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Current Mobile Wireless Services and Technology: Trend

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The purpose of this panel is to invite academicians and practitioners who have “expertise” in the area of wireless and mobile themes and to deliver current mobile and wireless issues and trend. These themes include mobile commerce and services, wireless information systems, cellular and DMB phone services, consolidation and M & A of cellular service providers, among others.

While e-business continues to impact the global business environment, the focus has been directed towards wireless mobile computing. Telecommunication is perhaps the key to all interconnection, information systems, and mobile devices. While countries such as Japan, Korea, and many European nationals are moving quickly and successfully in developing and establishing mobile business markets in the telecommunications industry, the United States has found itself somewhat behind in the race to establish a functional and supportive infrastructure for m-business. The purpose of this special session is to present “mobile wireless services and technology.” Invited panelists will deliver various topics.

J. P. Shim (Professor of MIS at Mississippi State University): Overview of Cellular and DMB Services

This presentation will cover several issues of worldwide mobile wireless services, e.g., current status of Digital Audio Broadcasting (DAB) and Terrestrial Digital Multimedia Broadcasting (TDMB) services, Satellite Digital Multimedia Broadcasting (SDMB) service, renewal of the handset, wireless mobile user satisfaction, trends, and others.

Upkar Varshney (Professor of CIS at Georgia State University): Evolution of Wireless Networks.

In this panel, we will discuss the evolution of wireless and mobile networks. This will include 3G and 4G wireless networks. More specifically, we will look into network architectures for 4G wireless networks. We will also discuss many reasons behind a growing interest in 4G networks such as the need for roaming across heterogeneous wireless networks and packet-switched wireless communications. The factors that distinguish the 4G networks are roaming across networks, IP interoperability, and higher speeds. 4G networks are scheduled for deployment between 2008 and 2010.

Sasha Dekleva (Professor of MIS at DePaul University) will present WiMAX and related issues.

The promoters of WiMAX technology, which promises service range of up to 50 km with shared data rates of 70 Mbps, have built expectations very high. However, even before certification for compliance with still evolving standards started, “pre-standard” products are being implemented, including South Korea’s proprietary technology WiBro.

Geoffrey Knoerzer (Vice President of Verizon Wireless) will present today's mobile wireless market.

Wireless communications have evolved over the past 20 years from a voice service to a feature rich voice and data environment. In some cases, the services are beneficial to the Customer and provide beneficial time savings to stay in touch with business colleagues and family members. In other instances, the Customer is faced with technology overload and uncertainty for the “right” service package.

Robert C. Nickerson (Professor of MIS at San Francisco State University) will present issues in wireless service and technology.

This presentation will look at key issues of wireless service and technology, such as security, viruses, control over location device data, and others. The status of current issues will be examined. The panelist will identify what issues still need to be resolved and what new issues have arisen in recent years.