2025 Second International Conference on Cognitive Robotics and Intelligent Systems
ICC – ROBINS 2025

25-26, June 2025 | Coimbatore, India

Organized by KPRIET Centre for Research and Development

KPR Institute of Engineering and Technology
Learn Beyond
Avinashi Road, Arasur, Coimbatore.

IEEE

IEEE MADRAS SECTION

Program Schedule

All time in IST (GMT+5:30)

Day 1: 25-06-2025		
Time	**Agenda**	**Venue**
08:30 AM to 09:00 AM	**Registration**	**Veena Hall Reception**
09:15 AM to 09:45 AM	**Inaugural Function**	**Veena Hall & Online**
09:45 AM to 12:00 PM	**Session A1**	**Veena Hall**
	Session A2	**Pallavi Hall**
	Session A3	**CFRD Boardroom**
	Session A4	**CFRD A-208**
	Session A5	**CFRD A-209**
12:00 PM to 12:30 PM	**Keynote Session 1** **Dr. Pascal Lorenz**	**Veena Hall & Online**
12:45 PM to 01:30 PM	Lunch	Boys Hostel Mess
01:30 PM to 03:30 PM	**Session B1**	**Veena Hall**
	Session B2	**Pallavi Hall**
	Session B3	**CFRD Boardroom**
	Session B4	**CFRD A-208**
	Session B5	**CFRD A-209**
03:30 PM to 04:00 PM	Hi-Tea and Snacks	Veena Hall Reception

Day 2: 26-06-2025		
Time	**Agenda**	**Venue**
09:00 AM to 09:30 AM	**Keynote Session 2** **Dr. Anand Nayyar** **Quantum Communication: Trends and Outlook**	**Online**
09:30 AM to 11:45 AM	**Session C1**	**Veena Hall**
	Session C2	**Pallavi Hall**
	Session C3	**CFRD Boardroom**
	Session C4	**CFRD A-208**
	Session C5	**CFRD A-209**
12:00 PM to 12:30 PM	**Valedictory Function**	**Veena Hall & Online**
Presentation Time: 10 to 12 Mins **No specific format for PPT presentations**		

KPR Institute of Engineering and Technology
Avinashi Road, Arasur, Coimbatore.

Presentation Time: 10 to 12 Mins

Presentation Schedule		25-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
09:45 AM – 09:57 AM	A1	Veena Hall	25R387	Electrical Load Demand Forecasting Using Machine Learning Algorithm Pandiyan P; Gurudeep A R; Gowtham M; Naveen Kumar M; Bala Subramanian S
10:00 AM - 10:12 AM	A1	Veena Hall	25R024	Cutting-Edge Machine Learning Methods for Liver Disease Forecasting Sindhuja S; Lingabarani M G; Kamalakrishnan K S; Vignesh S
10:00 AM - 10:12 AM	A2	Pallavi Hall	25R160	Explainable AI In Action Unveiling Credit Card Fraud with SHAP & LIME Nathiya N; Anusha R. M; Bhavya V; Dharshini K
10:00 AM - 10:12 AM	A3	CFRD Boardroom	25R173	Accurate flight delay prediction using machine learning techniques Kore Srinija; Kundella Tharun; D. Rohan; Rajalingam S; Hariharan Shanmugasundaram; Karuppiah Natarajan
10:00 AM - 10:12 AM	A4	CFRD A-208	25R175	Revolutionizing VLSI: Power and Area Reduction Using Novel FinFET-Based CMOS Techniques R. Vinod Kumar; Christina Abiksha Ananita C; Aruna Devi V. M
10:00 AM - 10:12 AM	A5	CFRD A-209	25R142	Performance Evaluation of MPTCP and RFC 9438 in 5G D2D Networks: A Comparative Study on Network Dynamics and Reliability M. Joseph Auxilius Jude; M. Ponkarthika; R. Vinitha; V. G. Varshini; A. Surya; A. Sivakumar
10:15 AM - 10:27 AM	A1	Veena Hall	25R164	Next-Gen 24/7 Fetal Position and Flow Monitoring System with Esp32-IoT Integration for Enhanced Maternal Care Santhoshini Arul Vallal; Bharathiraja N; Kalyani G; Dhivya Sri S N; Aparna A; Deepa T
10:15 AM - 10:27 AM	A2	Pallavi Hall	25R404	A Contextual Hate Speech Detection using Natural Language Processing Varshini Devi K; Atshaya R; Annet Thomas; Thrisha R; D J Jagannath
10:15 AM - 10:27 AM	A3	CFRD Boardroom	25R083	Enhancing Fraud Detection with Boosting Models and Weighted Ensemble Learning A. Deenu Mol; U. Vimalan; P. Revathi; V. Swetha
10:15 AM - 10:27 AM	A4	CFRD A-208	25R185	A Comparative Study of Advanced Deep Learning Models for Real Estate Price Prediction in Dubai Aneesa Mohamed Ayaz; Saravanapriya Manoharan
10:15 AM - 10:27 AM	A5	CFRD A-209	25R208	A Hybrid Model for Meningitis Diagnostic Accuracy with Ensemble Learning: Combining Logistic Regression and L-BFGS Sathiya Priya S; M. Amanullah; Kujani T
10:30 AM - 10:45 AM				Break

