

# SPECIAL ISSUE ON Dissemination and Research in the Study of Complex Systems and their Applications (EDIESCA 2023)

## CALL FOR PAPERS

One of the most important topics in science and engineering technology is the use of chaos. Fast growths in research on engineering applications and chaotic systems with integer and fractional orders have been reported in recent years. A diversity of innovative chaotic systems for usefulness in engineering applications have been proposed. This Special Issue will include selected extended papers presented at [EDIESCA 2023](#).

We welcome scholars to submit original papers to this SI to highlight ongoing efforts to explain chaos-based engineering applications, such as complex networks, synchronization of complex systems, secure communication systems, artificial intelligence, machine learning, deep learning, control and optimization techniques, security for internet of things, embedded systems, and hardware implementation, among others. The purpose of this SI is to encourage original research articles in the field of chaos theory and its applications. Advances in the applied sciences and engineering that have practical applications with an emphasis on the experimental and theoretical issues are welcome.

**Potential topics include but are not limited to the following:**

Complex networks	Secure communications and encryption
Synchronization of complex systems	Dynamics of lasers
Wireless Optical/Electronic Communications	Bifurcations Analysis
Security for Internet of Things (IoT)	Dynamic systems and fractional calculus
Electronic circuits and hardware implementation	Chaos and non-linearity
Machine/Deep Learning in Complex Systems	Artificial Intelligence
Optimization techniques	Robotics and Unmanned Systems
Multi-stability and coexistence of attractors	

Authors are kindly requested to submit their manuscripts through the Manuscript Tracking System at <https://dergipark.org.tr/en/pub/chaos>

Papers are published upon acceptance following the reviewing processes, regardless of the Special Issue publication date.

### Important deadlines for submission:

Closing date for initial submission: October, 2023,  
Deadline for final decision notification: February, 2024,  
Publication Date: June, 2024.

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