Advances in the System of Higher-Dimension-Valued Neural Networks

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Message from the Guest Editors

Neural networks have developed and flourished in aspects such as signal processing, image operation, pattern recognition and so on. Today, the lower-dimension-valued neural networks can no longer meet the increasing demands of the real world. Therefore, systems of higher-dimension-valued neural networks, such as complex-valued, quaternion-valued ones or octonion-valued networks, are gaining traction because they can be applied in more areas.

This Special Issue welcomes submissions of original research articles and reviews. Research areas may include (but not limited to) the following:

(1) Dynamic analysis for fractional-order neural networks;

(2) Dynamic analysis and scientific application for memristor-based neural networks;

(3) Stability analysis;

(4) Complex-valued neural networks; Quaternion-valued neural networks; Octonion-valued neural networks;

(5) Synchronization and controllers;

(6) Deep learning theory and applications;

(7) Pattern recognition; Image processing *;*

(8) Fuzzy logic;

(9) Complex systems.

Special Issue

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Message from the Editor-in-Chief

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