
FOREWORD

Special Section on Mobile Information Network



M. Hatori



M. Sengoku

The mobile communications or the mobile information network have been one of the most active research areas in the last several years. The future trends in research and development of mobile communications can be divided into two phases: development of PDC (personal digital cellular telecommunication system) and PHS (personal handyphone system) known as the 2nd generation system, and FPLMTS (future public land mobile telecommunication systems) or UPT (universal personal telecommunications) known as the 3rd generation system.

The following are main technologies in developing of PDC. (1) Roaming services in many service areas. (2) High performance using the digital signal processing technology. (3) Low power mobile terminals, etc. In the 3rd generation system, the standardization for FPLMTS and UPT will be very important to facilitate international use of mobile terminals and the following are main research topics. (1) Frequency management plan for cellulars, micro-cellulars and pico-cellulars based system. (2) Power control schemes to eliminate interference. (3) Terminal mobility and personal mobility. (4) Advanced intelligent network, etc.

This special section on mobile information network is edited focusing on some topics mentioned above. It consists of three invited papers and seven regular papers which are selected out of fifteen submissions. We believe that these papers include a lot of interesting information on mobile information network technology.

Our sincere appreciation and gratitude are extended to all authors for their efforts in preparing and revising the manuscripts for this special section. The editorial committee of this special section was supported by twenty seven reviewers. We would like to express our sincere thanks for their great effort expended in the editorial work. We would also like to thank all the members of the editorial committee of this special section.

The members of the editorial committee of this section are

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Mitsutoshi Hatori and Masakazu Sengoku, Guest Editors

Mitsutoshi Hatori (*Member*) is a Professor of Department of Information and Communication Engineering, Faculty of Engineering, The University of Tokyo.

1963 Received his Bachelor's Degree from The University of Tokyo.

1965 Received his Master's Degree from The University of Tokyo.

1968 Received his Doctorate Degree from The University of Tokyo.

1968 Lecturer, Department of Electrical Engineering, Faculty of Engineering, The University of Tokyo.

1969 Associate Professor, The University of Tokyo.

1986 Professor, The University of Tokyo.

He is a member of the Telecommunication Technology Council at the Ministry of Posts and Telecommunications of Japan, a member of the telecommunication technology committee at NTT, a member of broadcasting technology council at NHK, and was the vice-president of the Institute of Television Engineers of Japan. He received Excellent Paper Awards from the Institute of Electronic, Information and Communication Engineers of Japan in 1969, 1980 and 1986 and an Excellent Paper Award as well as an achievement award from the Institute of Television Engineers of Japan in 1991 and 1987, respectively. He received an official commendation from the Minister of Posts and Telecommunications of Japan for contributions to the advancement of informatization in 1990, and for contributions to the distinctive merit in radio communication and broadcasting technologies in 1995.

Masakazu Sengoku (*Member*) was born in Nagano prefecture, Japan, on October 18, 1944. He received the B.E. degree in electrical engineering from Niigata University, Niigata Japan, in 1967, and the M.E. and Dr.Eng. degrees in electronic engineering from Hokkaido University in 1969 and 1972, respectively. In 1972, he joined the staff at the Department of Electronic Engineering, Hokkaido University as a Research Associate. In 1978, he was an Associate Professor at the Department Information Engineering, Niigata University, where he is presently a Professor. In 1986, he was a visiting scholar at University of California, Berkeley and University of Illinois at Chicago. His research interests include network theory, graph theory, transmission of information and mobile communications. He received the 1992 Best Paper Award from IEICE. He is currently the chairperson of the IEICE (dai-2-shu) Technical Group on Multi-dimensional Mobile information Networks and the vice-chairperson of the IEICE Technical Group on Circuits and Systems. Dr. Sengoku is a member of IEEE and the Information Processing Society of Japan.