KPR Institute of Engineering and Technology
Learn Beyond
Avinashi Road, Arasur, Coimbatore.

Presentation Time: 10 to 12 Mins

Presentation Schedule		25-06-2025		All time in IST (GMT+5:30)
Time	**Session**	**Venue**	**Paper ID**	**Paper Title & Authors**
10:45 AM - 10:57 AM	A1	Veena Hall	25R134	Ensemble based approach for bitcoin price prediction Gowthami J; Gayathri S; Shanthi N; Suwetha R. N; Vishnu Prasad S; Pradeep S
10:45 AM - 10:57 AM	A2	Pallavi Hall	25R161	Adaptive X-Ray Image Processing: Practical Solution for Diverse Applications Prabhu K; Gowtham P; Sakthivel S; Karthick P S
10:45 AM - 10:57 AM	A3	CFRD Boardroom	25R315	Predicting Alzheimer's Disease and Mild Cognitive Impairment Using MRI-Based Modeling Kothai G; Dharaneesh S S; Murugan B; Sourav S; Nandhagopal S; Sarankumar S
10:45 AM - 10:57 AM	A4	CFRD A-208	25R347	Autonomous Charging System Prototype for Robot NAO Aatheethyaa Dhanasekaran; Vincenzo Bonaiuto; Andrea Zanela
10:45 AM - 10:57 AM	A5	CFRD A-209	25R305	Multi-level Feature Fusion using Hierarchical Graph Network for Video Summarization Kavinder Singh; Harsh Jha; Hiten Malhotra; Harsh Kumar
11:00 AM - 11:12 AM	A1	Veena Hall	25R186	Performance of machine learning models in drone detection using optical features Tinotenda Markandreck Mapara; Srinu Sesham; Frans Shafuda; Dickson Kanungwe Chembe
11:00 AM - 11:12 AM	A2	Pallavi Hall	25R225	Design of a Mobile Manipulator for Automated Rubber Latex Collection Ajay Krishnan V; Santhakumar Mohan
11:00 AM - 11:12 AM	A3	CFRD Boardroom	25R141	MhAFN: A Multi-Head Attention-Based Fusion Network for Personality Prediction from Multimodal Text and Audio Data Shruti Agrawal; Rajiv Iyer
11:00 AM - 11:12 AM	A4	CFRD A-208	25R296	Deep Learning Technique using Hybrid Features for Speech Emotion Detection Hephzibah A. Igwe
11:00 AM - 11:12 AM	A5	CFRD A-209	25R311	Improved Adaptive Instance Normalization for StarGANv2-VC Dharmalingam Anandhakumar ; K. V. Krishna Kishore
11:15 AM - 11:27 AM	A1	Veena Hall	25R268	Design and simulation of integrated system behavior for dynamic load change using ETAP K. Mohanasundaram; Ravikumar V; Praveen W; Gokulchandran R; Ajithkumar G
11:15 AM - 11:27 AM	A2	Pallavi Hall	25R330	A Benchmark Study of 1D CNN, GRU, and TCT on Thyroid Disease Classification Ajithmani M; Veni S
11:15 AM - 11:27 AM	A3	CFRD Boardroom	25R316	Osteoporosis Prediction Using Machine Learning: An XGBoost Approach for Early Detection Pandiya Rajan G; Kothai Ganesan; Sivakarthick B; Vignesh K; Naveen Prasath S

2025 Second International Conference on Cognitive Robotics and Intelligent Systems
ICC – ROBINS 2025

25–26, June 2025 | Coimbatore, India

Organized by KPRIET Centre for Research and Development

KPR Institute of Engineering and Technology
Learn Beyond
Avinashi Road, Arasur, Coimbatore.

