Urbanization growing globally has brought in a need to rethink how future cities and infrastructures will look like. A future urban infrastructure should be able to cater for diverse socio-economic needs relating to aspects such as energy use, environment and natural resources, health and well-being, safety and transportation. In particular, sensing technologies will play a critical role in realizing smart and sustainable urban infrastructures, for instance for monitoring and intelligent decision-making, sensor-driven actuation of urban control processes, as well as driving big urban sensor data solutions.

Potential topics for contributions to this special issue may include (but are not limited to):

- innovative sensor technologies
- sensor processing techniques
- sensor architectures and interfaces
- connected sensors
- sensor-driven analytics and services
- Big Sensor Data solutions

These topics should be addressed in relation to intelligent urban infrastructure domains such as:

- Energy monitoring and management: Sensing solutions in smart grids for reliable and efficient power distribution, monitoring and management of in-building and outdoor facilities;
- Environment and natural resource management: Sensing environmental parameters for advanced monitoring of air and water quality, and disease spreads;
- Safety: Sensing technologies for emergency response, crowd-management, outdoor infrastructure lighting for better illumination and safety;
- Transportation: Sensors for traffic flows and optimized traffic management, sensing technologies for connected vehicles for sustainable transportation solutions.

**Deadlines (tentative)**

Manuscript submission: March 1, 2014
Manuscript decision upon peer-review: May 15, 2014
Final decision upon peer-review of revised manuscript: August 1, 2014
Final manuscript due: September 1, 2014
Tentative publication: December, 2014

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**Note to Prospective Authors:** The submissions should contain a clear discussion on how the work presented would contribute towards smart urban infrastructures (absence of which would lead to rejection). All papers shall undergo the standard IEEE Sensors Journal peer review process. Manuscripts must be submitted on-line, via the portal http://sensors-ieee.manuscriptcentral.com. When submitting, please indicate in the “Manuscript Type” roll down menu that the paper is intended for the “Sensing Technologies for Intelligent Urban Infrastructures” Special Issue, and also by email to Ms. Alison Larkin, a.larkin@ieee.org. Authors should suggest names of qualified reviewers for their manuscript 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-sensors.org/journals.