

Call for Papers

Special Issue on Sensors for Sustainable Future

Sensors are needed in almost every socio-economic sector ranging from consumer electronics, automotive, IT and telecom, agroforestry, aquaculture, environment monitoring, and digital agriculture etc. Some of these fields are also closely related to the 17 sustainable development goals (SDGs). Thus, the sensors benefit the society in many ways and helping to overcome the global challenges. At the same time, there is need to ensure that the advances in sensor technology do not adversely impact the environment. In this regard, there is growing realisation for transitioning towards circular and sustainable electronics, design of materials, using easily available materials and developing resource efficient fabrication processes. This special issue (SI) covers all aspects related to sensor development and applications that promote low carbon emissions and environmental footprint. The sensor applications contributing towards net-zero goals are within the scope of this special issue. This Special Issue will offer the authors a timely opportunity to submit their work on the theoretical, technological, experimental and application aspects of various types of sensors. Some of the indicative topics for this SI are given below.

Topics

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| - Bioderived materials | manufacturing | metal) |
| - Plant-e-tronics | - Eco-friendly batteries and energy harvesters | - Life cycle analysis |
| - Printed Electronics | - Printable batteries, energy harvesters | - Environment Monitoring |
| - Circular Electronics | - Wearables for global health | - Smart Packaging |
| - Transient Electronics | - Sensors for food security (e.g., sensor practices to reduce post-harvest loss) | - Sensing for Clean water |
| - Green Sensors and Electronics | - Smart tags from eco-friendly materials (less use of precious | - Digital and Precision Agri/aquaculture (e.g., using transient sensors) |
| - Sensors for health monitoring | | - Sensors in disaster management |
| - Sensors applications for SGDs | | - Efficient processing of data |
| - Sensors and interfaces designed for sustainability | | |
| - Resource efficient | | |

Important dates (tentative)

Sept 1, 2023:	Deadline for Paper Submission
Nov 30, 2023:	Completion of First Review
Feb 29, 2024:	Completion of Final Review
April 2024:	Publication

Upon acceptance papers appear as Early Access (preprints) in IEEExplore and are fully citable.

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Submission and Peer Review of Papers

All papers shall undergo the standard IEEE Sensors Journal peer-review process. *Manuscript must include a statement in the abstract and a section titled 'Relevance to Sustainability' to justify how the work contributes towards sustainability or eco-friendliness or addresses the climate change issue.* Manuscripts must be submitted online, via the *IEEE Manuscript Central*TM, see <http://mc.manuscriptcentral.com/sensors>. When submitting, please indicate in the "Manuscript Type" roll down menu that the paper is intended for the "Sensors for Sustainable Future" Special Issue. Authors are particularly encouraged to **suggest names of potential reviewers** for their manuscripts in the space provided for these recommendations in *Manuscript Central*. For manuscript preparation and submission, please follow the guidelines in the *Information for Authors* at the IEEE Sensors Journal web page, <http://www.ieee-sensors.org/journals>