Presentation Time: 10 to 12 Mins

Presentation Schedule		25-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
11:15 AM - 11:27 AM	A4	CFRD A-208	25R100	Enhancing Financial Latent Factor Analysis: Application of Instrumented Principal Component Analysis (IPCA) and Procrustes Alignment Aditya Saxena
11:15 AM - 11:27 AM	A5	CFRD A-209	25R095	Comparitive Analysis of Smart Contract Vulnerability Detection: Traditional Regex vs DL CodeBert Model Haseeba Yaseen; Syed Imtiyaz Hassan
11:30 AM - 11:42 AM	A1	Veena Hall	25R362	Optimized Credit Card Fraud Detection Using Conditional GAN Kotteeswari C; Rajeshkumar G; Vishnu Priya T S; T. Suresh Kumar; Kumaresan T; Gayathri Devi K
11:30 AM - 11:42 AM	A2	Pallavi Hall	25R368	Enhancing Solar Power Forecasting Through Integrated GRNN, ENN, and BPN Stacking Ensemble for Improved Accuracy and Adaptability Melvin Babu T; Golden Nancy R; J Jerlin Rajan
11:30 AM - 11:42 AM	A3	CFRD Boardroom	25R101	Predicting Institutional Investment Trends from SEC Form 13F Filings Using Machine Learning Aditya Saxena
11:30 AM - 11:42 AM	A4	CFRD A-208	25R097	Securing Digital Twins in Autonomous Vehicles: Cyber Threats, Mitigation Strategies, and Innovative Security Solutions Leora Kumar; Amit Kumar
11:30 AM - 11:42 AM	A5	CFRD A-209	25R127	ReDaUNet: ResNet with Dual Attention-based U-Net for Random Noise Removal in CT Images Mohanapraveen T; Monish G; Sathyan R; Pradeep S
11:45 AM - 11:57 AM	A1	Veena Hall	25R388	Design and Development of a Sub-6 GHz Tri-Band Microstrip Patch Antenna for 5G Communication N. Sathishkumar; S Harsitaa Shree; B Ilakkiya; G Janani; Gnanaprakash V
11:45 AM - 11:57 AM	A2	Pallavi Hall	25R442	Enhanced Pothole Detection and Prediction Using Deep Learning with ResNet and YOLOv8 Finney Daniel Shadrach; Priyadharshini S; Shanmugaraja T; Surendar K S; Karthick J; Koushiikram G B
11:45 AM - 11:57 AM	A3	CFRD Boardroom	25R176	Evaluating Reinforcement Learning based Models for Test Time Enhancement in RAG Vikas Kamra; Lakshya Gupta; Dhruv Arora; Ashwin Kumar Yadav
11:45 AM - 11:57 AM	A4	CFRD A-208	25R122	Disease Detection in Pitahaya Plant Using ViT Pallavi N; P. Vijayakarthik; Harshitha S
11:45 AM - 11:57 AM	A5	CFRD A-209	25R167	A Deep Reinforcement Learning Technique for Stock Price Prediction and Trading Decision Ajit Mohan Pattanayak; Biswajit Sahoo; Aleena Swetapadma

2025 Second International Conference on Cognitive Robotics and Intelligent Systems
ICC – ROBINS 2025

25–26, June 2025 | Coimbatore, India

Organized by KPRIET Centre for Research and Development

KPR Institute of Engineering and Technology
Learn Beyond
Avinashi Road, Arasur, Coimbatore.

