Editorial
Special Section on Selected Papers From ISICAS 2020

THIS special issue of the IEEE TRANSACTIONS ON BIOMEDICAL CIRCUITS AND SYSTEMS (TBioCAS) presents the high-quality research papers that were presented during the December 9-11, 2020 INTERNATIONAL SYMPOSIUM ON INTEGRATED CIRCUITS AND SYSTEMS (ISICAS), in a virtual conference held from December 9-11, 2020. The ISICAS invited original work in the areas of integrated circuits and systems, including topics such as analog, digital, power, energy, biomedical, sensor interfaces, and communication systems. As with the previous editions, the 2020 symposium did not produce proceedings as all accepted papers were published to four special issues including this one. The other three special issues are published by IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I: REGULAR PAPERS, IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II: EXPRESS BRIEFS, and IEEE OPEN JOURNAL OF CIRCUITS AND SYSTEMS respectively. TBioCAS received a total of 20 papers for ISICAS 2020. Out of these, four papers were accepted after a thorough review process, resulting in an acceptance rate of 20%. These four papers were accepted after multiple rounds of peer review. The papers cover several topics and can be combined in two broad categories, as follows:

Biomedical Instrumentation:

1) "Current-mode Dielectric Spectroscopy for Liquid Permittivity Measurement", by Hongkie Lim, Dong-Ho Lee, Jusung Kim, and Songcheol Hong, from Korea Advanced Institute of Science and Technology (KAIST) and Hanbat National University, South Korea.
2) "A 4-μW Analog Front End Achieving 2.4 NEF for Long-Term ECG Monitoring", by Wendi Yang, Hanjun Jiang, Member, Yue Yin, and Zhihua Wang, Tsinghua University, China.
3) "A Mixed-Signal Chip-Based Configurable Coherent Photoacoustic-Radar Sensing Platform for *In Vivo* Temperature Monitoring and Vital Signs Detection", by Zhongyuan Fang, Chuanshi Yang, Zesheng Zheng, Haoran Jin, Kai Tang, Liheng Lou, Xiaoyan Tang, Wensong Wang, and Yuanjin Zheng, from Nanyang Technological University, Singapore.

Hardware for Biomedical Signal Processing:

4) "RISC-V CNN Coprocessor for Real-Time Epilepsy Detection in Wearable Application", by Shuenn-Yuh Lee, Yi-Wen Hung, Yao-Tse Chang, Chou-Ching Lin, and Gia-Shing Shieh, from National Cheng Kung University and Tainan Hospital, Taiwan.

The editorial team would like to thank the ISICAS 2020 and Technical Program Committee members for soliciting high-quality papers in the symposium and organizing the conference and our colleagues that helped us in the review process of the papers. We also wish to thank the IEEE support staff for their efforts in finalizing this special issue.

T. G. CONSTANDINOU, *Associate Editor-in-Chief*
Department of Electrical and Electronic Engineering
Imperial College London
London SW7 2AZ, U.K.

K.-T. TANG, *Associate Editor-in-Chief*
Department of Electrical Engineering
National Tsing Hua University
Hsinchu 30013, Taiwan

G. WANG, *Editor-in-Chief*
School of Microelectronics
Shanghai Jiao Tong University
Shanghai 200240, China

Digital Object Identifier 10.1109/TBCAS.2021.3107968

1932-4545 © 2021 IEEE. Personal use is permitted, but republication/redistribution requires IEEE permission.
See https://www.ieee.org/publications/rights/index.html for more information.