



# Program Schedule: ICNCS 2025

## DAY 01 (08 OCT, 2025)

- 08:30–09:30 **Registration**
- 09:30–11:10 **Inauguration & Keynote Addresses**
- 11:10–11:15 **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 OCT, 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 Talk

*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 OCT, 2025)

### Invited Talk

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

- 09:30–10:20 S. Muralisankar, Madurai Kamaraj University, Madurai, India  
*Fixed Point Theorems and their Applications*
- 10:30–11:20 P. Balasubramaniam, Gandhigram Rural Institute (Deemed to be University), Dindigul, India  
*Solving PDE-constrained optimal control problems using Artificial Neural Networks*
- 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*
- 14:50–15:30 **Valedictory**
- 15:30–16:00 **High Tea**