# SEMAPRO 2010

## Foreword

The Fourth International Conference on Advances in Semantic Processing (SEMAPRO 2010), held from October 25 to October 30, 2010 in Florence, Italy, considered the complexity of understanding and processing information. Semantic processing considers contextual dependencies and adds to the individually acquired knowledge emergent properties and understanding. Hardware and software support and platforms were developed for semantically enhanced information retrieval and interpretation. Searching for video, voice and speech [VVS] raises additional problems to specialized engines with respect to text search. Contextual searching and special patterns-based techniques are current solutions.

With the progress on ontology, web services, semantic social media, semantic web, deep web search /deep semantic web/, semantic deep web, semantic networking and semantic reasoning, SEMAPRO 2010 constituted the stage for the state-of-the-art on the most recent advances.

We take here the opportunity to warmly thank all the members of the SEMAPRO 2010 technical program committee as well as the numerous reviewers. The creation of such a broad and high quality conference program would not have been possible without their involvement. We also kindly thank all the authors that dedicated much of their time and efforts to contribute to the SEMAPRO 2010. We truly believe that thanks to all these efforts, the final conference program consists of top quality contributions.

This event could also not have been a reality without the support of many individuals, organizations and sponsors. We also gratefully thank the members of the SEMAPRO 2010 organizing committee for their help in handling the logistics and for their work that is making this professional meeting a success. We gratefully appreciate to the technical program committee co-chairs that contributed to identify the appropriate groups to submit contributions.

We hope Florence provided a pleasant environment during the conference and everyone saved some time for exploring this historic city.

**SEMAPRO 2010 Chairs**

Harith Alani, Knowledge Media Institute/The Open University, UK
Petre Dini, IARIA / Concordia University, Canada
Laurianne Sitbon, National ICT Australia/Queensland Research Laboratory - Brisbane, Australia
René Witte, Concordia University - Montréal, Canada
Stefania Galizia, INNOVA S.p.A., Italy
Peter Haase, Fluid Operations, Germany
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