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Data Processing of Intelligent Sensors

Guest Editors:

Prof. Dr. Luciano Sánchez

Computer Science Department, Universidad de Oviedo, E.P.I. Gijón. Sedes Departamentales 1.1.28. 33202 Gijón, Spain

Dr. José Ranilla Pastor

Computer Science Department, Universidad de Oviedo, E.P.I. Gijón. Sedes Departamentales 1.1.04. 33202 Gijón, Spain

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Message from the Guest Editors

Intelligent or smart sensors make use of dedicated signal processing components, either to improve the characteristics of the sensor device or to enhance the signal. Although this is a well-established technology, present-day sensors pose new challenges and can benefit from the application of Artificial Intelligence (AI) techniques to digital data processing. This Special Issue addresses the application of AI to data processing at a sensor level, with special interest in the following (non-exclusive) list of aspects:

- Handling in real time huge volumes of data;
- Online extraction of features and intelligent signal conditioning at the sensor level;
- Dealing with uncertain, imprecise and incomplete information;
- Resilience to sensor failures through redundancy and information fusion, with special interest in unattended systems, life-supporting and other critical equipment;
- Sofware sensors for health monitoring and remaining useful life estimation of complex equipment;
- Energy-efficient software for autonomous and battery operated environments;
- Ecoefficiency and life-cycle concerns in sensor systems design.









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Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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