

# IEEE Transactions on Consumer Electronics

## Call for Papers

### Special Section on “Consumer Technologies in System Biology and Biomedical System”

#### Theme:

The main objective of this special section is to provide insights into the latest consumer technologies in system biology and biomedical systems that offer consumers with automated solutions for health monitoring as well as disease management. A wide variety of smart consumer electronics devices serve a diverse range of functions from health general health assessment to infectious disease management and prevention as demonstrated in the global pandemic. In the broad context of consumer technology for system biology and biomedical systems applications, efficient and reliable wireless communication and sensing networks have been serving as an important backbone for supporting these services as more healthcare applications are made commercially available in the consumer healthcare industry.

The ability to design and implement consumer technologies in a mass-produced CE product helps keep consumers safe and healthy. At the same time, operational reliability helps manufacturers minimize the cost of providing warranty support.

#### Topics of interest in this Special Section include (but are not limited to):

- Consumer health technologies in smart city integration
- Health and/or pathogen sensing technologies and solutions
- AI driven consumer electronic devices and systems
- Smart and assistive healthcare systems in consumer electronics
- Highly integrated CE devices and solutions for smart health
- Energy-efficient ICs for body area networks and/or wireless communications
- Novel multimedia processing for consumer health monitoring
- Self-powered health monitoring CE devices
- Health applications such as baby monitoring, eSport and elderly care

#### Important dates:

- End of submission of Manuscripts: **December 1, 2022**
- Expected publication date (tentative): June 2023

#### Guest Editors:

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#### Instructions for authors:

Manuscripts should be prepared following guidelines at: <https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html> and must be submitted online following the IEEE Transactions on Consumer Electronics instructions: <https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html>. During submission, the Special Section on “**Consumer Technologies in System Biology and Biomedical System**” should be selected.