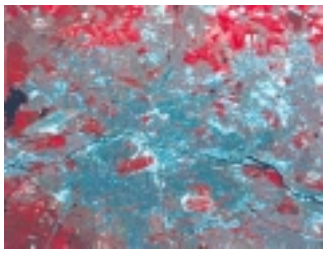
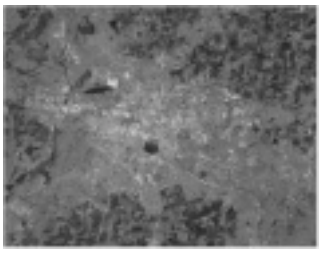
Call for Papers

2nd Joint Workshop on Remote Sensing and Data Fusion over Urban Areas (URBAN 2003)

Berlin, May 22-23, 2003

http://tlc.unipv.it/urban_2003/

Workshop Chair: Olaf Hellwich – Technical University Berlin, Germany
Co-Chair: Lucien Wald - Ecole des Mines de Paris, France

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Co-Chair: Pierfrancesco Lombardo - University of Rome "La Sapienza", Italy

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- Uwe Stilla - FGAN/ FOM, Ettlingen, Germany
- Florence Tupin - ENST, Paris, France
- Graeme Wilkinson, Kingston University, UK

Local Committee:
Chair: Hartmut Lehmann - Technical University Berlin

Invitation

The idea to organize a workshop on urban remote sensing, jointly sponsored by ISPRS and IEEE Geoscience and Remote Sensing Society has been around for while, until it was possible to organize such a meeting in 2001. The workshop was held in Rome, Italy, on November 8-9, 2001, hosted by the School of Engineering at the University of Rome "La Sapienza".
The success of URBAN2001 is not the only reason for URBAN2003. As a matter of fact, this workshop was and remains a unique forum for urban remote sensing with respect to the Information Technology and Geoscience community. Among these people there is still the feeling that we need a way to interact on this topic and gather the different know-how that has been developed internationally. These points are even more urgent especially now that new sensors have been launched (Quickbird and Envisat are just examples) and are already operational.

Therefore, the objectives of URBAN 2003 are:

(a) gathering people coming from industry, academia, local and national/international agencies together to discuss topics related to remote sensing for urban monitoring;
(b) fostering the research and the applications of available data sets over urban areas, with a special consideration for high resolution satellite data and data fusion;
(c) providing new ideas for developing sensors and/or systems able to analyze and monitor urban areas;
(d) improving the knowledge and the know-how by means of the interaction of researchers coming from different communities (town and regional planning, engineering, photogrammetry, geology, hydrology …).

Conference Venue & Organization

The workshop will be held in Berlin, the capital of Germany and will be hosted by Technical University Berlin.
Sessions will be held over a two-day period allowing an extensive interaction among participants. Many oral sessions and two poster sessions will be organized, and, if possible, there will be no parallel sessions.

Workshop topics

Papers are solicited on, but not limited, to the following topics:

1. Data & Sensors
   - 1.1. New satellite/airborne observation systems for urban areas
   - 1.2. Potentials of hyperspectral data for urban applications
   - 1.3. SAR and laser scanner data in urban areas
   - 1.4. Processing techniques taking into account the specifics of the urban areas (registration, correction of shadow effects)

2. Structure Detection
   - 2.1. Land cover in built-up environment
   - 2.2. Spatial representation and modelling of urban domain
   - 2.3. Detection of objects, streets, buildings
   - 2.4. Joint/disjoint 2D/3D characterization by data fusion

3. Techniques
   - 3.1. Mathematics and tools for the visual analysis and interpretation of high resolution images
   - 3.2. GIS & urban image data fusion
   - 3.3. Image visualization & search issues for multisensor urban imagery
   - 3.4. Communication & compression

4. Applications
   - 4.1. Urban risk analysis by means of remote sensing
   - 4.2. Hydrological/geological assessment of urban areas
   - 4.3. Problems specific to the reconstruction of cities after disasters
   - 4.4. Urban change detection by remote sensing at local/regional/national level
   - 4.5. Remote sensing data as input for decision-making / planning activities
   - 4.6. Imaging for architecture and cultural heritage conservation

Abstract Submision Guidelines

Abstracts must contain sufficient detail to enable the organizing committee to judge the scientific merit and relevance of the proposed paper. Abstracts should be written in English, and they must be no less than two and no more than four international A4 size or US letter pages, font comparable to Helvetica, 12 pt, single spaced.

Abstracts should include the followings:

title of the contribution
name(s) of the author(s)
institutional affiliation
complete mailing address
international phone and fax numbers
e-mail addresses
preferred topic (chosen from the topic list above)

Abstracts must be submitted as a document in Rich Text Format (RTF) or PDF format by e-mail to urban_2003@ele.unipv.it.

The corresponding authors will be notified about the receipt of their abstract via email until November 30, 2002. A complete list of the abstracts received and, after the review process, of the accepted abstracts will be posted on the workshop web site (http://tlc.unipv.it/urban_2003/).

Resulting Publication

The list of all abstracts accepted for presentation will be available on the workshop web site on January 10, 2002. The final program of the workshop will be available on March 15, 2003. All papers will be published on a CD-ROM.

Points of Contact

General inquiries: Olaf Hellwich
Photogrammetry and Cartography
Technical University Berlin
Straße des 17. Juni 135, D-10623 Berlin
hellwich@fpk.tu-berlin.de

Abstracts & Papers: Paolo Gamba
Dipartimento di Elettronica
Università di Pavia
Via Ferrata, 1, 27100 Pavia, Italy
p.gamba@ele.unipv.it

Local assistance: Hartmut Lehmann
Photogrammetry and Cartography
Technical University Berlin
Straße des 17. Juni 135, D-10623 Berlin
hartmut@fpk.tu-berlin.de

Workshop E-mail: urban_2003@ele.unipv.it
Web address: http://tlc.unipv.it/urban_2003/

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Important Dates

Abstracts Deadline	**November, 15th, 2002**
Notification of acceptance	**January, 10th, 2002**
Final Papers Due	**February, 10th, 2003**