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Dark Sides of Artificial Intelligence: Challenges, Perspective and Future Scenarios of AI Applications

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Message from the Guest Editors

Dear Colleagues,

In recent years, artificial intelligence has been used in various industries. A wide range of applications such as medical, educational, and military applications will use intelligent systems. We will see several learning models that may be used alone or with the cooperation of humans to solve problems. Unfortunately, there are many dark sides to the use of artificial intelligence. For example, challenges such as energy, ethics, security, verifiability, privacy, transparency, accountability, explainability, robustness, and safety are not considered during the design of learning algorithms. Ignoring these issues may easily cause catastrophic problems for humans. It should be noted that these challenges may occur in different forms of artificial intelligence such as artificial narrow intelligence, artificial general intelligence, and artificial superintelligence.

Therefore, considering the dark sides during the design and use of artificial intelligence will be a crucial issue in the near future. Discovering new dark sides and new versions of learning algorithms considering dark sides belongs to the scope of this Special Issue.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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