



## Call for Papers IEEE Sensors Journal Special Issue on

### Sensors for the Prevention of Terrorist Acts

Detecting chemical, biological, radiological and nuclear materials, and explosives

**Manuscript submission deadline: February 1, 2004**

Hardly a week goes by without a terrorist incident occurring somewhere in the world. The problem of preventing terrorism and terrorist acts based on the use of technology is a difficult one partly because terrorists can attack an almost infinite array of potential targets. Governments have no more important task than to protect their citizens. Therefore, defense against terrorism is a high priority for many nations. Technology in general, and sensor technology in particular, can be a major component of reducing the threat. Counterterrorism research and development funding has increased significantly since the attacks on the World Trade Center on September 11, 2001. It is hoped that this increased research activity will lead to a safer world. The purpose of this Special Issue is to summarize recent advances in this important sensor application area and to inspire the sensor community to make even greater contributions to this area in the future.

We invite original research contributions and review articles on sensors that are useful for thwarting or preventing terrorism and terrorist acts. The following topics are representative of the scope of this issue:

- Reviews of the threats and sensor needs
- Chemical sensors
- Biological sensors
- Radiological sensors
- Nuclear detectors
- Sensors for explosives, especially of trace explosives
- Stand-off detection methods
- Sensor networks
- Threat data mining
- Methods for improving lifetime and reliability
- Sensor data fusion and threat prediction
- Testing methods for sensor verification and validation

Papers shall undergo the standard IEEE Sensors Journal peer review process. All manuscripts must be submitted on-line, via the *IEEE Manuscript Central*<sup>TM</sup>, see <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](mailto:l.matarazzo@ieee.org), that the paper is intended for this Special Issue. Authors for this Special Issue are encouraged to **suggest names of potential reviewers** for their manuscripts in the space provided for these recommendations in *Manuscript Central*. For manuscript preparation and submission, please follow the guidelines in the *Information for Authors* at the IEEE Sensors Journal web page, <http://www.ieee.org/sensors>.

#### Deadlines:

*Manuscript Submission:* February 1, 2004

*Notification of Acceptance:* April 1, 2004

*Final Manuscript due:* May 15, 2004

*Tentative publication date:* October 2004

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