

Eighth Workshop on Information Integration on the Web (IIWeb 2011)

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Abstract

The goal of the Eighth Workshop on Information Integration on the Web (IIWeb 2011), held in conjunction with WWW 2011 on March 28th, 2011 at Hyderabad, India was to bring together academic researchers and industry practitioners in Information Integration. This edition had a special focus on challenges brought out in integrating cyber physical systems (CPS) for building a sustainable ecosystem for life on our planet. The workshop program consisted of three invited talks and six presentations from authors of accepted papers, all focussed in the area of cyber physical system creation for smarter traffic, intelligence gathering etc. The six papers were picked from a pool of twenty two papers submitted to the workshop after a peer review process. The workshop attracted about 30 registered delegates of WWW 2011.

1 Introduction

Cyber-physical systems (CPS) are physical and engineered systems whose operations are monitored, coordinated, controlled and integrated by a computing and communication core. This intimate coupling between the cyber and physical is manifested from the nano-world to large-scale wide-area systems. The internet transformed how humans interact and communicate with one another, revolutionized how and where information is accessed, and even changed how people buy and sell products. Similarly, CPS will transform how humans interact with and control the physical world around us. Examples of CPS include medical devices and systems, aerospace systems, transportation vehicles and intelligent highways, defense systems, robotic systems, process control, factory automation, building and environmental control and smart spaces. CPS interact with the physical world, and must operate dependably, safely, securely, and efficiently and in real-time.

This workshop, eighth in the IIWeb series, was focused on making research in information integration on the web more relevant to the challenges in cyber physical systems built to solve critical problems that arise when we want to build a sustainable ecosystem for life on our planet. The workshop continued along its traditional themes of interest namely integration architectures, information extraction, web object extraction, record linkage, named entity extraction, source meta-data learning, query execution and optimization. However,

special emphasis was given to how this can be applied to integrating information arising from physical systems such as sensors deployed to measure flow of traffic, or measure water consumption, etc. The final program consisted of oral presentations of papers selected by the program committee. The papers spanned a large array of disciplines related to information integration. IIWeb was collocated with WWW 2011 and so the flavor of the Web community comes through in the final program. We thank our steering and program committees for their many valuable inputs and thoughtful reviews. We accepted six papers from a pool of twenty two papers submitted to the workshop after a peer review process. Each paper was carefully reviewed by three program committee members. We would like to thank our Program Committee for selecting this high-quality program for IIWeb 2011. The program included invited talks by Prof. Panos Ipeirotis (Stern School of Business, NYU), Prof. Sounder Kumara (Allen E&M Pearce Chair, Penn State University) and Dr. Biplav Srivastava (IBM Research - India). The workshop attracted about 30 registered delegates of WWW 2011.

The proceedings are to be published electronically as an ACM ICPS volume (ISBN: 978-1-4503-0620-1) and will be available on ACM Digital Library. Details about IIWeb 2011 including list of accepted papers are available at: <http://research.ihost.com/iweb11/>.
