Special Issue

Deep Learning Application on Visual Identity, Analysis, Diagnosis and Decision-Making

Message from the Guest Editors

Autonomous intelligent visual identity, analysis, diagnosis, and decision making in a complex natural environment are a hot research field today. For traditional visual identity, analysis, diagnosis, and decision-making algorithms, technicians with a large amount of knowledge in engineering technology and the professional domain are required to model visual recognition. In addition, in cases where the constraint conditions are described by fuzzy sets, fuzzy programming can seek extreme values of the fuzzy target. However, agents trained through deep learning methods have better generality. Fuzzy theory combines deep learning to obtain a fuzzy deep network model to achieve a better performance, which is also a current development trend.

This Special Issue aims to serve as a forum for the presentation of new and improved techniques of information theory for autonomous intelligent visual identity, analysis, diagnosis, and decision making. In particular, the analysis and interpretation of generalization and superiority of the system with the help of statistical tools based on deep learning applications falls within the scope of this Special Issue.

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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