

First Announcement
31st Summer School – Conference

Dynamic Systems and Complexity

School of Science
University of Thessaly
Venue: Department of Computer Science and Biomedical Informatics
Lamia, Greece 07 – 15 July 2025

The School of Science of the University of Thessaly and the Complex Systems and Applications Network (COSA-Net) announce the organization of the **31st Summer School - Conference on “Dynamic Systems and Complexity”** which will take place in the city of Lamia, Central Greece, from 07 - 15 July 2025.

Overview

The Summer School is mainly addressed to undergraduate or graduate students as well as young researchers, aiming to offer them, in a well-organized framework knowledge in methods of analysis of dynamic systems and complexity and familiarity with the study of complex systems in biomedicine, socio-economic systems, geophysics, mechanics and other sciences. The scope of the Conference is to gather world-leading experts, as well as young scientists, to present current developments and discuss future perspectives on Nonlinear Dynamics and Complicated Systems.

The Summer School – Conference’s themes cover a variety of topics including theoretical aspects, numerical techniques, and applications to many diverse scientific and technological disciplines like mathematics, physics, biology, chemistry, social sciences, economics and engineering. It acts as a catalyst for research in nonlinear dynamics and its applications, providing a venue for established scholars to interact - not only with each other, but also with the junior scholars that play an essential role now and, in the years, to come. This year, the 31st Summer School – Conference is organised by the University of Thessaly and is dedicated to **Kyriakos Hizanidis**, Professor Emeritus of the NTUA, for his overall research and teaching contribution to Nonlinear Science and Engineering.

Contributed talks and posters are invited from all areas of dynamics and complexity science, including amongst others:

- Nonlinear Dynamics and Chaos
- Geometry of Fractals and Chaotic Time Series Analysis
- Complexity and Computational Systems
- Complex Networks and Graph Theory
- Applied Mathematics in Biology
- Dynamic Systems in Quantum Mechanics
- Thermodynamics and Information Theory
- Artificial Intelligence and Complexity
- Complexity in Economic and Social Systems
- Systemic Approach to Natural and Artificial Ecosystems

Programme

The programme structure is as follows. Firstly, there will be invited talks, each with a duration of 70 minutes (including discussion), which introduce current status of the main topics. Then, there

will be several oral presentations 20-30 minutes each (including discussion).

Participants will have the opportunity to present their research work in the form of a poster. We strongly encourage younger graduate students, PhD students, and postdoctoral researchers to participate.

Abstract Submission

Deadline for abstract submission: **May 25, 2025**

Notification upon acceptance, whether your contribution can be considered as a contributed talk or poster (except for main and invited speakers): **June 1, 2025**

Notes for the participants:

- 1) In order to submit an abstract you should have already register as a participant.
- 2) Each participant can present many posters but at most only one oral contribution.
- 3) The template for the preparation of the abstracts in LaTeX can be found at <https://complexity2025.dib.uth.gr/>.

Registration fees for Students (Undergraduate, Graduate, PhD), Postdoctoral and Senior Researchers

Deadline (by **June 15 2025**):

The registration fee of €80 covers access to the scientific sessions, the welcome reception, the book of abstracts, the official conference dinner, as well as breaks for tea or refreshments, meals and accommodation throughout the conference. The registration fee of €50 covers all of the above except accommodation.

Important dates

Abstract submission: 25.05.2025

Decisions sent to authors: 01.06.2025

Conference registration deadline: 15.06.2025

Summer School – Conference is opened: 07.07.2025

Local Organising Committee

- V. Drakopoulos (UTH)
- T. Karakasidis (UTH)
- D. Matthes (UTH)
- V. Plagianakos (UTH)
- D. Vavougiou (UTH)
- L. Zachilas (UTH)

Organising Committee

- A. Bountis (UPatras)
- V. Constantoudis (NCSR “Demokritos”)
- V. Drakopoulos (UTH)
- T. Karakasidis (UTH)
- Y. Kominis (NTUA)
- D. Kugiumtzis (AUTH)
- G. Papaioannou (CRANS, UPatras)
- G. Voyatzis (AUTH)

Keynote Speakers

- Prof. Jose Tito Mendonca (University of Lisbon)

- **Dr. Abhay Ram** (Plasma Science and Fusion Center, MIT)
- **Kyriakos Hizanidis**, Professor Emeritus, School of Electrical and Computer Engineering, National Technical University of Athens. E-mail: kyriakos@central.ntua.gr

Scientific Program Committee and Plenary Speakers

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