


URBAN CLIMATE

SPECIAL ISSUE on
New Sensing Technologies and Methods for Air-Pollution Monitoring

Call for Papers

Environmental issues impact negatively to modern society due to increased population in cities and urban megapolis, diminishing natural resources, and climate changes. Air pollution has many severe effects on human health and the environment. Each year, 500 thousands Europeans die prematurely from air pollution (WHO Europe, July 2013).

The advancements in the new sensing technologies for air quality monitoring by networked, low-cost, low-power and reliable sensors are addressing the Data Quality Objectives (DQO) for indicative and fixed measurements of air quality, as defined by European Directive 2008/50/EC on Ambient Air Quality and Cleaner Air for Europe.

This Special Issue of Urban Climate will be devoted to New Sensing Technologies and Methods for Air-Pollution Monitoring. This issue openly calls for perspective and original contributions in the field of environmental sensor technology, methods, air-pollution modeling, environmental measurements, human air-pollution exposure, air-quality case-studies, assessment, metrology, applications, regulations. The issue accepts extended contributions, presented at the *International Workshop of the COST Action TD1105 EuNetAir* at European Environment Agency (EEA) on 3-4 October 2013, to cover the full range of environmental sensing technologies and methods from the theory, basic properties, modelling, design, fabrication, processing, integration, characterization, assessment, to the applications for air quality urban monitoring.

We invite the submission of original manuscripts related to the fundamental science and applied aspects of the new sensing technologies for air pollution monitoring, measurements, methods, modeling, metrology and applications in the smart cities.

Topics of interest include, but not limited to:

- Gas Sensors and Urban Sensor Technologies
- Environmental Sensors
- Low-Cost Air Quality Sensors
- PM detectors and New Metrics for Urban Monitoring
- Personal Gas Sensors and Dosimeters
- Portable Air Quality Sensor-Systems
- Indoor Air Quality
- Urban Air Quality
- Environmental Measurements in Smart Cities
- Air Quality Control Experimental Campaigns
- Air Quality Integrated Urban Monitoring
- Air-Pollution Modelling
- Human Air-Pollution Exposure
- Environmental Assessment
- Air Quality Data and Methods
- Climate Change and Urban Air Pollution
- Health Risk Assessment
- Environmental Management
- Urban Applications of Air-Quality Sensor-Systems
- Metrology of Air Quality Sensors
- Standards and Protocols for Air Quality in Cities
- Legislation and Regulations on Air Quality

Authors should follow the Urban Climate manuscript format described at the Elsevier journal site http://www.elsevier.com/journals/urban-climate/2212-0955/guide-for-authors.

Prospective authors should submit an electronic copy of their complete manuscript through the online submission by Elsevier Editorial System (EES) at http://ees.elsevier.com/uclim/ according to the following tentative timetable:

EES Opening for Submissions	**September 20, 2013**
Submission Deadline	**November 30, 2013**
Acceptance Deadline	**April 30, 2014**
Publication Date	**June 2014**

Guest Editors

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