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Electronic Chronicles: Empowering Individuals, Groups, and Organizations

DATE: June 8, 2005

TIME: Refreshments served at 3:45pm with talk to follow.

LOCATION: 3008 Calit2 building at UCI

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SPEAKER
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Electronic Chronicles: Empowering Individuals, Groups, and Organizations

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Abstract:

Continuing strides in processing, storage, sensing, and networking technologies are enabling people to capture their activities and experiences as greater volumes of ever-richer media. Consequently, a big emerging challenge today is the organization, retrieval, and exploitation of such data surrounding the activities of individuals or enterprises. The field of electronic chronicles deals with the unified contextual organization, presentation, and analysis of temporal streams of multimedia data captured by individuals, groups, or organizations. The value of electronic chronicles is in converting activity and experience from the past into actionable intelligence in the present. Such multimedia electronic chronicles, with their associated techniques for search and navigation, analysis and reasoning, and prediction and alerting, can have enormous impact on various spheres of life spanning enhancement of personal life, business productivity, entertainment, and government operations. In this talk, I will introduce the notion of electronic chronicles, present some of my work in this area, and outline the research challenges in this field.

Bio:

Gopal Pingali is a Manager and Research Staff Member in Pervasive Computing Solutions at the IBM T.J. Watson Research Center. He received his Ph.D. from University of Michigan in 1993 and was a Member of Technical Staff at Bell Labs till 2001 when he joined IBM. His work has spanned real-time visual and audio-visual tracking of human activity, pervasive multimedia technologies, and contextual interfaces. Gopal leads a team at IBM that introduced steerable interfaces for smart spaces and is currently driving efforts on chronicling tools for the enterprise. Earlier, he invented LucentVision, a real-time multimedia indexing, analysis, and visualization system used for two years by 25 television networks in live tennis broadcasts and webcasts. Gopal holds several patents for inventions in these various areas. He received the Mark Weiser Best Paper Award at the IEEE Pervasive Computing Conference in 2003, the Best Industry Related Paper Award from the International Association for Pattern Recognition in 2000, and the 2003 Pat Goldberg Memorial Best Paper Award in Computer Science, Electrical Engineering and Mathematics at IBM Research. He is an Associate Editor of the IEEE Transactions on Image Processing and has been Chair of the ACM Workshop on Telepresence from 2002 to 2004.