Call For Papers

CCPE Special Issue on High Performance Big Data and Intelligent Systems

(HPBD&IS 2020)

This special issue is open for all contributions on the theme “High Performance Big Data and Intelligent Systems,” and also invites selected best papers from the 2020 International Conference on High Performance Big Data and Intelligent Systems (HPBD&IS 2020) held in Shenzhen, China on May 22-25, 2020.

Benefited from the development of sensors and data acquisition technology, unimaginable large amounts of data are gained by humans. With the explosive growth of data and increasingly complexity of algorithm models, computing capabilities are constantly improving. High Performance Computing (HPC) has become a powerful engine behind the era of Big Data. HPC aims to improve the speed of computing and solve the problems of large-scale scientific computing and massive data processing. It has become a significant technological choice in different applications, which has resulted in many intelligent systems. High-performance, Big Data and Intelligent Systems (HPBD&IS) supplement and complement each other, and they have already played a valuable role in our world. This special issue aims to bring together academic researchers and industrial practitioners to publish latest research findings in the area of HPBD&IS, focusing on both theoretical and applied techniques.

Topics

The Topics of interest for this special issue include, but are not limited to:

- High Performance Computer Architecture
- High Performance Computer System Software
- High Performance Computing Environments
- High Performance Micro Processor
- High Performance Storage Technology
- Multi-Core and Multi-Threaded Architecture Methods
- Architecture, Software and Algorithm of Parallel and Distributed System
- High Performance Ubiquitous Computing
- High Performance Adaptive and Evolutionary Computing
- High Performance Blockchain Technology
- High Performance Application
- Parallel Processing of Big Data
- Big Data Model, Processing Algorithm and Programming Technology
- Representation of Multimedia Big Data
- Big Data Analytics and Metrics
- Big Data Durability and Storage
- Big Data Quality and Source Control
- Big Data Protection Integrity and Privacy
- Big Data Storage and Computing Fusion Technology
- Big Data Search and Mining
- Big Data Visual Analysis
- Big Data Business Model Innovation
• Big Data Security Application
• Neural Network and Learning Systems
• Computer Vision
• Machine Art
• Robotic Science and Control Engineering
• Smart Sensor and Sensor Fusion
• Intelligent Storage Device and System
• Real Time Surveillance
• Blockchain System
• Adaptive Surveillance System
• Virtual System
• Complex Systems and Networks
• Intelligent Manufacturing

Guest Editors
• Xian-He Sun, Illinois Institute of Technology, USA (Lead Guest Editor).
• Cheng-Zhong Xu, University of Macau, China.
• Weijun Li, Institute of Semiconductors Chinese Academy of Sciences, Shenzhen DAPU Microelectronics Co., Ltd., China.

Author Instructions
Submissions must follow these guidelines:
• Submit at Manuscript central as HPBD&IS 2020 special issue.
• Submissions should be prepared for publication according to the journal submission guidelines.
• The submitted papers must have at least 50% difference from any other papers.
• There is a limit of 15 papers plus an editorial in the special issue.
• Please use Latex for paper with template
• There is an 18 page max length limit (inclusive of figures and tables)
Detailed instructions could be found on the Concurrency and Computation: Practice and Experience Website: http://www.cc-pe.net/journalinfo/issues/list.html.

Important dates
• Submission deadline: August 31, 2020
• First round of reviews: October 30, 2020
• Second round of reviews [if needed]: December 31, 2020
• Final Decision: January 31, 2021
• Camera-ready due: February 28, 2021