

Ubiquitous Intelligence and Computing for Enabling a Smarter World

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, homes or the city itself, 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.

This special issue aims to disseminate the latest research results on 1) the underpinning technologies of Smart World in the areas of Smart Objects and Interactions, Smart Systems and Services and Personalisation and Social Aspects which enable and support user-centric, context-aware, reactive, adaptive and personalised services for meeting users' everyday needs and demands; 2) the real deployments and experimentation of Smart World applications which explore and showcase the potential of combining *Smart Objects* (e.g. RFID, NFC, iBeacons), *Smart Systems* (e.g. Big Data, Context-aware systems) and *Personalisation and Social Aspects* (e.g. persuasive interfaces, social computing or behaviour change modelling) towards Smart Environments and Applications (e.g. Smart Healthcare, Ambient-assisted Working Environments or Urban Computing and Smart Cities).

This special issue is particularly intended to produce evidence and the best RTD practice to support the following equation: Smarter World = Smart Objects + Smart Systems + Personalisation and Social Aspects. We are seeking high quality papers reporting original research results in any of the following topics (but are not limited to):

- Smart Appliances and Wearable Devices
- Human/Environment Natural and Persuasive Interaction
- Software architectures to enable Ubiquitous Intelligence and Computing
- Smart Systems Programming Models and Methodologies
- Big Data in Ubiquitous Systems
- Knowledge Representation and Reasoning
- Mobile Crowd Sensing
- Recommendation Systems for Ubiquitous Computing
- Human-centred Context-aware Computing
- Intelligent Socially-aware and Community-aware Systems
- Tangible and Persuasive Physical and Virtual Interfaces
- Security, Privacy, Safety and Legal Issues
- Urban Computing and Smart City
- Intelligent Traffic and Transportation
- Intelligent Energy Consumption
- Smart Healthcare
- Smart Education

- Smart Public Safety and Security

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