

## **Preface - Editors' note**

The Semantic Web has come a long way since its inception in 2001, especially in terms of technical development and research progress. However, adoption by non-technical practitioners is still an ongoing process, and in some areas this process is just now starting. Emergency response is an area where reliability and timeliness of information and technologies is of essence. Therefore it is quite natural that more widespread adoption in this area has not been seen until now, when Semantic Web technologies are mature enough to support the high requirements of the application area. Nevertheless, to leverage the full potential of Semantic Web research results for this application area, there is need for an arena where practitioners and researchers can meet and exchange ideas and results. Our intention is for this workshop, and hopefully coming workshops in the same series, to be such an arena for discussion.

The Extended Semantic Web Conference (ESWC - formerly the European Semantic Web conference) is one of the major research conferences in the Semantic Web field, whereas this is a suitable location for this workshop in order to discuss the application of Semantic Web technology to our specific area of applications. Hence, we chose to arrange our first SMILE workshop at ESWC 2013.

However, this workshop does not focus solely on semantic technologies for emergency response, but rather Semantic Web technologies in combination with technologies and principles for what is sometimes called the "social web". Social media has already been used successfully in many cases, as a tool for supporting emergency response. The aim of this workshop is therefore to take this to the next level and answer questions like: "how can we make sense of, and furthermore make use of, all the data that is produced by different kinds of social media platforms in an emergency situation?"

For the first edition of this workshop the chairs collected the following main topics of interest:

- Semantic Annotation for understanding the content and context of social media streams.
- Integration of Social Media with Linked Data.
- Interactive Interfaces and visual analytics methodologies for managing multiple large-scale, dynamic, evolving datasets.
- Stream reasoning and event detection.
- Social Data Mining.
- Collaborative tools and services for Citizens, Organisations, Communities.
- Privacy, ethics, trustworthiness and legal issues in the Social Semantic Web.
- Use case analysis, with specific interest for use cases that involve the application of Social Media and Linked Data methodologies in real-life scenarios.

All of these, applied in the context of:

- Crisis and Disaster Management
- Emergency Response
- Security and Citizen Journalism

The workshop received 6 high-quality paper submissions and based on a thorough review process, thanks to our program committee, the decision was made to accept

four of these papers for the workshop (67% acceptance rate). These four papers can be found later in this proceedings volume. Three out of four of these papers particularly discuss the integration and analysis of social media data, using Semantic Web technologies, e.g. for detecting complex events in social media streams, for visualizing and analysing sentiments with respect to certain topics in social media, or for detecting small-scale incidents entirely through the use of social media information. Finally, the fourth paper presents an architecture for using Semantic Web technologies in resource management during a disaster.

Additionally, the workshop featured an invited keynote speech by Dr. Tomi Kauppinen from Aalto university. Dr. Kauppinen shared experiences from his work on applying Semantic Web technologies to application fields such as geoinformatics and scientific research, i.e. so-called Linked Science, but also recent ideas and applications in the emergency response field. His input was also highly valuable for the roadmapping discussion, which was held at the end of the workshop. A separate summary of the roadmapping session can be found at the end of these proceedings.

Finally, we would like to thank our invited speaker Dr. Tomi Kauppinen, all our program committee members, as well as the workshop chair of ESWC2013, Johanna Völker (University of Mannheim), for helping us to make this first SMILE workshop a highly interesting and successful event!

Dr. Vitaveska Lanfranchi, University of Sheffield, UK

Dr. Suvodeep Mazumdar, University of Sheffield, UK

Dr. Eva Blomqvist, Linköping University, Sweden

Dr. Christopher Brewster, Aston University, UK