
FOREWORD

Special Section on Multimedia and Mobile Signal Processing

Signal processing has become important technologies in multimedia, mobile and wireless communication systems, stand-alone intelligent systems, and so on. In these systems, the following directions of research and development have been strongly required: Integration of many kinds of signals such as speech/audio signals and image/video signals, adapting their functions and performances to a variety of time varying environments, and fast and stable learning algorithms and minimizing the computational load. The signal processing technologies are optimized for this purpose, and new approaches based on statistics and singular value decomposition are tried.

Considering these situations, we planed a Special Section on Multimedia and Mobile Signal Processing. In response of the call for papers, 28 papers and 2 letters were submitted, and 10 papers were accepted for publication under a careful review process. These papers widely cover the areas of signal processing algorithms, multimedia, mobile and wireless communications, image/video and speech/audio signal processing.

As the Guest Editor of this Special Section, I would like to express my deep thanks to all the authors who submitted to this special section. I would also like to thank to the reviewers and the associate editors of this special section for their cooperation in spite of a limited time due to the tight schedule for special section. Finally, I would like to express my sincere thanks to Dr. Eisuke Horita for his excellent secretarial works.

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Kenji Nakayama, Guest Editor

Kenji Nakayama (*Member*) received the B.E. and Dr. degrees in electronics engineering from Tokyo Institute of Technology (TIT), Tokyo, Japan, in 1971 and 1983, respectively. From 1971 to 1972 he was engaged in the research on classical network theory in TIT. He was involved in NEC Corporation from 1972 to 1988, where his research subjects were filter design methodology and digital signal processing. He joined the Department of Electrical and Computer Engineering at Kanazawa University, in Aug. 1998. He is currently a Professor of Graduate School of Natural Science and Technology. He has served as the Director of the International Student Center from 2003 through 2004. His current research interests include signal processing, adaptive signal processing and artificial neural networks. He is a senior member of IEEE and a member of INNS and RISP, Japan.

