

The 16th International Conference on Green, Pervasive, and Cloud Computing (GPC 2021)

Haikou, China
December 17-19, 2021

Green, Pervasive, and Cloud Computing

Green computing, in the context of pervasive and cloud computing, is an emerging research field in computer science and engineering. Pervasive computing and cloud computing are two promising paradigms that have been seeing exponential growth in the deployments and which, poised to take major roles in human's daily life. But in order to realize this potential, both will have to face the critical challenges related to energy consumption, for example, controlling the energy spent by the large-scale cloud data centers and prolonging the battery life of mobile devices in pervasive computing and Internet of Things (IoT). New concepts and technologies such as mobile cloud computing (MCC), software-defined networking (SDN), Edge/Fog and hybrid cloud services can be leveraged to make cloud data centers and pervasive wireless devices more energy efficient. They aid us shape a "green" world in the future.

The 16th International Conference on Green, Pervasive, and Cloud Computing (GPC 2021) is the next event in a series of highly successful events focusing on pervasive and environmentally sustainable computing. The main conference of GPC 2021 will be held on 17th-19th December 2021 at Haikou, China, and will provide a high-profile, leading-edge forum for scientists, engineers and researchers to discuss and exchange novel ideas, results, experiences and work-in-process around the Green, Pervasive, and Cloud Computing.

GPC-2021 Tracks and Topics

Track 1: Wireless and Ubiquitous Networking

- Sensor, Ad Hoc, Mobile Networks
- Software-Defined Networking (SDN)
- Wearable, Personal and Body Area Networking
- Internet of Things
- Energy Efficient Communications
- Multimedia Communications
- Machine to Machine Communications

Track 2: Intelligent Sensing and Computing

- Energy-Efficient Sensing
- Mobile Cloud Computing
- Smartphone Sensing
- Mobile Edge Computing
- Mobile Crowd Sensing and Computing
- Deep Learning in Resource-Constraint Systems

Track 3: Cyber-Physical-Social Systems

- Energy-Aware Mobile Cloud Systems
- Green Cyber-Physical Systems
- Human-Machine Intelligence
- Human-in-the-Loop Computing
- Human-Centered Computing
- Security and Privacy Issues
- Context-Aware Systems

Track 4: Pervasive and Green Applications

- Green Urban Computing
- Socially-Aware Computing
- Smart Factory and Intelligent Industry
- Smart Building, Smart Home
- Social Network and Services
- Energy-Efficient Mobile Applications

Special Issues

- **IEEE Transactions on Intelligent Transportation Systems (IF: 6.492)**
[SI: Graph-based Machine Learning for Intelligent Transportation Systems](#)
- **IEEE Transactions on Intelligent Transportation Systems (IF: 6.492)**
[SI: Data Science for Cooperative Intelligent Transportation Systems](#)
- **IEEE/ACM Transactions on Computational Biology and Bioinformatics (IF: 3.710)**
[SI: Deep Learning-Empowered Big Data Analytics in Biomedical Applications and Digital Healthcare](#)
- **IEEE Transactions on Network Science and Engineering (IF: 3.894)**
[SI: The Nexus Between Edge Computing and AI for 6G Networks](#)
- **Building and Environment (IF: 6.456)**
[SI: AI and IoT Applications of Smart Buildings and Smart Environment Design, Construction and Maintenance](#)
- **IET Communications (IF: 1.542)**
[SI: Intelligent Metasurfaces for Smart Connectivity](#)
- **Journal of Systems Architecture (IF: 3.777)**
[SI: Cloud-Edge-End Architecture for Internet of Things Applications](#)
- **Security and Communication Networks (IF: 1.791)**
[SI: Protocols, Technologies, and Infrastructures for Secure Mobile Video Communications](#)

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Important Dates

- Workshop Proposal Due:** Aug. 1, 2021
Paper Submission Deadline: Sep. 30, 2021
Authors Notification: Oct. 15, 2021
Final Manuscript Due: Nov. 15, 2021
Conference Date: Dec. 17-19, 2021

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Submission and Publication

Submissions should be in English and at most 15 pages (PDF) including the bibliography and appendices with LNCS template ([Conference Proceedings guidelines | Springer](#)), and submitted via the site: <https://edas.info/N28865>. Accepted papers will be published by Springer (EI indexed). Selected high quality papers will be recommended to special issues of SCI and EI journals. More details can be found via the conference website: <http://www.ieee-cybermatrics.org/2021/gpc/>

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