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Novel Magnetic Sensors and Applications

Guest Editors:

Dr. Jie Xu

College of Physics, Qingdao University, Qingdao 266071, China

Prof. Dr. Shandong Li

National Demonstration Center for Experimental Applied Physics Education, Qingdao University, Qingdao 266071, China

Dr. Xuekui Xi

Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China

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Message from the Guest Editors

Magnetic sensors are a special kind of sensors, which are widely used in automobile, aerospace, the Internet of Things, consumer electronics and other industries. In recent years, traditional magnetic sensors based on magnetoresistance, electromagnetic induction and other principles, such as the Hall effect, giant magnetoresistance, tunneling magnetoresistance, fluxgate meter, etc., have had their performance improved. Sensors based on novel principles, such as diamond NV-center magnetometers, optical pumping atomic magnetometer, superconducting quantum interference magnetometer, magnetoelectric coupling effect, magneto-optical effect, optical fiber magnetoelastic composite sensor, are developing rapidly. This Special Issue aims to collect the latest research progress of traditional and novel sensors, as well as their latest application progress in biological detection, weak magnetic field measurement, resource exploration, nondestructive testing and other fields, and to provide a platform for scientists to engage in the research and application of magnetic sensors and to exchange and display knowledge.













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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

Message from the Editor-in-Chief

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