



VIT
CHENNAI



Program Schedule: ICNCS 2025

DAY 01 (08 OCTOBER 2025)

- 08:30–09:30 **Registration**
- 09:30–11:00 **Inauguration & Keynote Addresses**
- 11:00–11:15 **Group Photo Session**
- 11:15–11:30 **Tea Break**

Invited Talks

Chair Person: Dhanasekar S, Vellore Institute of Technology Chennai, India

- 11:30–12:20 Kurunathan Ratnavelu, Institute of Computer Science and Digital Innovation, UCSI University, Kuala Lumpur, Malaysia.
New Results in Knowledge Graphs & Temporal Knowledge Graphs
- 12:20–14:00 **Lunch Break**

Invited Talks

Chair Person: Prakash M, Vellore Institute of Technology, Vellore, India

- 14:00–14:40 Jürgen Kurths, Humboldt University, Berlin, Germany
Climate Meets Complex Systems Science: Exploring Extreme Climate Events via a Complex Network Approach
- 14:50–15:30 Wutiphol Sintunavarat, Thammasat University Rangsit Center, Pathum, Thailand
Bridging Fixed Point Theory and Neural Networks for Advancing Computational Intelligence in Nonlinear Complex Systems with Ecological and Behavioral Applications
- 15:30–15:45 **Tea Break**
- 15:45–18:00 **Contributory Talks**

DAY 02 (09 OCTOBER 2025)

Invited Talks

Chair Person: Mini Ghosh, Vellore Institute of Technology, Chennai, India

- 09:30–10:20 Raju. K. George, IIST, Thiruvananthapuram, India
Controllability of Nonlinear Networked Systems
- 10:30–11:20 Praveen Agarwal, Anand International College of Engineering, Rajasthan, India
Study of the Mathematical Analysis of Infectious Diseases by Fractional Calculus
- 11:20–11:30 **Tea Break**

Invited Talk

Chair Person: Vembarasan V, Shiv Nadar University Chennai, India

- 11:30–12:20 S. Chakraverty, National Institute of Technology, Rourkela, India
Analysing Multidimensional Poverty Through the Lens of Artificial Intelligence
- 12:20–14:00 **Lunch Break**

Invited Talks

Chair Person: Raju. K. George, IIST, Thiruvananthapuram, India

- 14:00–14:40 K. Balachandran, Bharathiar University, Coimbatore
On the Solutions of Fractional Differential Equations
- 14:50–15:30 Fathalla Ali Rihan, UAE University, UAE
Delay Differential Equations in Immunology and Infectious Diseases
- 15:30–15:45 **Tea Break**
- 15:45–17:45 **Contributory Talks**
- 18:00–19:30 **Cultural Programme**
- 19:30–20:30 **Conference Special Dinner**

DAY 03 (10 OCTOBER 2025)

Invited Talks

Chair Person: Sanjeewa Perera, University of Colombo, Sri Lanka

- 09:30–10:20 S. Muralisankar, Madurai Kamaraj University, Madurai, India
Fixed Point Theorems and its Applications
- 10:30–11:20 P. Balasubramaniam, Gandhigram Rural Institute (Deemed to be University), Dindigul, India
Quantum Neural Network-Driven Optimal Control of the Nonlinear Time-Fractional Schrödinger Equation
- 11:20–11:30 **Tea Break**

Invited Talk

Chair Person: P. Balasubramaniam, Gandhigram Rural Institute (Deemed to be University), Dindigul, India

- 11:30–12:20 M. Lakshmanan, Bharathidasan University, Tiruchirappalli, India
Complex Structures in Soliton Systems: Coupled Nonlinear Schrödinger Equations
- 12:20–14:00 **Lunch Break**

Invited Talk

Chair Person: S. Muralisankar, Madurai Kamaraj University, Madurai, India

- 14:00–14:40 Sanjeewa Perera, University of Colombo, Sri Lanka
Topological Data Analytics for Industrial Applications
- 14:50–15:40 **Valedictory**
- 15:40–16:00 **High Tea**