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ICAN 2025

5th International Conference on Computing Analytics and Networks

Jointly Organised By:
Chitkara University, Himachal Pradesh
and Chitkara University, Punjab

July 18, 2025 | Venue - Chitkara University, Himachal Pradesh | Hybrid Mode

TECHNICAL PROGRAM



<https://www.chitkara.edu.in/cse-can/>

TECHNICAL PROGRAM

Registration and Networking Tea

9:15 AM – 9:45 AM | Venue – Kalam Block

Inaugural, Keynote and Invited Talks

10:00 AM – 12:00 Noon | Venue – Schroff Hall



Zoom QR Code

Welcome Address and Journey of ICAN 2025

Dr. Sagar Juneja – Associate Director, Research, Chitkara University, Punjab
Technical Program Cum Publication Chair, ICAN 2025

Inaugural Address

Insight into the Legacy of ICAN and Vision Going Forward

Dr. Rajnish Sharma – Vice Chancellor, Chitkara University, Himachal Pradesh and General Chair, ICAN 2025

Invited Talk 1

Topic – Computing for the Social Good: Opportunities in AgriTech

Dr. Neeraj Goel - Associate Professor, CSE, Indian Institute of Technology (IIT) Ropar

Invited Talk 2

Topic - Agentic Systems

Dr. Lipika Dey – Professor, Ashoka University, India (Former Chief Scientist, TCS Research | ESP Speaker, ACM India)

Invited Talk 3

Topic - Hardware Security and its Need

Prof. (Dr.) Anirban Sengupta - Professor, CSE, Indian Institute of Technology (IIT) Indore

Vote of Thanks

Dr. Meenu Khurana - Pro VC, School of Engineering and Technology, Chitkara University, Himachal Pradesh
Local Organizing Chair, ICAN 2025

Lunch | 12:00 Noon – 12:45 PM

Paper Presentation

12:45 PM – 2:00 PM

Paper Presentation Track 1 | Theme: Deep Learning for Secure and Intelligent Systems | **Venue:** Florence Hall

Session Chair: Dr. Rishu Chhabra - Professor and Dean, CSE, CUIET, Chitkara University, Punjab, India

Session Co-Chair: Dr. Ashutosh Kumar Dubey - Associate Professor, CSE, Chitkara University, Himachal Pradesh

1. Enhancing Hindi-English Direct Speech-to-Speech Translation with Clustering-Aided Cross-Contrastive Self-Supervised Speech Representation Learning - Mahendra Gupta
2. A Hybrid Extractive and Encoder-Decoder Based Approach for Mitigating Hallucination in Automatic Text Summarization - Neeru Sharma
3. Cluster Head Selection Metric in VANETs under Dynamic Environmental Conditions - Gurtej Kaur
4. Feature-Based Coverless Information Hiding Using Vision Transformer - Sangeeta Gautam
5. An RF-DNN Based Approach for Detecting Cyber Attacks in IoT Network - Anshika Sharma
6. AutoSortBin: Integrating CPS and IoT with Densely Connected Convolutional Networks for Sustainable Waste Management - Mayank Sangwan
7. An Efficient and Robust Procedure of Cyber Attack Detection and Prediction Using Machine Learning Algorithms for Military Data - Dillip Rout
8. Joint Adversarial and Contrastive Graph Attention Framework for Enhanced Rumor Detection - Chintoo Kumar
9. Multi-server Authentication and Key Agreement Protocol with Distributed Storage Utility - Lokesh Pawar

Paper Presentation

2:00 PM – 3:30 PM

Paper Presentation Track 2

Theme: AI in Healthcare

Zoom QR Code:



Session Chairs: Dr. Mukil Alagirisamy - Asia Pacific University of Technology and Innovation, Malaysia

Dr. Subhanshu Goyal - Associate Professor & Head,
Department of Mathematics, Marwadi
University, Rajkot, Gujarat

Session Co-Chair: Dr. Abhishek Thakur – Associate Professor,
CSE, Chitkara University, Himachal Pradesh

Paper Presentation Track 3

Theme: AI Techniques, Optimization, and Applications

Zoom QR Code:



Session Chairs: Dr. S. M. Hasan Mahmud – Associate
Professor, Daffodil International University, Bangladesh

Dr. Neetu Mittal - Professor, Amity Institute of Information
Technology, Amity University, Uttar Pradesh, Noida

Session Co-Chair: Dr. Dileep Kumar – Associate Professor,
CSE, Chitkara University, Himachal Pradesh

List of Papers

1. X-CBNet: An Explainable Effective Deep Learning Framework Based on Spectrograms for Predicting Valvular Disorder using PCG Signals - Subham Kumar Padhy

2. Fusion of Vision Transformer and Convolutional Neural Network for Explainable and Efficient Histopathological Image Classification in Cyber-Physical Healthcare Systems - Mohammad Ishtiaque Rahman

3. AY-Net: Attention Y-Net based Dehazing in Laproscopic Surgery - Banala Revanth

4. Automatic Skull Stripping for CT Images of Traumatic Brain Injuries (TBI) - Minhazur Rahman

5. Enhancing Alzheimer's Disease (AD) Classification using Transformer based Neuroimaging Technique - Kumar Janardan Patra

6. Vi-GeN 1.0: GAN-Augmented Vision Transformer Pipeline for diversified Pneumonia Classification - Archana Dash

7. A Novel Hybrid Approach for Thyroid Disease Detection: Integrating Cuttlefish Algorithm and Simulated Annealing for Optimal Feature Selection - Kapil Shrivastava

List of Papers

1. Hybrid Attention-Based Prototypical Network for Weed Identification in Precision Agriculture - Omprakash L Mandge

2. Sustainable Credit Risk Prediction: Applying Machine Learning for Responsible Lending - Ch Biswaranjan Nanda

3. Advancements in Deep Learning for Glaucoma Detection from Fundus Images: A Comprehensive Analysis - Shajila Beegam M K

4. VGG16 and SqueezeNet-based Ensembled Models Integrated with Hybrid Trio Stacked Classifiers for Early Clinical Decision Making - Shagun Sharma

5. Warthog Optimization Algorithm: A New Nature-Derived Solution for Optimization Challenges - Shuvadipta Das

6. Adaptive and Robust Feedback-Based Quantum Optimization using Reinforcement Learning - Govind Murari Upadhyay

Valedictory

Time: 3:30 PM – 4:00 PM | Venue: Florence Hall

Networking Tea and Closure



University Campus

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