Printed Devices for Industrial and Medical IoT

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Message from the Guest Editors

In the near future, there will be a strong demand for sensors and IoT devices integrated on any object with arbitrary size and shape in order to provide new and improved instruments. In this frame, innovative manufacturing technologies, such as printed electronics and additive manufacturing, represent a viable solution for the design and fabrication of such devices and instruments, and to embed them on different 2D and 3D substrates. These technologies are modernizing many application fields such as wearable devices, Industry 4 0, and IoT thanks to their ability to recognize both physical and chemical quantities that facilitate the better monitoring of human health and industrial production processes. In fact, printed electronics offer techniques for the production and integration of unconventional sensors and electronic systems or to make conventional objects "intelligent".

Consequently, this Special Issue encourages the presentation of integrated devices and sensors produced by additive manufacturing technologies (e.g., screen printing, inkjet printing, aerosol jet printing, etc.) for industrial and biomedical applications.

Special Issue

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Message from the Editor-in-Chief

The realization of dedicated instrumentation has always been a collateral aspect of experimental research. In addition, many groups dedicate efforts and resources solely to the development of new devices, sensors, equipment and large infrastructure, theoretical and numerical studies, and novel experimental methodologies. With Instruments we wish to address both established and emerging communities, also to favor the creation of innovative trans-disciplinary approaches. We see Instruments as an exciting high-impact journal that will soon hold a leading position in disseminating cutting edge scientific and technological research.

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