Special Issue

The Next Generation of Magnetometer Microsystems and Applications, 2nd Edition

Message from the Guest Editors

Magnetic field sensors, including superconducting quantum interference devices (SQUIDs), giant magnetoresistance (GMR), SERF (spin exchange relaxation-free), Hall sensors, as well as NV magnetometers, are indispensable in a wide range of industrial and scientific fields. Nowadays, femtotesla fetotesla to picotesla sensitivity under various conditions has been achieved using the magnetometers mentioned above with a small volume, especially in cardiac magnetography and magnetoencephalography, geomagnetic measurements, metal contaminant detection, etc. Therefore, the focus of this Special Issue is on promising portable magnetometers and their application by decreasing the sensing volume and enhancing magnetic field sensitivity with integrated technologies, MEMS, chip-scale processing, and even microsystem technologies. This Special Issue calls for original research papers and reviews detailing state-of-the-art results on these topics.

Guest Editors

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