

The Future of Multimedia Education and Educational Multimedia

- Panel -

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ABSTRACT

This document introduces a panel for the ACM Workshop on Educational Multimedia and Multimedia Education (ACM EMME 2007) held in conjunction with ACM Multimedia 2007.

Categories and Subject Descriptors

K.3.2 [Computing Milieux]: Computers and Education – Computer and Information Science Education

General Terms

Human Factors.

Keywords

Multimedia education, curriculum, educational multimedia.

1. TOPIC AND FOCUS

Multimedia data is becoming ubiquitous on any computing device from small, handheld devices like PDAs and mobile phones, to medium sized devices such as traditional desktop PCs and laptops, to very large devices such as public information systems with big screens. The growing pervasiveness of multimedia on any computing device increases the relevance of knowledge about multimedia for computer scientists and software engineers. However, the significance of multimedia for the future of computing is generally not reflected in current curricula. For example, few universities offer dedicated courses and multimedia is often only taught as part of other courses such as computer graphics or machine learning. In addition, multimedia is a very active and rapidly changing field. Hence, new and emerging technologies might also have an impact on what we should teach in this area. How should the multimedia community deal with these issues? What are the best ways to teach multimedia? How can we improve multimedia education? Should multimedia be used to teach multimedia? The aim of this panel is to discuss these issues, analyze different opinions, and identify open problems and future directions for multimedia education.

2. PANELISTS

We are very pleased to announce the following panelists:

Susanne Boll. Susanne Boll is Professor for Media Informatics and Multimedia Systems, Department of Computing Science at the University of Oldenburg, Germany. Also since 2002 she is a member of the Oldenburg Research and Development Institute for Information Technology Tools and Systems (OFFIS) where she is heading the Mobile Multimedia research theme. In 2001, Susanne Boll received her doctorate with distinction at the Technical University of Vienna, Austria, which was concerned with the flexible multimedia document model ZYX, designed and realized in the context of a multimedia database system. She received her diploma degree with distinction in computer science at the Technical University of Darmstadt, Germany, in 1996.

Ramesh Jain. Ramesh Jain has been an active researcher in multimedia information systems, image databases, machine vision, and intelligent systems. While professor of computer science and engineering at the University of Michigan, Ann Arbor and the University of California, San Diego, he founded and directed artificial intelligence and visual computing labs. He was also the founding Editor-in-Chief of IEEE MultiMedia magazine and Machine Vision and Applications journal and serves on the editorial boards of several magazines in multimedia, business and image and vision processing. He has co-authored more than 250 research papers in well-respected journals and conference proceedings. Among his co-authored and co-edited books include Machine Vision, a textbook used at several universities. Ramesh has been elected Fellow of ACM, IEEE, IAPR, AAAI, and SPIE.

Max Mühlhäuser. Max Mühlhäuser is a Full Professor of Computer Science at Darmstadt University of Technology, Germany. He received his Doctorate in Informatics from the University of Karlsruhe and founded a research center for Digital Equipment. Since 1989, he worked as either a professor or visiting professor at Universities in Germany, Austria, France, Canada, and the US. Max published more than 180 articles, co-authored and edited books about computer-aided authoring / learning and distributed / multimedia software engineering, and has patents in mCommerce pending. He is a member of GI, ACM, and IEEE.

Timothy K. Shih Dr. Shih (<http://www.mine.tku.edu.tw/chinese/teacher/tshih.htm>) is a professor of the Department of Computer

Science and Information Engineering at Tamkang University, Taiwan and an adjunct professor at National Tsing Hua University, Taiwan. He is a member of ACM. As a senior member of IEEE, Dr. Shih joined the Educational Activities Board of the Computer Society. His current research interests include Multimedia Computing and Distance Learning. Dr. Shih has edited many books and published over 380 papers and book chapters, as well as participated in many international academic activities, including the organization of more than 50 international

conferences. He is the founder and co-editor-in-chief of the International Journal of Distance Education Technologies, published by the Idea Group Publishing, USA. Dr. Shih is the associate editor of ACM Transactions on Internet Technology. He was also the associate editor of IEEE Transactions on Multimedia. Dr. Shih has been invited to give more than 20 keynote speeches and plenary talks in international conferences and tutorials in IEEE ICME 2001/2006 and ACM Multimedia 2002/2007.