Magnetic sensors are widely used in sensing devices and account for a significant proportion of the sensor technologies used in many different fields. Magnetic sensors are used in both digital and analog measurement devices. For example, magnetoresistance is utilized not only in the read head sensors of digital devices, but also in geomagnetic field sensors to create compasses for analog devices. The development of magnetic sensors is dependent on advances in materials, device structures, and readout circuits to create convenient and high-performance devices. This special issue aims to provide a comprehensive overview of magnetic sensor device technology and its wide-ranging applications in a variety of fields from information to biomeasurements.

**Scope:**
- Magnetoresistance sensors
- Hall sensors
- Magneto-impedance sensors
- SQUIDs
- Flux gate sensors
- Magnetic sensor circuits
- Magnetic sensor probes
- Magnetic field detection
- Biomagnetic measurement
- Nondestructive testing
- Exploration
- Magnetic monitoring

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