



Resilient and Reliable Artificial Intelligence (AI) Systems

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Message from the Guest Editors

Dear Colleagues,

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.

