Special Issue

Deep Learning and Explainable Artificial Intelligence

Message from the Guest Editor

Breakthroughs in 'deep learning' via use of intermediate features in multilayer 'neural networks' and generative adversarial networks using neural networks as generative and discriminative models combined with the massive increase in computing power of GPU chips have resulted in the widespread popularity and use of 'artificial intelligence' in the past decade. The apostrophes in the previous sentence are inserted on purpose to remind the reader that learning, in the biological sense, that improves survival outcomes via biological nervous systems or intelligent decisions improving energy and resource availability are far away from what current software can hope to achieve. **The purpose of this Special Issue is to bridge this gap: to develop explanations and an understanding of functioning AI/ML methods, and to develop AI/ML methods that generate outcomes with predictable properties when fed with data satisfying certain conditions.**

Guest Editor

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