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SPECIAL ISSUE ON: Security and Energy Management for Cyber-Physical Cloud Systems

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Cyber-physical systems provide mechanisms that are monitored and controlled by computing algorithms. The introduction of cloud computing in cyber-physical systems enables the interlinking of mobile devices with the cloud server in such a manner that complex processing tasks can be executed, despite localised resource constraints. Modern cyber-physical cloud systems are becoming complex and require novel solutions to handle these complexities.

Security in cyber-physical cloud systems is different from conventional information security. Different security concerns include the collection or aggregation of data, transmission of data over the network and storage of data over the cloud. Analysis of cyber-attack vectors and provision of appropriate mitigation techniques are important research areas. Adopting best practices and maintaining a balance between ease of use and security are crucial for the effective performance of these systems.

Energy management is another key aspect of cyber-physical cloud systems and it has a direct impact on the environment. These systems are responsible for developing futuristic smart data centres and energy systems. Different innovative computing methodologies, including energy efficient and green design, are becoming critical for enabling sustainable development of cyber-physical cloud systems.

For this Special Issue, we invite original contributions, from researchers and practitioners in academia and industry, which address theoretical and application issues in security and energy management for cyber-physical cloud systems.

Topics of interest include, but are not limited to:

- Security of cyber-physical cloud systems
- Cloud computing and services for cyber-physical systems
- Energy management for cyber-physical cloud systems
- Real-time data analytics and data stream management for cyber-physical systems
- Context-aware event processing for cyber-physical systems
- Security challenges in cyber-physical cloud systems
- Data virtualisation and data-as-a-service in cyber-physical systems
- Cyber-physical cloud systems for smart cities and smart energy grids
- Internet of Things and real-time cloud services
- Data driven framework for cyber-physical systems
- Situational awareness in cyber-physical systems

Submit your paper to manuscript submission and peer review site via the following link:
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