

The 12th International Conference on Green, Pervasive and Cloud Computing (GPC-2017)

May 11-14, 2017, Cetara, Amalfi Coast, Italy

<http://gpc2017.di.unisa.it/>



Call For Papers

Green computing in the context of cloud and pervasive computing is a newly-emerging research field in computer science and engineering. Pervasive computing and cloud computing are two promising paradigms in human's daily life. With the exponential growth in the deployments of techniques in pervasive computing and cloud computing, both of them have to face the critical issues on energy consumption, for example, controlling the energy consumed by the large-scale cloud datacenters, and prolonging the battery life of mobile devices in pervasive computing and Internet of Things. Therefore, new architectures, systems and related techniques, such as mobile cloud computing, software-defined networking and hybrid cloud services, are being developed to make the computing in cloud datacenters and in pervasive wireless devices more productive and energy efficient, for shaping a "Green" world in the future.

GPC 2016 is the next event in a series of highly successful events focusing on pervasive and environmentally sustainable computing. In the last nine years, the GPC conference has been successfully held and organized all over the world: Taichung, Taiwan (2006), Paris, France (2007), Kunming, China (2008), Geneva, Switzerland (2009), Hualien, Taiwan (2010), Oulu, Finland (2011), Hong Kong (2012), Seoul, Korea (2013), Wuhan, China (2014), Plantation Island, Fiji (2015) and Xi'an, China (2016). It aims to establish a high-standard world forum for researchers and developers to share their excellent ideas and experiences in the areas of green computing and communications in the broad context of pervasive computing and cloud computing. GPC 2016 welcomes the original and innovative paper submissions from the academia, industry and government, describing theoretical advances, system design, implementation and experimentation on the following topics, but not limited to:

- Energy-efficient computing, communication and virtualization architectures and protocols
- Monitoring, sensing, control and management of energy-aware systems
- Integration, scheduling and management of renewable energy sources
- Cloud, cluster and grid computing
- Mobile, peer-to-peer and pervasive computing
- Service-oriented computing
- Ubiquitous communications and networks
- Social network and services
- Sensor, ad hoc networks, mobile agents and networking
- Multimedia and machine to machine communications
- Instrumentation and measurement studies on energy-efficient systems
- Economy and business models in cloud computing and pervasive computing
- Innovative technologies for robustness and reliability of energy-aware systems
- Service Level Agreements (SLAs) guarantee for customers in cloud computing
- Multi-core systems, parallel and distributed systems
- Incentives and innovative pricing for the management of cloud resources
- Internet of things, and cyber physical systems
- Trade-offs between performance, energy and other resources in cloud datacenters and pervasive computing
- Energy-aware mobile cloud systems and large-scale applications
- Semantic web, semantic grid, metadata and ontology related to pervasive and distributed computing
- Programming models, tools and environments for distributed and pervasive computing
- Modeling and control of variability in demand and supply of green energy sources
- Data analytics for energy-efficient systems
- Security and privacy in pervasive and cloud computing
- Grid and pervasive applications, including e-Science and e-Business applications
- Light weight cryptography
- Efficient cloud to client secure communication
- Efficient secure mobile apps

Submission of a paper should be regarded as a commitment that, should the paper be accepted, at least one of the authors will register and attend the conference to present the work.

Publication

The conference proceedings will be published by Springer-Verlag as part of the Lecture Notes in Computer Science (LNCS) Series. A selection of the best papers will be asked to be extended in SCIE-indexed journals Special Issues. The information about the Special Issues will be advertised later on the conference website.

Submission Guidelines

Submitted papers must not substantially overlap with papers that have been published or that are simultaneously submitted to a journal or a conference with proceedings. Submissions should be at most 15 pages (*.pdf) including the bibliography and appendices with LNCS template. Submissions must be made to the submission website at:

<https://easychair.org/conferences/?conf=gpc2017>

Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation.

Important Dates

Paper submission due: January 15, 2017
Authors notification: February 15, 2017
Camera ready due: February 22, 2017
Registration by: February 22, 2017
Conference dates: May 11-14, 2017

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