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IEEE Sensors Journal

Special issue on

In Vivo Sensors for Medicine

Medical sensors are gaining significance in clinical medicine for *in vivo* applications. Chronically implanted sensors for disease states such as cancer, diabetes, and heart disease are being tested in patients. Such devices augment the well-established portfolio of electronic products in areas such as cardiac pacing and drug delivery. Products involving acute use in patients, such as percutaneous or fully implantable glucose sensors, camera endoscopy capsules, and gastric pH monitoring devices, are emerging to augment this growing field. Finally, sensors that interface with neuronal tissue promise an exciting new field for inquiry in applications such as artificial retinas and, more generally, in understanding and modulating brain functions.

It is intended that this Special Issue of the IEEE Sensors Journal will showcase state-of-the-art sensors in these exciting application areas and will be of interest to researchers in academia and industry. Original research contributions and review papers are sought for a broad range of sensor types. Medical sensors that draw on detection methods that probe optical, galvanometric, ionizing radiation, RF, and ultrasonic source signals are appropriate. (For sake of focus, papers on radiological imaging methods and systems will not be considered.)

Solicited and invited papers will undergo the standard IEEE Sensors Journal peer review process. All manuscripts must be submitted on-line via the *IEEE Manuscript Central*TM process (<http://sensors-ieee.manuscriptcentral.com>). Upon submission, please indicate in the Author Comments section, and also by e-mail to Ms. Linda Matarazzo (l.matarazzo@ieee.org), that the paper is intended for this Special Issue. Authors are encouraged to **suggest names of potential reviewers** for their manuscripts in the space provided for this purpose in *Manuscript Central*. For manuscript preparation and submission, please follow the guidelines in the *Information for Authors* section at the IEEE Sensors Journal web page (<http://www.ieee.org/sensors>).

Deadlines:

- Manuscript Submission: January 15, 2007
- First Decision: May 15, 2007
- Notification of Acceptance: July 15, 2007
- Final Manuscript due: August 15, 2007
- Tentative publication date: December, 2007

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