

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

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ABSTRACT

The goal of the 8th Workshop on Information Integration on the Web (IIWeb) is to bring together academic researchers and industry practitioners in Information Integration with a special focus on integrating cyber physical systems for building a sustainable ecosystem for life on our planet. Towards this goal the workshop program consists of an engaging set of talks and papers.

Categories and Subject Descriptors

H. Information Systems

General Terms

Algorithms, Performance, Experimentation.

Keywords

Cyber-Physical Systems, Information Integration.

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, is 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 continues 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 is 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 consists of oral presentations of papers selected by the program committee. The papers span a large array of disciplines related to information integration. This year IIWeb is collocated with WWW so the flavor of this community comes through in the final program. 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 also includes a keynote lecture and invited talks. The proceedings are published electronically as an ACM ICPS volume (ISBN: 978-1-4503-0620-1) and are available on ACM Digital Library.

We thank our steering and program committees for their many valuable inputs and thoughtful reviews. More details about IIWeb 2011 are available online at: <http://research.ihost.com/iiweb11/>.

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