



New Advance of Data Driven Optimization and AI—in Honor of Prof.Dr. Kai-Tai Fang

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Deadline for manuscript
submissions:

closed (20 September 2023)

Message from the Guest Editor

AI is actually a field that closely combines mathematics, algorithm theory, and engineering practice, and its algorithms are the embodiment of mathematics, probability theory, statistics, and various mathematical theories. In simple terms, intelligence is the ability to simulate a human being, that is, in a given environment, it can improve its ability to solve problems by interacting with the environment by itself. A machine or software used to simulate this kind of intelligence is called machine learning. From the mathematical dimension, machine learning represents an optimization problem in a function space or parameter space. On the one hand, one of the foundations of AI is mathematics, so if AI wants to achieve stability, it must first solve the basic problems of mathematics; on the other hand, the development of AI has also produced important research fields for mathematics. This Special Issue focuses on the mathematics and statistics foundation and application of AI.





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Message from the Editor-in-Chief

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