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Recent Advances in Magnetic Sensors: Materials, Design and Applications

Guest Editors:

Dr. Xin Zhuang

Key Laboratory of Electromagnetic Radiation and Sensing Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing 100190, China

Dr. Chung Ming Leung

School of Mechanical Engineering and Automation, Harbin Institute of Technology, Shenzhen 518055, China

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Message from the Guest Editors

Magnetic sensors are widely used in a variety of activities in the fields of geophysical observations, space and deep-sea explorations. navigation, electric grids. mineral prospection, archeology, clinical medicine, and industrial applications. Most of the applications rely on the identification of weak magnetic variations in time and/or in space by means of differential or gradient measurements. The ultimate resolution of these measurements is limited by the intrinsic noise levels in the magnetic sensors, which are relevant to the working principle, material, size, weight, power consumption, etc. The advances in material science and technology over the last several decades have enabled the construction of magnetic sensors of increased sensitivity.

This Special Issue will be a detailed overview of the recent research and development of the materials, design, and applications of magnetic sensors. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews related to this topic are all welcome













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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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