Presentation Time: 10 to 12 Mins

Presentation Schedule		25-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
01:30 PM - 01:42 PM	B1	Veena Hall	25R035	Tuna Swarm Optimization-Based Deep Learning Model for Brain Tumor Detection and Classification in Biomedical Imaging V. Chanemougavel; K. Jayanthi
01:30 PM - 01:42 PM	B2	Pallavi Hall	25R187	Leveraging Generative AI in Electric Vehicles for Enhanced Driver Safety and advanced Communication Systems P. Vinoth Kumar; Nandhanaa K S; Lakshmi Praba S; Bhuvaneshwari K; Kesavan T
01:30 PM - 01:42 PM	B3	CFRD Boardroom	25R226	Deep Learning-Based Detection of Vulnerable Victims on Social Media for Post-Disaster Impact Assessment Gunasekaran S; Abhishta S; Merin E; Nanditha Karthikeyan; Neethu Das H
01:30 PM - 01:42 PM	B4	CFRD A-208	25R170	Ensuring Data Integrity: Blockchain-based Healthcare Applications in the Cloud Rajkumar G; Devarajsamy S; Gayathri Devi T; Mohanambal K; Mallareddy Adudhodla; Shriniwas Maheshwari
01:30 PM - 01:42 PM	B5	CFRD A-209	25R203	Explainable Cardiovascular Defect and Disease Detection With Graph Networks Saranya G; Angad Rehsi; Pallavi Gupta
01:45 PM - 01:57 PM	B1	Veena Hall	25R236	Hybrid EfficientNet - Data-efficient Image Transformer Model for ASL Hand Gesture Recognition Ishan Chaskar; Santhiya P; Stewart Kirubakaran S; Ebenezer V; Manoah Noble
01:45 PM - 01:57 PM	B2	Pallavi Hall	25R109	DeepSAGE-FL: Enhancing Social Influence Detection on Instagram with Deep GraphSAGE and Focal Loss Minnu Elizabeth Ittan; Sudheep M. Elayidom
01:45 PM - 01:57 PM	B3	CFRD Boardroom	25R232	Real-Time Implementation of Road Detection on Unstructured Roads using Ternaus-Net Architecture Rovin V Benny; Santhiya P; Stewart Kirubakaran S
01:45 PM - 01:57 PM	B4	CFRD A-208	25R149	Prediction of Potential Evapotranspiration using Climatic parameters using Machine Learning Techniques and Univariate forecasting Neev Noah Ignatius Baptist; Kumudha Raimond; J. Brema; Srinithisathian S
01:45 PM - 01:57 PM	B5	CFRD A-209	25R234	Deep Learning-Based Image Annotation Methods for Fruit Calorie Measurement and Classification R. Karthick; P. Shalini; D. David Neels Ponkumar
02:00 PM - 02:12 PM	B1	Veena Hall	25R235	Blockchain Technology-Based Improvements to Cybersecurity S. M. Eswara Moorthi; G. Ravishankar; D. David Neels Ponkumar
02:00 PM - 02:12 PM	B2	Pallavi Hall	25R238	Enhancing Acute Lymphoblastic Leukemia Classification and Detection Using Deep Learning Ajay Abhitej K; Kumudha Raimond

KPR Institute of Engineering and Technology
Avinashi Road, Arasur, Coimbatore.

