**Εργαστήριο Μη-Γραμμικών Κυκλωμάτων, Συστημάτων & Πολυπλοκότητας**

**Τμήμα Φυσικής ΑΠΘ**

# Σεμινάριο

**Τρίτη 7/6/2025**

**Αίθουσα Συνεδριάσεων Τμ. Φυσικής ΑΠΘ, 4ος όροφος κτιρίου ΣΘΕ**

**Ομιλητής: Chunbiao Li**

Professor Nanjing University of Information Science and Technology, China

# Chaos Regulation

**Περίληψη:** This talk presents the findings and progress of the long-term research on the regulation of chaotic dynamics. The talk will cover geometric regulation of chaos, including amplitude control and offset boosting, as well as distribution regulation of chaos, such as the proposed theories of attractor doubling, conditional symmetry, and attractor self-reproducing, along with dynamics editing based on embedded offset boosting. In addition, the talk will briefly introduce the implementation of chaos regulation through memristor modeling.

**Chunbiao Li**, Ph.D., is a Professor and Doctoral Supervisor at Nanjing University of Information Science and Technology, China. His research interests include chaos dynamics, memristive circuits, and chaos-based intelligent computation. He has published over 200 papers and co-authored the book “Multistability and

Hidden Attractors in Nonlinear Dynamical Systems". Now he serves on the editorial boards of "International Journal of Bifurcation and Chaos and Chaos, Solitons and Fractals". He has received multiple national and provincial awards, including the National Teaching Achievement Award (Second Prize). Since 2020, he has been recognized on Elsevier's Highly Cited Chinese Scholars list and Stanford University's World's Top 2% Scientists list.