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THEME

Compute 2010, the annual conference of ACM Bangalore Chapter, will be held on 22nd and 23rd Jan, 2010. This will be the third in the series of Compute, the flagship conference of ACM Bangalore Chapter. It is now widely recognized that applied research has a key role to play in computer science is moving beyond the academia into the business domain, more specifically with practitioner perspective of technology absorption, and innovation. The aim of this conference is to bring together researchers, practitioners, technology market movers, and thought leaders, with a view to advance the state of the art, and the state of the practice in applied research, which is a catalyst in leveraging of Computer Science by IT companies. In context of today's proliferation and diversification of information sources, information formats, information access media, we decided to concentrate the conference to discuss diverse contemporary research and practitioner perspectives covering this theme.

CONFERENCE HIGHLIGHTS

Keynote 1: *The Emerging Science of the Web and Why it is Important*



Speaker: Wendy Hall, DBE, FRS, FEng is Professor of Computer Science at the University of Southampton, UK

Abstract: With the advent of the internet and the World Wide Web we are able to share information as never before. The Web has become a critical global infrastructure. Since its emergence in the mid-1990s, it has exploded into hundreds of billions of pages that touch almost all aspects of modern life. Today the jobs of more and more people depend on the Web. Media, banking and health care are being revolutionized by it, and governments are even considering how to run their countries with it. Little appreciated, however, is the fact that the Web is more than the sum of its pages and it is more than its technical protocols. Vast emergent properties have arisen that are transforming society. E-mail led to instant messaging, which on the Web has led to social networks such as Facebook and Twitter. The transfer of documents led to file-sharing sites such as Napster, which have led to user-generated portals such as blogs, Flickr and YouTube. Web 2.0, tagging content with labels, is creating online communities that share everything from concert news to health care. Looking forward we are adding to the Web of documents by creating a Web of linked data. It is our hypothesis that this will become the dominant data sharing and integration platform and that its effect on the world will be as profound and unexpected as the impact of the first Web. As we seek to understand the origins of the Web, appreciate its current state and anticipate possible futures there is a need to address the critical questions that will determine how the Web evolves as both a social and a technical network. The emerging field of understanding these issues is becoming known as Web Science. In this talk we will explore how this new science of the Web has become established, the insights that are beginning to emerge and discuss the major research and education challenges ahead.

Keynote 2: *Two-stage Constraint Parsing for Indian Languages*



Speaker: Prof. Rajeev Sangal, Founder-Head of Language Technologies Research Centre, at IIIT, Hyderabad, India

Abstract: Natural Language Processing deals with understanding and developing computational theories of human language. Such theories allow us to understand the structure of language and build computer software that can process language. For example, if a query in a human language can be processed (that is, analyzed and understood) by the machine, then it can try to find an answer from a given database or from a set of documents. A search engine of the future is likely to use such a technology. Parsing gives the grammatical analysis of a given sentence. Here, we will describe 2-stage parsing in the Computational Paninian Grammar framework. The parser is a constraint solver, where constraints are expressed in the form of integer programming constraints. Research results regarding its performance would be presented, and compared with data driven parsing.

Tutorial 1: *Programming the Cloud*

Speakers: Simone, AWS Evangelist, Amazon Seattle. Chidambaram Kollengode, Director Cloud Computing, Yahoo R&D. Dr. Vijay Sukthankar, IBM.

Abstract: A day long tutorial with hands on deep dive programming illustrations on leading cloud platforms - Microsoft Azure, Hadoop, IBM Blue Cloud.

Tutorial 2: *Rich Internet and Social Networking Applications,*

Speakers: Mrinal Wadhwa, Rich Internet Applications Consultant. Prateek Dayal, Entrepreneur and Technologist.

Abstract: The first part of the tutorial will cover Rich Internet Applications - Overview of the current RIA platforms, in-depth tutorial on how to build RIA using Adobe Flex 3, how to use advanced features of Adobe Flex 4 and how to create, install and deploy RIA applications. The second part of the tutorial will cover building social networking applications. The speaker will cover building of a facebook application from scratch and how to deploy and integrate it with social media networks.

Tutorial 3: *Analytics - Role of Structured and Unstructured Information Management*

Speakers: Dr. Karin Murthy, Information Management Group, IBM Research. Dr Lokendra Shastri, Head of Centre for Knowledge Driven Information Systems, Infosys.

Abstract: Detailed tutorial and panel discussion on Trends and Approaches in Structured Analytics and Text Analytics by Industry Experts.

Other Highlights

Deep Dive Research Paper and Poster Sessions in areas including Text/Data Mining, Web 2.0, Cloud Computing and Intelligent Systems.

ACM Bangalore Quiz - Annual ACM Bangalore Technical Quiz covering computer science subjects.

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