Special Issue

Recent Advances in Sensors and Sensing System Design

Message from the Guest Editor

Sensors are used throughout society, including industry, public life, environment, disaster prevention, medical care, etc., and their range is gradually expanding. Much research is ongoing to design and develop different types of sensors. However, most sensors have the following disadvantages: short dynamic range, long response time, a complex sensing mechanism, bulky form, poor reproducibility, poor reliability, poor selectivity, and cost. The performance of sensors is also widely conditioned by reading electronic circuit technologies. Because of this, special consideration must be given to interface circuits and systems and the difficulties associated with technology scalability and various technological integrations. To obtain the highest sensor performance, interface design has become crucial, particularly concerning the analog front-end and innovative and smart architecture that must be investigated and validated at the simulation and prototype levels. This Special Issue aims to examine possible solutions for a reliable sensor with interface circuits and systems design. It also aims to discuss and emphasize recent developments on this subject.

Guest Editor

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