

<<http://ubimap.net/workshop2006/>>

International Cartographic Association (ICA)

- **Commission on Ubiquitous Mapping** (<http://ubimap.net/>)

- **Commission on Maps and the Internet** (<http://maps.unomaha.edu/ica/>)

The University of Seoul

Center for Spatial Information Science, The University of Tokyo

Call for Participation

Second International Joint Workshop on Ubiquitous, Pervasive and Internet Mapping (UPIMap2006), Seoul, Korea, October 23 - 25, 2006

The ICA Commissions on **Ubiquitous Mapping** and **Maps and the Internet** announce a workshop in Seoul at the end of October 2006. The workshop is sponsored by the Commission on Ubiquitous Mapping, the Commission on Maps and the Internet, the University of Seoul, the Center for Spatial Information Science (CSIS) of the University of Tokyo. The ICA commissions were formed in 1999 and 2003 respectively in response to the rapid growth in the use of electronic networks to make and distribute maps and spatial data, and rapid diffusion of new mobile devices. The purpose of the workshop is to bring together international specialists in the field of Mobile Mapping, Location Based Services and Internet Mapping, and to disseminate information to a broader audience on new developments and major areas of research.

UPIMap2004 in Tokyo included on site demonstrations of commercial human and car navigation systems and visits to the Tokyo metropolitan traffic control center and the VICS (Vehicles Information Control System) center for car navigation. UPIMap2006 in Korea will present another opportunity to see the latest in mapping technology. Demonstrations in Seoul will highlight new developments in ubiquitous and Internet mapping. A visit will also be included to the digital city simulation center at Seoul University.

Important Dates

June 20, 2006 - Abstracts Due (300-600 words)

July 10, 2006 - Notification of Acceptance

August 31, 2006 - Working Papers due for Paper Sessions

October 23 - 25, 2006 - Workshop in Seoul

General Information

The Workshop will focus on a variety of issues related to the making and utilization of maps and location based information through mobile devices and the Internet. Working papers should address the terms of reference of the commissions.

ICA Commission on Ubiquitous Mapping

This new commission deals with a "well-mapped society" where maps will be available anywhere and anytime. Today, the number of way maps and geo-spatial information are likely to be employed is very large and diverse. As the individual gains the ability to access relevant spatial information on demand, human behavior will be influenced in interesting ways. The commission concentrates more on theoretical than practical issues. Its terms of reference are:

1. To organize regional workshop including site observation to comprehend the contemporary situation of mobile, car-navigation and location based mapping
2. To clarify the similarity and difference in comparing variant systems to establish an evaluation scheme

3. To place the notion of Ubiquitous Mapping in domain of Theoretical Cartography

ICA Commission on Maps and the Internet

The Internet has increased the distribution of maps and re-defined how maps are used. This commission explores the potential of the Internet to improve the quality of maps as a form of communication.

1. Focus attention on disseminating maps and spatial data through distributed electronic networks. Product: Journal articles and web pages.
2. Examine Internet map usage and project future areas of growth.
3. Examine web map user issues to better serve user needs.
4. Promote the exchange of information about effective Internet mapping for an international audience.
5. Improve user access to maps by examining the potential of Internet map metadata.
6. Promote instruction on Internet mapping through collaboration / coordination with other ICA commissions

Session topics and Some Key Words

1. Theoretical positioning of the domain: ubiquitous, pervasive and Internet mapping; mobile mapping, LBS, tele-cartography, GIS
2. National and international environment of new technologies: IT infrastructure, spatial reference, IC tag, wearable computer, small personal object, SVG, GML, G-XML, ISO
3. Cultural and social issues: cross cultural studies, privacy, security, information divide, universal design, education, history,
4. Application systems: human navigation, car navigation, location, routing, spatial interaction, spatial decision, spatial information, spatial communication, guide, agent, survey map, memory of the place, virtual reality, simulation
5. Data collection and management: spatial data acquisition, photos, sensing, GPS, database, retrieval, data mining, networking, hyperlink, Wiki system, coordination, trans-coding, voice,
6. Mapping and cognitive process: model, schema, visualization, interface, symbology, generalization, multi-scale, virtual environment, augmented reality, mixed reality, real scale map, context awareness, spatial cognition, affordance, perception, egocentric, childhood development

In conjunction with the working papers, the workshop will also feature live demonstrations.

