

The 12th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2015)

August 10-14, 2015, Beijing, China.

<http://www.cybermatics.org/SWC2015/UIC/UIC2015.htm>

Co-located with: ATC 2015, ScalCom 2015, CBDCom 2015, IoP 2015

Honorary Chairs

Albert Y. Zomaya, Univ. of Sydney, Australia.

Norio Shiratori, Waseda Univ., Japan.

General Chairs

Yuan Chun Shi, Tsinghua Univ., China.

Jamal Deen, McMaster Univ., Canada.

General Co-Chairs

Bin Guo, Northwestern Polytechnical Univ., China.

Raghu K. Ganti, IBM T. J. Watson Research Center, Yorktown Heights, NY, USA.

Executive Chairs

Gang Pan, Zhejiang Univ., China.

Huansheng Ning, Univ. of Science and Technology Beijing, China.

Program Chairs

Xing Xie, Microsoft Research Asia.

Koji Zettsu, National Institute of Information and Communications Technology (NICT), Japan.

Mirco Musolesi, Univ. of Birmingham, UK.

Changai Sun, Univ. of Science and Technology Beijing, China.

Tutorial & Panel Chairs

Guanling Chen, Univ. of Massachusetts Lowell, USA.

Xiaojuan Ma, Noah's Ark Lab, Huawei, China.

Poster & Demo Chairs

Flora Salim, RMIT Univ., Australia.

Chenren Xu, Carnegie Mellon Univ., USA.

Zhiyong Yu, Fuzhou Univ., China.

Publicity Chairs

Chao Chen, Chongqing Univ., China.

Al-Sakib Khan Pathan, Intl. Islamic Univ. Malaysia.

Longfei Shangguan, HKUST, Hongkong, China.

Advisory Committee

TBD

Program Vice Chairs

TBD

Workshop Chairs

Liming Chen, De Montfort Univ., UK.

Qi Han, Colorado School of Mines, USA.

Zhu Wang, Northwestern Polytechnical Univ., China.

Local Chairs

TBD

Financial Committee

TBD

Steering Committee

Jianhua Ma (Chair), Hosei Univ., Japan.

Laurence T. Yang (Chair), St. Francis Xavier Univ., Canada.

Sumi Helal, Univ. of Florida, USA.

Daqing Zhang, Institut Telecom SudParis, France.

Jadwiga Indulska, Univ. of Queensland, Australia.

Theo Ungerer, Univ. of Augsburg, Germany.

Bernady O. Apduhan, Kyushu Sangyo Univ., Japan.

Program Committee

http://www.cybermatics.org/SWC2015/UIC/UIC_program.htm

Ubiquitous sensors, devices, networks and information are paving the way towards a smart world in which computational intelligence is distributed throughout the physical environment to provide reliable and relevant services to people. This ubiquitous intelligence will change the computing landscape because it will enable new breeds of applications and systems to be developed and the realm of computing possibilities will be significantly extended. By enhancing everyday objects with intelligence, many tasks and processes could be simplified, the physical spaces where people interact like the workplaces and homes, could become more efficient, safer and more enjoyable. Ubiquitous computing, or pervasive computing, uses these many "smart things or u-things" to create smart environments, services and applications.

Research on ubiquitous intelligence is an emerging research field covering many disciplines. A series of grand challenges exist to move from the current level of computing services to the smart world of adaptive and intelligent services. Started in 2005, the series of Ubiquitous Intelligence and Computing (UIC) conferences has been held in Taipei, Nagasaki, Three Gorges (China), Hong Kong, Oslo, Brisbane, Xi'an, Banff, Fukuoka, Vietri sul Mare (Italy) and Ayodya Resort (Bali, Indonesia). It offers a forum for researchers to exchange ideas and experiences in developing intelligent/smart objects, environments and systems.

The 12th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2015) will be held during August 10-14, 2015, in Beijing China. It will include a highly selective program of technical papers, accompanied by workshops, demos, panel discussions and keynote speeches. We welcome high quality papers that describe original and unpublished research advancing the state of the art in ubiquitous intelligence and computing.

Topics for submissions include but are not limited to the following :

Track1: Smart Objects and Interactions

- Electronic Labels, Cards, E-Tags and RFID
- Embedded Chips, Sensors, and Actuators
- MEMS, NEMS, Micro and Biometric Devices
- Smart Appliances
- Wearable Devices
- Material, Textile, Cloth, Furniture, etc.
- Embedded Software and Agents
- Interaction to Smart Objects and Devices
- Smart Object OS and Programming

Track 2: Smart Systems and Services

- Sensor, Ad Hoc, and P2P Networks
- Wearable, Personal and Body Area Systems
- Smart Systems Programming Models and Methodologies
- Intelligent Services and Architectures
- Agents Systems and Architectures
- Swarm Intelligence
- Context-aware Systems
- Big Data in Ubiquitous Systems
- Nature-inspired Intelligent Systems
- Knowledge Representation and Reasoning

Track 3: Smart Environments and Applications

- Urban Computing and Smart City
- Smart Home, Office, Laboratory, and Shop
- Intelligent Traffic and Transportation
- Intelligent Energy Consumption
- Intelligent Environmental Protection
- Smart Healthcare
- Smart Education
- Pervasive Games and Entertainment
- Smart Public Safety and Security

Track 4: Personalization and Social Aspects

- Social Computing
- Mobile Crowd Sensing
- Ubiquitous Computing for Computational Social Science
- Location-Based Social Networks
- Human Mobility Modeling and Mining
- Context-aware Computing
- Recommendation Systems for Ubiquitous Computing
- Human-centric Sensing
- Intelligent Socially-aware and Community-aware Systems
- Security, Privacy, Safety and Legal Issues

IMPORTANT DATES

Paper Submission Deadline:	April 10, 2015
Authors Notification:	May 20, 2015
Camera-ready:	June 5, 2015

WORKSHOPS

The UIC 2015 Organizing Committee invites proposals for workshops associated with the conference, addressing research areas related to the conference. Accepted workshop papers will be included in the proceedings published by IEEE CS Press. Click the following links for submission details/deadlines. For workshop proposals, please refer to

http://www.cybermatics.org/SWC2015/UIC/UIC_workshop.htm.

PAPER SUBMISSION

Main conference papers are limited to 8 pages, following the IEEE CS format, and are to be submitted as PDF via the UIC 2015 submission site:

<https://easychair.org/conferences/?conf=uic2015>.

PAPER PUBLICATION

Accepted conference papers will be published by IEEE CPS (IEEE-DL and EI indexed). At least one author of each accepted paper is required to register and present their work at the conference; otherwise the paper will not be included in the proceedings.

Best Paper Awards will be presented to high quality papers. Selected papers, after further extensions and revisions, will be recommended to special issues. More details can be found via <http://www.cybermatics.org/SWC2015/UIC/UIC2015.htm>.