

The 19th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2022)

December 16-18, 2022, Haikou, Hainan, China

Call for Papers

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, more efficient and more enjoyable. Ubiquitous computing is to create such intelligent/smart environments, services and applications.

We welcome high quality papers that describe original and unpublished research advancing the state of the art in ubiquitous intelligence and computing.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 not limited to the following:

Track 1: Intelligent/Smart Object & Interaction

- AutoID technologies such as RFID/iBeacon
- Embedded Chips, Sensors, and Actuators
- MEMS, NEMS, Micro and Biometric Devices
- Printed Electronics and Pasted Circuits
- Wearable Devices & Embodied interaction
- Materials, Textiles, Fabrics, Furniture, etc.
- Embedded Software and Agents
- Interaction to Smart Objects and Devices

Track 2: Smart Environment Application

- Intelligent Traffic and Transportation
- Intelligent Energy Consumption
- Intelligent Environmental Protection
- Smart Healthcare and Active Assisted Living
- Smart Education and Learning
- Pervasive Games and Entertainment
- Smart Public Safety and Security
- Virtual Personal Assistants, Cognitive Experts

Track 3: Intelligent/Smart Systems & Services

- Sensor, Ad Hoc, and P2P Networks
- Wearable, Personal and Body Area Systems
- Smart Systems Programming Models
- Intelligent Services and Architectures
- Cognitive computing in ubiquitous systems
- Human Activity Recognition
- Adaptive, Autonomic & Context-aware Systems
- Autonomous Cars, Assistive Driving
- Big Data in Ubiquitous Systems
- Nature-inspired Intelligent Systems
- Knowledge Representation and Reasoning
- Chatbots, Cyborgs, Embodied Agents

Track 4: Personalization and Social Aspects

- Social Computing and Crowd Computing
- Mobile Crowd Sensing and Sourcing
- Affect/Emotion/Personality Computing
- Location-Based Social Networks
- Human Mobility Modeling and Mining
- Human Centered Computing
- Context-aware Computing
- Recommendation Systems for Ubiquitous Comp
- Human-centric Design & Sensing
- Socially Community-aware Systems
- Security, Privacy, Safety and Ethical Issues

Paper Submission

Main conference papers are limited to 8 pages (regular paper), or 6 pages (short paper), and 2-4 pages for a poster paper following the IEEE proceedings format, and are to be submitted as PDF via the site: Coming soon.

Paper Publication

Accepted conference papers will be published by IEEE (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. Selected papers, after further extensions and revisions, will be recommended to special issues. More details at the conference website: Coming soon.

Co-located with Four Other Conferences

- o The 19th IEEE Int'l Conf. on Advanced and Trusted Computing (ATC 2022)
- o The 23rd IEEE Int'l Conf. on Scalable Computing & Commun. (ScalCom 2022)
- o The 5th IEEE Int'l Conf. on Internet of People (IoP 2022)
- o The 6th IEEE Int'l Conf. on Smart City Innovations (SCI 2022)

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WORKSHOP PROPOSAL
May 01, 2022

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June 30, 2022

AUTHORS NOTIFICATION
August 31, 2022

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October 15, 2022