Who Should Attend?

Anyone interested in the use of mobile devices and/or the Internet for the making, distribution, organization and use of maps and spatial data:

- members of academia who wish to familiarize themselves with recent research developments and who are keen to develop new perspectives;
- practitioners from mapping organizations as well as software industry representatives who wish to contribute their experience with commercial Internet mapping software and explore new concepts and opportunities for software development;
- students of cartography who wish to have a better understanding of the major areas of research related to the making of maps through the Internet.

The participation of young researchers is particularly encouraged.

About the Location

The meeting will be held at the University of Seoul.

(<http://www.uos.ac.kr/ceng/bunvinf/g010/cbg010.jsp>). The campus is located 20 minutes from Seoul Central Station by subway. Seoul is the capital of Korea and one of the largest economic centers of eastern part of Asia. You can find almost everything in the city from ultra-modern electronic equipment to traditional goods.

Seoul is situated in the northern part of South Korea. Additional trips are possible to visit other sites of interest.

(<http://www.wcities.com/outside.html?u=http%3A%2F%2Fwww.tour2korea.com%2F>)

Cost

A workshop participation fee will be charged by the organizers - \$150 for attendees, \$75 for students. This includes a technical tour. There are many good hotels near the university. The price of a room ranges from \$70 a night for a single to \$100 for a twin room.

Resulting Publication

Working papers will appear on the commission's home page at <http://ubimap.net/workshop2006/>. Participants are encouraged to submit final papers to the official journal of ICA; CaGIS, CARTOGRAPHICA. Depending on the number of submissions, an edited volume of papers may be published in book form.

Call for Abstracts

Participants will be selected from responses to this Call for Participation. If you wish to participate in the workshop, please submit a 300 - 600 word abstract **BY 20 JUNE 2006** to the chair of the program committee: Takashi MORITA (morita@k.hosei.ac.jp). The abstracts should be no longer than 600 words in length and indicate whether you plan to submit a working paper and/or present a live demonstration. Include title, complete address information for all authors, e-mail address and abstract within an e-mail message. Notification of acceptance will be sent by 10 JULY 2006. The selected participants will then also receive more detailed information on the particulars of the workshop and local arrangements (accommodation, etc.).

If you want to organize a special session on a specific theme, your proposal will be also welcome. In this case, please submit a session proposal including title and aim of the session, and information about each speaker, to the program committee **BY 20 JUNE 2006**.

Working Papers

If you wish to participate in a paper session of the workshop, you will be asked to submit the following material **BY 31 AUGUST 2006** to the chair of the Program Committee: Takashi MORITA (morita@k.hosei.ac.jp)

- a PDF document containing your working paper (3000-4000 words), including:
- a BRIEF biographical sketch of the author(s);
- COMPLETE address information for all authors, including fax, e-mail, and homepage, if available

Live Demonstrations

If you would like to present a live demonstration of products, provide information on platform and audiovisual equipment requirements **BY 31 AUGUST 2006**.

Inquiries and Paper Submissions

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Deadlines and Dates

20 JUNE 2006 - DEADLINE FOR SUBMISSION OF ABSTRACTS

10 JULY 2006 - Notification of acceptance; preliminary workshop program; additional workshop information

31 AUGUST 2006 - Revised working papers due; uploaded to Commission website
23-25 OCTOBER 2006 - Second International Joint Workshop on Ubiquitous, Pervasive
and Internet Mapping, Seoul, KOREA

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