# From the EIC

# From Smartphones to Wearable Devices

**This issue of** *Design&Test* focuses on design and test of distributed systems. According to the heterogeneous nature, such systems will need heterogeneous computing resources to satisfy a wide variety of often contradicting design constraints such as low power, which makes designing them a particularly complex task. Besides two surveys, one titled "A Survey on Energy Management for Mobile and IoT Devices" and another titled "Dynamic Energy and Thermal Management of Multicore Mobile Platforms: A Survey," the Guest Editors Umit Y. Ogras, Sudeep Pasricha, Michael Kishinevsky, and Raid Ayoub present us four regular special issue research articles. We would like to thank the Guest Editors for this timely special issue.

Besides, we have three general-interest articles:

- Increasing the security is the goal of "A Data-Based Detection Method Against False Data Injection Attacks" by Konstantinou and Maniatakos. It deals with state estimation to detect false data injections.
- Increasing the safety is the goal of "Vulnerability of Hardware Neural Networks to Dynamic Operation Point Variations" where Lin et al. make the case of safety problems related to physical variations the NN is running on.
- "Event-Triggered Sensing for High-Quality and Low-Power Cardiovascular Monitoring Systems" by Surrel et al. presents an approach for non-Nyquist sampling for health monitoring.

As always, we would like to thank Theo Theocharides for the TTTC newsletter and last but not least thanks to Scott Davidson for The Last Byte article titled "Transitional Phones."

Enjoy reading! ■

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