '15), held on the 31st of May and the 1st June respectively during the 12th European Semantic Web Conference (ESWC) in Portorož, Slovenia.

People argue that we have moved into an age of several Webs - the Web of Data, the Web of Documents, the Semantic Web, the Deep Web, the Dark Web, and many more. However, this is an illusion - there exists only the one #WebWeHave, and it is under our control to make it be the #WebWeWant. To emphasize this, the key theme of the 5th edition of the USEWOD workshop is about using the Web in the age of data, bringing together two spaces again that have recently been investigated separately: classical Web usage mining and Web usage mining in the context of the Web of Data.

The purpose of the USEWOD workshop series has been to create and maintain a forum for researchers to investigate the synergy between the Web of Data and Web usage mining. This required the analysis of semantic data usage. With the current edition, we respond to the fact that publishing and consuming raw data on the Web is an established paradigm today and turn the USEWOD workshop into a forum to discuss more general questions about the usage of the Web. How will the analysis of Web usage benefit from the possibility to blend the classical log with the structure sourcing from Linked Data? Can the progress that has been made on (Read/Write) Linked Data change the way we interact with the Web and what does that mean for the usage analysis capabilities we have at hand today?

In line with this focus, this year's USEWOD is dominated by position contributions designed to stimulate discussion. We extended the standard paper track by a blog on the #WebWeWant and its relationship to the interface between classical-format and Linked Data. The blog was open as well as moderated and quality-controlled through internal reviewing. In addition to a regular, peer-reviewed paper and an invited paper, these proceedings also include the position contributions published on our blog and website.

While the Web of Data, and in particular Linked Data, has seen tremendous growth over the past years, take-up, usage and reuse of data are still limited and is often focused on well-known reference datasets. As the Linked Open Data (LOD) Cloud includes data from a variety of domains spread across hundreds of datasets containing billions of entities and facts and is constantly evolving, manual assessment of dataset features is not feasible or sustainable, leading to brief and often outdated dataset metadata. Given the dynamic nature of the LOD Cloud, particular focus should be on the development of scalable automated approaches, which facilitate the frequent assessment and profiling of large-scale datasets to enable the selection of suitable datasets for query federation and, more generally, dataset recommendation for specific applications.

The PROFILES '15 workshop is a continuation of the workshop series successfully started as PROFILES '14 at ESWC 2014. These workshops aim to

gather innovative query and search approaches for large-scale, distributed and heterogeneous linked datasets in line with dedicated approaches to analyse, describe and discover endpoints, as an inherent task of query distribution and dataset recommendation. The PROFILES '15 workshop aims to become a highly interactive research forum for researchers. PROFILES '15 brings together researchers and practitioners in the fields of Semantic Web and Linked Data, Databases, Semantic Search, Text Mining, NLP as well as Information Retrieval. PROFILES '15 gathered novel works from the fields of semantic query interpretation and federated search for Linked Data, dataset selection and discovery as well as automated profiling of datasets using scalable data assessment and profiling techniques.

We would like to take this opportunity to sincerely thank the authors for their invaluable and inspiring contributions to the workshops. Our sincere thanks are due to the program committee members for reviewing the submissions and assuring the good quality of the workshop program. We are also very grateful to the organisers of the ESWC 2015 conference for their support in the workshop organisation. Great appreciation of his time and expertise goes to PROFILES keynote speaker Heiko Paulheim from the University of Mannheim, Germany, for his talk entitled “What the Adoption of schema.org Tells Us About Linked Open Data”.

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