Special Issue

Enhancement Optimization Techniques on Large Language Model

Message from the Guest Editor

By curating state-of-the-art solutions in algorithmic efficiency, reasoning, safety, and data-centric optimization, this special aim to directly complement initial model development and serve as a foundational resource for enabling the next generation of sustainable, robust, and accessible LLMs.Relevant topics for this Special Issue include, but are not limited to, the following areas:

- Model compression and pruning;
- Quantization;
- Hardware-aware optimization;
- Data synthesis and augmentation;
- Efficient inference serving;
- Caching and speculative decoding;
- Resource management for training and inference;
- Edge and on-device deployment;
- Bias mitigation and fairness;
- Interpretability and Explainability (XAI);
- Safety alignment frameworks.

Guest Editor

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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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