Editorial

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Biographical notes: Shiguo Lian received his PhD from Nanjing University of Science and Technology, China. He was a Research Assistant at the City University of Hong Kong in 2004. Since July 2005, he has been a Research Scientist at France Telecom R&D (Orange Labs) Beijing. He is the author of more than 90 refereed international journal and conference papers covering topics of secure multimedia communication, intelligent multimedia services, and ubiquitous computing and communication. He has authored/edited six books, contributed 15 book chapters and held 16 patents. He was awarded with the Nomination Prize of 'Innovation Prize in France Telecom' and 'Top 100 Doctorate Dissertation in Jiangsu Province' in 2006.

Frank Y. Shih received his BS degree from the National Cheng-Kung University, Taiwan, his MS degree from State University of New York, Stony Brook, and his PhD from Purdue University. He is presently a Professor at New Jersey Institute of Technology, USA. He is an internationally well-known scholar and served as a steering member, committee member and Session Chair for numerous professional conferences and workshops. He has authored three books: *Digital Watermarking and Steganography*, *Image Processing and Mathematical Morphology* and *Image Processing and Pattern Recognition*, and has published over 200 papers. His research interests include image processing, computer vision, watermarking, digital forensics and pattern recognition.

1 Introduction

This issue is composed of five papers contributed by both our editorial board members and regular submissions. All these papers have been blind-reviewed by at least two reviewers. They cover the interesting topics, e.g., multimedia sensor networks, digital watermarking, video retrieval, IP multimedia subsystem, certificate image verification, etc.

2   The papers in this issue

The first paper, 'The new challenge: mobile multimedia sensor networks' by L. Shu et al. reviews the interesting research topic, mobile multimedia sensor networks (MMSNs) by presenting a number of challenging issues that may appear in MMSNs in terms of enhancing diverse quality of services (QoS) and prolonging the network lifetime for both wireless sensor networks (WSNs) and multimedia communication research communities. This topic appeared recently, and is the combination of traditional WSNs and multimedia communication.

In the second paper, 'Security analysis of SVD-based watermarking techniques' by V. Pomponiu and D. Cavagnino, the security of singular value decomposition (SVD)-based watermarking techniques is analysed. In this kind of watermarking, SVD is used to construct information hiding schemes. Although the performances of robustness, capacity and imperceptibility have been investigated, the crucial constraint, the security, has not been considered. This paper proposes two kinds of attacks to break SVD-based watermarking schemes, and shows that most of the watermarking schemes based on SVD are insecure and should be improved for practical applications.

The third paper, 'A content-based video retrieval system: video retrieval with extensive features' by P. Rajendran and T. Shanmugam proposes a proficient system based on extensive features to enhance the efficiency of video retrieval. Some comparative results are given to show that the selected extensive features with a combination of exact similarity measure only can enhance the retrieval efficiency. The content-based video search and retrieval is becoming a challenging and important research topic. This paper is expected to provide interesting information to readers.

In the fourth paper, 'IMS management and monitoring with eTOM framework and composite web service' by R. Brahim et al., a system level monitoring and management (SLM&M) architecture is designed to monitor supply scenario of multimedia service in IMS network. This system is able to collect management information, monitor the network behaviour after delivery, correct and anticipate degradations before failures occur at customer premises. The performance, e.g., the response time in information collection, is tested in simulation.

The fifth paper, 'Data hiding in colour image applied in certificate verification' by G. Nian and H. Liu proposes a certificate image verification method based on data hiding. In this method, the personal identification information is embedded into personal certificate pictures, which is able to identify the person even after picture printing and scanning. Experimental results are given to show the method's performances. The work brings interesting solution for practical applications.