# SAVE-SD 2016 — Second Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data

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## ABSTRACT

The second edition of the Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data (SAVE-SD 2016) is held in Montreal, Canada on April 11, 2016 and co-located with the 25th International World Wide Web Conference. Its main goal is bringing together publishers, companies and researchers working on semantics, analytics and visualisation of scholarly data in order to bridge the gap between the theoretical/academic and practical/industrial aspects in this field.

## Categories and Subject Descriptors

Information systems~Data analytics, Information systems~Semantic web description languages, Human-centered computing~Human computer interaction (HCI)

## Keywords

Scholarly Data, Semantics, Semantic Web, Analytics, Digital Library, Visualization, Human Computer Interaction

## INTRODUCTION

In recent years, the fields of scholarly data representation, data analytics and visualisation experienced a rapid growth. The amount of open scholarly data available on the web has also increased steadily. Supporting new forms of scholarly data publication and analysis is a crucial issue for the academic community and research funding agencies. The topic is at the core of international community forums, such as *FORCE11* [1] and *Research Data Alliance* (*RDA*) [2]. Both publishing and technology companies are already provisioning services around scholarly data, supporting data publication and data preservation (e.g., Figshare and Dryad), offering of alternative metrics for assessing academic performance (e.g., Altmetrics and ImpactStory), and many other innovative services based on research data. This interest from the business world presents an unprecedented opportunity for rapidly transforming academic knowledge into practice and achieving the data-driven science and innovation that can be achieved given the technological advances and availability of large amounts of data.

For this reason, SAVE-SD 2016 will offer an occasion to bring together publishers, companies and researchers working on data semantics, analytics and visualisation, for discussing the current scenarios revolving around the production and use of scholarly data, and for planning future research and industrial directions. To this end, SAVE-SD 2016 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.

In order to promote innovative ways of scholarly publishing, SAVE-SD 2016 is also actively experimenting in supporting alternative machine-readable formats by accepting submissions in HTML-based formats. In particular, the authors are encouraged to prepare their publication in HTML-based formats, following the Springer LNCS layout or using *RASH* [3], the *Research Articles in Simplified HTML* format, which offer tools for formatting the paper automatically in HTML according to different layouts. To encourage the submission in HTML-based formats, an award of 250 euros as a voucher for buying Springer's products, kindly sponsored by Springer, will be assigned to the best workshop submission in RASH.

All the publication of SAVE-SD will be made available on the workshop website and published in a Lecture Notes in Computer Science volume by Springer. In addition, the authors of selected full research papers of the workshop will be invited to submit an extended version of their work to a special issue to be published as part of PeerJ Computer Science and authors of selected position, demo, and poster papers will be invited to submit an extended version to a special issue of the Research Ideas and Outcomes (RIO) Journal.

## OBJECTIVES

The main objective of this workshop is to bring together publishers, companies and researchers from different fields (among which Document and Knowledge Engineering, Semantic Web, Natural Language Processing, Scholarly Communication, Bibliometrics, and Human-Computer Interaction) in order to bridge the gap between the theoretical/academic and practical/industrial aspects with regard to scholarly data. The following topics will be addressed:

- **semantics** of scholarly data, i.e. how to semantically represent, categorize, connect and integrate scholarly data, in order to foster reusability and knowledge sharing;
- **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, informing research policies, analysing and interlinking experiments and deriving new knowledge;
- **visualization 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.

## 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

## FORMAT

The workshop is a one-day workshop and will include a keynote, three paper sessions and a poster and demo session. The invited speaker for the opening keynote of the workshop is Alex Wade, Director of Scholarly Communications at Microsoft Research, currently focused on Microsoft Academic, involving aspects of knowledge acquisition, knowledge representation, intentionality, dialog systems, semantic search and intelligent agents. The full program of SAVE-SD 2016 is available at http://cs.unibo.it/projects/save-sd//2016/program.html. Updates about the workshop can be followed through its twitter account: @savesdworkshop.

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## ACKNOWLEDGMENTS

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