Preface

This volume contains the papers presented at CSTIW2016: Conceptual Structures Tools & Interoperability Workshop 2016 held at the 22nd International Conference on Conceptual Structures (ICCS 2016) on July 4-6, 2016 in Annecy, France.

Many tools have been developed in the Conceptual Structures (CS) community to model, represent and reason about conceptual structures such as Conceptual Graphs, Formal Concepts Analysis, and related techniques that align "information processing in mind and machine" (the sub-title of Sowa's 1984 original text on CS). We need to demonstrate how these tools add value in building effective knowledge systems that are useful to individuals, communities and organizations in practice. The ICCS Conceptual Structures Tools and Interoperability workshop (CSTIW 2016) therefore invited submissions up to 9 pages in length. Tools that demonstrated i) the value of CS, ii) the interoperability between CS tools, or iii) between CS tools and other technologies were particularly welcomed. Indeed, the workshop sessions were given over to the actual demonstration of the tools rather than simple presentations of the papers, which these proceedings document as a record of the event.

The workshop focussed on tools that address one or more of the following illustrative three main themes:

Application Requirements

- What types of applications do CS tools have in the real world?

- What requirements do these applications impose on CS tools?

- What are the barriers to the adoption of CS tools in the wider realm of smart applications?

- How are CS tools being developed to deal with real world application requirements?

Knowledge Architectures

- What is the role of CS tools in bringing about effective knowledge systems?

- What components do CS tools add in these systems?

- What architectural principles should guide CS tools design and implementation?

- How do CS tools co-exist with standard information systems and software engineering methodologies?

Interoperability Standards

- What are the most relevant official and de facto standards affecting CS tools and their interoperability?

- How should these standards inform CS tools design, development and implementation?

- How do we evaluate CS tools in the wider realm of interoperability standards?

- How can the practical interoperability experiences from CS tools inform the wider standards setting process?

The workshop brought together researchers from diverse communities with the common goal of a fruitful discussion on the above mentioned themes. The workshop raised the mutual awareness of ongoing research and existing technologies for the benefit of everyone. We wish in full to express our appreciation to all the authors of submitted papers and to the members of the Program Committee for all their work and valuable comments.

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