

COMPUTER SCIENCE COLLOQUIUM

Department of Computer Science
City University of Hong Kong

Towards iMARS 2.0: New Algorithms and Platforms for Large-Scale Multimedia Analytics

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Date :

15 October 2009 (Thursday)

Time :

2:00pm - 3:00pm (Refreshment will be served at 1:45pm)

Venue :

CS Seminar Room, Room Y6405, 6th Floor, Yellow Zone, Academic Building, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong

Abstract

Stimulated by recent progress in scalable machine learning and multi-modal analysis techniques, researchers are becoming increasingly interested in exploring challenges and new opportunities for developing much larger scale approaches for multimedia retrieval and mining. Many of these computationally-intensive ideas are now becoming practical because of the broader availability of high-speed clusters and the advent of cloud computing. In this talk, I will introduce some of our recent efforts on developing the next generation of IBM multimedia analysis and retrieval system (iMARS2.0) along these directions. This includes our development of more scalable learning algorithms, such as imbalanced boosting (IMBoost), compressed classification, and applications on more advanced distributed computing platforms including Apache Hadoop and IBM InfoSphere stream processing platform.

Biography

Dr. Rong Yan is a Research Staff Member in Intelligent Information Management Department at the IBM T. J. Watson Research Center. Dr. Yan received his M.Sc. (2004) and Ph.D. (2006) degree from Carnegie Mellon University's School of Computer Science, and joined IBM Research in 2006. His research interests include multimedia information retrieval, large-scale machine learning, data mining, video content analysis, and computer vision. Dr. Yan is the leading designer of the automatic video retrieval system that achieves the best performance in the world-wide TRECVID evaluation in 2003 / 2005. He received the Best Paper Runner-Up awards in ACM MM 2004 and ACM CIVR 2007.

Dr. Yan is currently a member of the IBM Research Multimedia Analysis and Retrieval project, which won the 2008 VideoOlympics People's Choice Award, and 2004 Wall Street Journal Innovation Award. He was a member of CMU Informedia project, which won the CMU Newell Award for Research Excellence in 2003. He has got the IBM Research External Recognition Award in 2007. He has served in the NSF Proposal review panel and as reviewers for several other research councils. Dr. Yan has authored or co-authored 5 book chapters and more than 60 international conference and journal papers. Dr. Yan has served or is serving as co-chairs for 7 conferences / workshops and as a Program Committee member in more than 30 ACM / IEEE conferences. Dr. Yan gives tutorials at 6 major conferences and is an expert reviewer for more than 10 international journals. He is a member of ACM.

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All are welcome!

*In case of questions, please contact Dr C W Ngo at Tel: 2784 4390, E-mail: cscwngo@cityu.edu.hk,
or visit the CS Departmental Seminar Web at <http://www.cs.cityu.edu.hk/>.*