Special Issue

Resilient and Reliable Artificial Intelligence (AI) Systems

Message from the Guest Editors

This Special Issue on Big Data and Cognitive Computing focuses on the issues, principles, and design techniques relevant to the theoretical foundations and practical implications related to robust and reliable AI/ML systems. The Special Issue solicits original research relating to:

- the issues that are specific to the operation of ML systems in real-world environments;
- the principles of reliability, robustness, and resilience in the context of operational use of ML systems, and;
- the design techniques and design patterns for how to ensure the operation of the ML systems that satisfy those principles.

With a special emphasis on the

- methods and metrics for reliable AI/ML operations and model evaluation;
- vulnerabilities to adversarial inputs and data poisoning, and the mitigating approaches;
- techniques for scalable data management, systems resilience and reliability in the context of AI/ML.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2021)

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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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