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Preface

With the increasing availability of data, it becomes more important to have automatic methods to manage data and retrieve information. Data processing, especially in the era of Social Media, is changing users behaviours. Users are ever more interested in information rather than in mere raw data. Considering that the large amount of accessible data sources is growing, novel systems providing effective means of searching and retrieving information are required. Therefore the fundamental goal is making information exploitable by humans and machines.

DART 2014 intends to provide a more interactive and focused platform for researchers and practitioners for presenting and discussing new and emerging ideas. It is focused on researching and studying new challenges in Intelligent Information Filtering and Retrieval. In particular, DART aims to investigate novel systems and tools to web scenarios and semantic computing. In so doing, DART will contribute to discuss and compare suitable novel solutions based on intelligent techniques and applied in real-world applications. Information Retrieval attempts to address similar filtering and ranking problems for pieces of information such as links, pages, and documents. Information Retrieval systems generally focus on the development of global retrieval techniques, often neglecting individual user needs and preferences. Information Filtering has drastically changed the way information seekers find what they are searching for. In fact, they effectively prune large information spaces and help users in selecting items that best meet their needs, interests, preferences, and tastes. These systems rely strongly on the use of various machine learning tools and algorithms for learning how to rank items and predict user evaluation.

Submitted proposals received three review reports from Program Committee members. Based on the recommendations of the reviewers, 5 full papers have been selected for publication and presentation at DART 2014. In addition, Fabrizio Sebastiani, who is a Principal Scientist at Qatar Computing Research Institute in Doha (Qatar), gave a plenary talk on Explicit Loss Minimization in Quantification Applications.

When organizing a scientific conference, one always has to count on the efforts of many volunteers. We are grateful to the members of the Program Committee, who devoted a considerable amount of their time in reviewing the submissions to DART 2014.

We were glad and happy to work together with highly motivated people to arrange the conference and to publish these proceedings. We appreciate the work of the Publicity Chair Fedelucio Narducci from University of Bari Aldo Moro for announcing the workshop on various lists. Special thanks to Salvatore Ruggieri for the support and help in managing the workshop organization.

We hope that you find these proceedings a valuable source of information on intelligent information filtering and retrieval tools, technologies, and applications.

December 8, 2014
Cagliari

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