

28TH BRAZILIAN SYMPOSIUM ON DATABASES

Invited Talks

September 30th – October 3rd, 2013

Recife, Pernambuco, Brazil

Promotion

Brazilian Computer Society – SBC
SBC Special Interest Group on Databases

Organization

Universidade Federal de Pernambuco – UFPE

Realization

Centro de Informática (CIn)

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H. V. Jagadish

Short bio:

H. V. Jagadish is Bernard A Galler Collegiate Professor of Electrical Engineering and Computer Science, and Director of the Software Systems Research Laboratory, at the University of Michigan in Ann Arbor. After earning his PhD from Stanford in 1985, he spent over a decade at AT&T Bell Laboratories in Murray Hill, N.J., eventually becoming head of AT&T Labs database research department at the Shannon Laboratory in Florham Park, N.J. Professor Jagadish is well-known for his broad-ranging research on information management, and has approximately 200 major papers and 37 patents. He is a fellow of the ACM (“The First Society in Computing”) and serves on the board of the Computing Research Association, and is the Founding Editor-in-Chief of the Proceedings of the VLDB Endowment (since 2008).

Title:

Challenges and Opportunities with Big Data

Abstract:

There is great deal of buzz around “Big Data” these days. What is real? What is hype? What are the research issues thrown up for Computing research? This talk will overview the landscape.



Johannes Gehrke

Short bio:

Johannes Gehrke is the Tisch University Professor in the Department of Computer Science at Cornell University and a Scientist at Microsoft. Johannes' research interests are in the areas of database systems, data science, and data privacy. Johannes has received a NSF Career Award, an Arthur P. Sloan Fellowship, an IBM Faculty Award, the Cornell College of Engineering James and Mary Tien Excellence in Teaching Award, the Cornell University Provost's Award for Distinguished Scholarship, a Humboldt Research Award from the Alexander von Humboldt Foundation, the 2011 IEEE Computer Society Technical Achievement Award, and the 2011 Blavatnik Award for Young Scientists from the New York Academy of Sciences. He co-authored the undergraduate textbook Database Management Systems (McGrawHill (2002), currently in its third edition), used at universities all over the world. Johannes is also an Adjunct Professor at the University of Tromsø in Norway. Johannes was Program co-Chair of KDD 2004, VLDB 2007, and ICDE 2012. From 2007 to 2008, he was Chief Scientist at FAST Search and Transfer.

Title:

Data Management Challenges for Social Applications

Abstract:

There are many Database Applications that require users to coordinate and communicate. Friends want to coordinate travel plans, students want to jointly enroll in the same set of courses, and busy professionals want to coordinate their schedules. These tasks are difficult to program using existing abstractions provided by database systems since they all require some type of coordination between users. However, this type of information flow is fundamentally incompatible with classical isolation in database transactions. I will argue that it is time to look beyond isolation towards principled abstractions for Big Data Social. This is joint work with Alan Demers, Nitin Gupta, Christoph Koch, Lucja Kot, Milos Nikolic, and Sudip Roy.



Wagner Meira Jr

Short bio:

É professor titular do Departamento de Ciência da Computação da Universidade Federal de Minas Gerais. Wagner é PhD em Ciência da Computação pela University of Rochester (1997), além de mestre e bacharel em Ciência da Computação pela Universidade Federal de Minas Gerais (1993 e 1990, respectivamente). Atualmente Wagner é pesquisador em produtividade do CNPq (nível 1C) e coordenador da linha de pesquisa em Descoberta do Conhecimento do INWeb – Instituto Nacional de Ciência e Tecnologia para a Web. Seus interesses de pesquisa são em sistemas paralelos e distribuídos, em particular na sua escalabilidade e eficiência, variando de sistemas massivamente paralelos a plataformas baseadas na Internet, e em algoritmos de mineração de dados, sua paralelização e aplicação em áreas como recuperação de informação, bioinformática e governança eletrônica.

Title:

Mineração de Dados: Modelos, Algoritmos, Sistemas e Aplicações

Abstract:

Mineração de dados surgiu como a junção de várias áreas como bancos de dados, estatística e inteligência artificial e tem crescido continuamente nos últimos 20 anos. Recentemente, o surgimento do conceito de “big data” acelerou ainda mais esse processo. Neste seminário vamos discutir pesquisa na área de mineração de dados e os seus elementos fundamentais, nominalmente modelos, algoritmos, sistemas e aplicações, assim como uma visão integrada desses elementos, como tal arcabouço já foi empregado em vários cenários como aplicações web e tendências futuras.