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Magnetic Sensors and Systems for Scientific and Industrial Applications

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Message from the Guest Editor

Dear Colleagues,

The global market for magnetic field sensors is expected to grow due to presence of a large automotive industry. Moreover, new development in advanced world-scale scientific experimental equipment require precise magnetic diagnostics in harsh environments. Therefore, the development of new magnetic sensor technologies with increased capabilities and wider ranges of operation is of great importance.

Despite the widespread use of Lorentz force-based magnetic sensors, an increasing interest in magnetic sensors based on so-called magnetoresistive xMR effects suggests a possibility to integrate them with standard microelectronics technologies and to develop sensors systems with higher precision and lower dimensions of single component. Each application has specific requirements for sensor fabrication technology, device specifications, magnetic field and temperature ranges of operation, and sensor accuracy.

Therefore, we invite the international community from academia to present their recent developments. For further information, please visit mdpi.com/si/44335.



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Special Issue



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Message from the Editor-in-Chief

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