8th International Conference on Computing Methodologies and Communication
(ICCMC 2025)
23-25, July 2025

ORGANIZED BY

SEC

SURYA ENGINEERING COLLEGE
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ABOUT ICCMC 2025

ICCMC, now in its 8th year, will be held in Tamil Nadu (India), during 23-25, July 2025, as an international conference with a theme on "Impact of Artificial Intelligence in Networking and Digital Connectivity". Being an annual scholarly event hosted by Surya Engineering College (SEC), ICCMC is constantly serving as a platform to discuss the research progress in mobile computing and communication systems research. Artificial Intelligence is constantly at the forefront of Information and Communication Technologies (ICT) Research, and has found its application in many commercial systems such as distributed sensor systems, ambient intelligence and smart cities. ICCMC particularly welcomes the emerging research work on methodologies and techniques that bridge the theoretical and empirical research gap in all the computing and communication domains.

ABOUT-Surya Engineering College(SEC)

Surya Engineering College(SEC), Erode, is a self-financing Engineering College, instituted in the year 2008 under the auspices of Sri Andavar Educational and Charitable Trust. Located and well developed College campus spreads over a sprawling 20 acres of land.

Having well groomed academicians and leader of the corporate sphere for close to four years, Surya boasts a legacy of Excellence & Integrity. 'Ever Greater,' Surya aims at being an Engineering College with a passion for academic excellence, uncompromising human values, sensitive social conscience and an abiding commitment to improve the quality of life in organizations and society. It is these values that make Surya shine apart. The college has developed excellent facilities and resources such as well-equipped laboratories well-stacked library, dedicated computer centre, spacious classrooms and seminar halls.

KEYNOTE SPEAKER

Pr. Pascal LORENZ
University of Haute Alsace,France

Dr. Anumoy Ghosh
Department of Electronics & Communication Engineering,National Institute of Technology, Mizoram, India.

Dr. R. Kanthavel
University of Technology (Govt),
Lae, Papua New Guinea.

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Committee Chairs:
Prof.K.Senthilnathan,Surya
Engineering College, Erode, India.

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TRACK — 1

Experiential Intelligence in User-Centric Networking

- AI-driven user-centric networking
- Personalized content delivery using AI
- Context-aware networking and ambient intelligence
- Human-centric AI interfaces for networking
- AI-driven augmented and virtual reality
- Emotional intelligence in human-AI collaboration
- Adaptive user experience through deep learning

TRACK — 2

Cognitive Networks for Autonomous Connectivity

- Reinforcement learning for self-optimizing networks
- Explainable AI in autonomous decision-making
- Swarm intelligence in network resource allocation
- Federated learning for edge intelligence
- Self-healing and self-configuring network architectures
- Quantum-inspired algorithms for network optimization
- Bio-inspired networking models and Neuro-inspired computing

TRACK — 3

Next-Generation Communication Technologies

- B5G and AI synergy for enhanced connectivity
- AI applications in software-defined networking
- Virtualization and AI in communication networks
- Blockchain and AI for secure communication
- Quantum computing and communication
- AI driven network security analytics
- Cognitive radio networks
- AI-driven network slicing
- Collaborative intelligence in communication systems

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