Editorial

Hyperchaotic Fractional-Order Systems and Their Applications

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Research about fractional-order hyperchaotic systems gains a lot of interest from both theoretical and applied point of view. Some fractional-order hyperchaotic systems have been investigated, such as the fractional-order hyperchaotic Rossler system and the fractional-order hyperchaotic Chen system. Recent publications in this area include nonlinear circuits, secure communication, laser applications, spread spectrum communication, communication in star coupled network, video encryption communication, color image encryption algorithm, and applications of different types of synchronization.

We are pleased to announce the publication of this special issue focusing on novel topics in hyperchaotic fractional-order systems and their applications. The main objective of this special issue is to provide an opportunity to study the new developments related to novel chaotic systems, synchronization schemes, bifurcations, and control in hyperchaotic fractional-order systems along with their applications. Among the articles that were submitted for review, our editorial team has selected seven articles for publication. These articles cover the topics of adaptive fuzzy synchronization, image encryption algorithm, dynamical analysis of a novel hyperchaotic system, eigenvalue problems, BAM neural networks with distributed delays and impulses, complex synchronization scheme between integer-order and fractional-order chaotic systems with different dimensions, and fractional-order FPGA implementation. We are confident that this special issue advances the understanding and

research of hyperchaotic fractional-order systems and their applications.

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