

Proposals for SoCTA2018 special sessions

Title of the special session/Workshop:

- Recent Challenges in High Performance Computing and Computational Intelligence

Names of proposers:

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Description of the special session/workshop:

- The High-Performance Computing Issue intends to act as a forum for research groups and engineers to address and share new ideas, achievements, and promising future directions in Cloud Computing, Grid Computing, Fog Computing and Internet of Things (IoT). This computing environment aims to galvanize the urgent needs of both industry and Academia towards fostering "IoT-revolution". These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. The aim of the session is to identify R & D framework and current open challenges in the computing industries. The session offers a common discussion ground for the theoretical and practical aspects of modern optimization techniques on computing like evolutionary Algorithms, Swarm Intelligence based, Rough Set Theory and fuzzy based optimization etc. The session also highlights simulations, performance and measures successful applications of optimization in various areas of computing such as:

- Internet of Things (IoT)
- Cloud Computing
- Fog Computing
- Security Issues
- Big Data Analytics
- MANETs