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Emerging Issues in Networking/ Telecommunications

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Emerging Issues in Networking/Telecommunications

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DESCRIPTION OF THE TUTORIAL:

In the last few years, networking and telecommunications have seen an unparalleled growth due to the increased amount of research and commercial interests. Some of the crucial events leading to this explosive growth include the commercialization of the Internet, the advent of multimedia, the growth of wireless networks, the multiple satellite based project Iridium from Motorola, and probably the most important of all is the latest telecommunications reform act of 1996.

This tutorial is an attempt to provide the information systems professionals with the information they need to advance in their chosen career. The tutorial will present an introduction to the state of the art in networking and telecommunications, the current research problems and possible solutions, and the commercial impacts of these technologies.

The tutorial will cover the following topics:

1. Network Applications including nomadic (mobile) computing, telemedicine, teleconferencing, World Wide Web, distance education, smart buildings, videoondemand.
2. Current and Emerging Network Infrastructure including the Internet, ATM networks, SONET, wireless and satellite networks, digital local loops.
3. Commercial Implications
4. The Future including the possible merger of local and long distance phone companies, cable TV companies, entertainment companies, hardware and software vendors to create few big allinaces to build infrastructure and provide services.

THE INTENDED AUDIENCE:

The tutorial will benefit information systems professionals who have interest in networking services, design, implementation, academic research, management, investment, or because they simply

want to know more about networking for advancing their careers.

HANDOUTS AND OTHER MATERIAL:

The audience will be provided with the copies of slides used in the tutorial along with a list of useful papers and books to continue their professional development in these areas.

BIOGRAPHY OF THE PRESENTER:

Dr. Upkar Varshney is an Assistant Professor at Washburn University of Topeka, KS. His research/teaching interests include high speed networking, business data communications and networking, the Internet, multimedia, ATM, and mobile computing.

Prior to joining the faculty at Washburn in 1994, he was a Research Associate at the Center for Telecomputing Research, University of Missouri-Kansas City. He holds a B.S. in Electrical Engineering from University of Roorkee, an M.S. in Computer Science and a Ph.D. in Telecommunications and Networking, both from University of Missouri-Kansas City.

Professor Varshney is the designer of a Networking Program at Washburn and has written over 20 journal, magazine and conference papers. He is a member of several organizations including IEEE and ACM.

He has spoken at many national and international conferences, organizations and universities. He has designed and taught several regular and short term courses, tutorials, and workshops in networking and telecommunications.