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## FOREWORD

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### Special Section on Signal Design and Its Applications in Communications

Signal design plays a very important role in widespread applications in modern communications, such as spread spectrum, CDMA, MIMO channel estimation, pre-coding, OFDMA, positioning, synchronization, etc. This special section aims to stimulating research in the areas of signal design and its various applications in communications, and to foster fruitful interactions among signal designers, coding theorists, cryptographic researchers and communications practitioners from all over the world.

The special section includes five regular papers including an invited paper, and two letters, covering a variety of topics of signal design and its applications. These published papers were selected among 11 papers, either from free submissions or from the papers presented at the Ninth International Workshop on Signal Design and Its Applications in Communications (IWSDA'19) held in Dongguan, China, from October 20 to 24, 2019, all with careful reviews by technical experts worldwide.

The guest editors-in-chief of this special section are grateful to all the reviewers for their dedicated efforts, all the authors for their contributions, all the members of the editorial committee listed below, for their hard work in making this special section possible, and the ESS Society of IEICE, IEEE (USA) for their consistent cooperation. Besides, we are indebted to the support of NSFC (No. 61731017 and No. 62020106001) and 111 project (No.111-2-14).

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Pingzhi Fan and Tetsuya Kojima, Guest Editors-in-Chief

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**Pingzhi Fan** (*Member*) received his MSc degree from Southwest Jiaotong University, China, in 1987, and PhD degree from the Hull University, U.K., in 1994, in computer science and electronic engineering, respectively. He is currently a distinguished professor and director of the institute of mobile communications, Southwest Jiaotong University, China. He is the author of over 300 English journal papers, and 8 books (incl. edited) published by John Wiley & Sons Ltd, RSP, IEEE Press, Springer, Nova Science, etc. His research interests include coding theory and wireless communications.



**Tetsuya Kojima** (*Senior Member*) received the B.E., M.E., and D.E. degrees in information engineering from Hokkaido University, Sapporo, Japan, in 1992, 1994 and 1997, respectively. From 1997 to 2001, he was with the Graduate School of Information Systems, the University of Electro-Communications, Tokyo, Japan as a research associate. In 2001, he joined the Department of Computer Science, National Institute of Technology, Tokyo College, Tokyo, Japan, as research associate, and is currently a professor. His research interests include the wireless communication systems, information hiding and information theory. He is a member of IEEE.

