SAVE-SD 2017: Third Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data

Conference or Workshop Item

SAVE-SD 2017

Third Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data

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ABSTRACT

The third edition of the Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data (SAVE-SD 2017) is taking place in Perth, Australia on the 3rd of April 2017, co-located with the 26th International World Wide Web Conference. The main goal of the workshop is to provide a venue for researchers, publishers and other companies to engage in discussions about semantics, analytics and visualisations on scholarly data.

1. INTRODUCTION

Recent years have seen increasing concerns about the difficulty in reproducing research results, revealing an uncomfortable reproducibility crisis [1], in scientific circles [1] [2] and beyond [3]. Supporting new forms of scholarly data publication and analysis is crucial to tackle this reproducibility crisis, encouraging and supporting researchers to make their scholarly outputs available.

The SAVE-SD workshop provides a venue for discussions about enhancing scholarly data among researchers, publishers and other companies interested in data semantics, analytics and visualisation, and scenarios revolving around the production and use of scholarly data. We aim to complement the efforts of other organisations and venues around scholarly communications, such as The future of Research Communications and e-Scholarship (Force11, `https://www.force11.org`) and the Research Data Alliance (RDA, `https://www.rd-alliance.org`).

To reflect the different stakeholders we aim to engage, SAVE-SD has three program committees (PCs): (i) the senior PC, whose members act as meta-reviewers, (ii) the industrial PC, whose members evaluate the submissions from an industrial perspective, mainly by assessing how much the theories/applications described in the papers do/may influence the publishing domain and whether they could be concretely adopted by publishers and scholarly data providers, and (iii) the academic PC, whose members evaluate the papers from an academic perspective, mainly by assessing the quality of the research described.

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2. OBJECTIVES

The main objective of this workshop is to bring together researchers, publishers, and other companies fields such as Document and Knowledge Engineering, Semantic Web, Natural Language Processing, Scholarly Communication, Bibliometrics, and Human-Computer Interaction. By fostering discussions among these different stakeholders we aim to bridge the gap between the theoretical and practical aspects of scholarly data and innovative ways of scholarly communication. We would like to address topics such as:

- semantics of scholarly data, i.e. semantic representation, categorisation, connection and integration of scholarly data;
- analytics on scholarly data, i.e. designing and implementing novel and scalable algorithms for knowledge extraction with the aim of understanding research dynamics, forecasting research trends, fostering connections between groups of researchers, etc.;
- visualisation of and interaction with scholarly data, i.e. providing novel user interfaces and applications for navigating and making sense of scholarly data and highlighting their patterns and peculiarities.

3. ORGANISERS AND PROGRAMME COMMITTEES

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Silvio Peroni (University of Bologna)
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Ilaria Tiddi (KMi, The Open University)

4. TOPICS OF INTEREST

The main topics of the workshop include, but are not limited to:

- data models (e.g., ontologies, vocabularies, schemas) for the description of scholarly data and the linking between scholarly data and academic papers that report or cite them;
- description of citations and citation networks;
- theoretical models describing the rhetorical and argumentative structure of scholarly papers and their application in practice;
- from digital libraries of scholarly papers to Linked Open Datasets: models, applicability and challenges;
- modelling licences and provenance for scholarly documents and data;
- assessing the quality and/or trust of scholarly data;
- automatic or semi-automatic approaches to reconstruction, forecasting and monitoring of scholarly data;
- automatic semantic enhancement of existing scholarly libraries and papers;
- novel user interfaces for interaction with paper, metadata, content, and data;
- visualisation and user interface regarding scholarly data;
- applications for the (semi-)automatic annotation of scholarly papers.

5. SUBMISSIONS AND PROGRAMME

Several formats were possible for the submission, including HTML (that was strongly encouraged as it allowed one to provide enhanced scholarly data), DOCX, ODT, and PDF.

The invited speaker for the opening keynote of the workshop is Patricia Feeney, Product Support Manager at Crossref, while the full program of SAVE-SD 2017 is available in the workshop webpage at `http://cs.unibo.it/save-sd/2017/index.html`. Updates about the workshop can be followed through its twitter account: @savesdworkshop.

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6. REFERENCES

[1] Baker. "1,500 scientists lift the lid on reproducibility", Nature, May 2016. DOI: `http://dx.doi.org/10.1038/533452a`

[2] Nature Special. "Challenges in irreproducible research". `http://www.nature.com/news/reproducibility-1.17552`

[3] The economist, "How science goes wrong", `http://www.economist.com/news/leaders/21588069-scientific-research-has-changed-world-now-it-needs-change-itself-how-science-goes-wrong`