Call for Papers: Special Issue of Concurrency: Practice and Experience
Distributed Large Scale Applications and Environments

The recent advances in networking have determined an increasing use of information technology to support distributed networked cooperative applications. Several novel applications have emerged in this area: social networks, distributed cryptocurrencies, collaborative work and many other ones. In particular, an interesting technology recently adopted to handle cryptocurrencies (such as bitcoin) is the block-chain technology, that has now taken the more general role to handle several distributed applications. Furthermore, peer to peer, Internet of Things, Smart-cities, distributed sensing are examples of modern ICT paradigms that aim to describe globally cooperative infrastructures built upon objects’ intelligence and self-configuring capabilities. This special issue aims to provide a venue for researchers to present and discuss important aspects of large scale networked collaborative applications and of the platforms supporting them. The definition of these applications requires to afford several challenges, like the design of user interfaces, coordination protocols, and proper middle-ware and architectures. The special issue’s aim is to investigate open challenges for such applications, related to both the applications design and to the definition of proper supports. Some important challenges are, for instance, adaptation of the classical block-chain technology to support collaborative applications, protocols design, distributed consensus algorithms, privacy and security issues.

Topics of interest include but are not limited to:

- Distributed cryptocurrencies
- Block-chain applications: IoT, e-health, supply chain
- Distributed online social networks
- Internet of Things (IoT) applications
- Distributed sensing
- Distributed gaming
- Platforms for large scale distributed applications: peer to peer, cloud, hybrid
- Modelling distributed applications as complex networks
- Security and Privacy in large scale distributed applications
This special issue is open to all and, in particular, to extended version of the papers accepted and presented at the 6th Workshop on Large Scale Distributed Virtual Environments on Clouds and P2P held in conjunction with EUROPAR 2018, Torino, August 2018. Please, note that:

- There is a 20 page max length limit (inclusive of figures and tables).
- The submitted papers must have at least 50% different material beyond the conference original papers or any other previously published work.
- Prospective authors should submit an electronic copy of the paper by following the link http://www.cc-pe.net/journalinfo/issues/2019.html#LSDVE2018

**Important dates:**

- Submission deadline: 15 March 2019
- First Review Notification: 30 April 2019
- Revision Due: 30 May 2019

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