Presentation Time: 10 to 12 Mins

Presentation Schedule		25-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
02:00 PM - 02:12 PM	B3	CFRD Boardroom	25R195	BlockLock Mail - A Decentralized and Tamper-Proof Approach to Email Security with Blockchain Technology Muthu Pandeeswari R; Santhosh P; Sharan Adhitya C D
02:00 PM - 02:12 PM	B4	CFRD A-208	25R248	Enhanced Asphalt Crack Classification Using Deep Learning and Feature Optimization G. Kirankumar; Ravi Kishore Veluri
02:00 PM - 02:12 PM	B5	CFRD A-209	25R192	A Graph Neural Network Framework for Breast Cancer Risk Prediction T. Padma; Vinodkumar Utamaro Kakde; Arun Kumar Kavuru; Tamilselvi Madeswaran; Suad Al Riyami; Sanjay Gupta
02:15 PM - 02:27 PM	B1	Veena Hall	25R223	Deep Learning for Prediction of Crop Yield: A Systematic Literature Review Mohd Waseem Ganie; Mohsin Altaf Wani; Abid Hussain Wani
02:15 PM - 02:27 PM	B2	Pallavi Hall	25R182	Understanding MRI Drift: Impact on Imaging Quality and Advances in AI-Driven Correction for Clinical Reliability Divya S; Hashna Rasheed; Teena Joseph; Parvathy S Kurup; Chinchu M S; Arjun Rajesh Panicker
02:15 PM - 02:27 PM	B3	CFRD Boardroom	25R244	Brain Tumor Segmentation and Classification using Modern Intelligent Image Processing Techniques Ch. Saraswathi; K.S. Chakradhar
02:15 PM - 02:27 PM	B4	CFRD A-208	25R143	Trust Based Federated Learning for Privacy-preserving in Connected Smart Communities S. Difrina; M. P. Ramkumar; G. S. R. Emil Selvan
02:15 PM - 02:27 PM	B5	CFRD A-209	25R196	EduSync: An Integrated Academic Management and Learning Platform Jananee V; Sivanantham D; Sakthilakshmi M
02:30 PM - 02:42 PM	B1	Veena Hall	25R299	Enhancing Cross-Project Software Defect Prediction with Federated Meta-Learning Kareena Yashmin Shaik; Jhansi Lakshmi Potharlanka
02:30 PM - 02:42 PM	B2	Pallavi Hall	25R266	AI-Driven Cold Storage Optimization Using Charcoal-Perlite Insulation for Extended Produce Shelf-Life Kanmani R; Dinesh S; Anish Chaitanya S; Anandaraj P; Anusree V
02:30 PM - 02:42 PM	B3	CFRD Boardroom	25R020	Enhancing Wireless Sensor Network Security with Intrusion Detection Using Recurrent Neural Networks and Optimization Algorithms M. Pradeepa; R. Ponnusamy
02:30 PM - 02:42 PM	B4	CFRD A-208	25R240	Automatic Text Summarization for Hindi Language using Word Embeddings: A Critical Review Showket Ahmad Khan; Mohd Mudasir
02:30 PM - 02:42 PM	B5	CFRD A-209	25R284	Adaptive Toeplitz Matrix-Enhanced Forecasting Model for Cryptocurrency Volatility Prediction Kanchana R; F. Mary Harin Fernandez

Presentation Time: 10 to 12 Mins

Presentation Schedule		25-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
02:45 PM - 02:57 PM	B1	Veena Hall	25R263	A Comparative Study: Hybrid Deep Learning Classification for Facial Spoof Recognition with Cognitive Mechanisms, GAN-Based Augmentation, and Multitasking S. Amuthavalli; C. R. Uma Kumari
02:45 PM - 02:57 PM	B2	Pallavi Hall	25R318	Privacy-Preserving and Scalable Secure Aggregation for Federated Learning in Edge Computing Prajwalasimha S N; Dilip Kumar Jang Bahadur Saini; Nilesh Shelke; Amit Pimpalkar; G. Hemanth Kumar; Vinitha V
02:45 PM - 02:57 PM	B3	CFRD Boardroom	25R319	AI-Powered Intrusion Detection and Privacy Preservation in 6G Networks Prajwalasimha S N; Nilesh Shelke; Amit Pimpalkar; Dilip Kumar Jang Bahadur Saini; G. Hemanth Kumar; Ranjima P
02:45 PM - 02:57 PM	B4	CFRD A-208	25R260	Design and Simulation of a Reconfigurable Wheel Robot for Search and Rescue Operations Shivansh Chaudhary; Prashant Raturi; Santhakumar Mohan
02:45 PM - 02:57 PM	B5	CFRD A-209	25R322	Transformer-Induced Generative Adversarial Network with Adaptive Learning for One-to-One Voice Conversion Thendral Puyalnithi; Prasanna Venkatesh S; Timothy Florian LV
03:00 PM - 03:12 PM	B1	Veena Hall	25R018	Dynamic Signal for Traffic Congestion Using CNN Aashith M; Thrarun V; K. Abinaya
03:00 PM - 03:12 PM	B2	Pallavi Hall	25R257	LLM-Based Quiz Generation for Assessments in Learning Management System Shantanu Shirkar; Darshan Langhi; Shruti Agrawal
03:00 PM - 03:12 PM	B3	CFRD Boardroom	25R272	Dual-Band 4x1 Array Antenna: Elevating Satellite Communication Systems B. Jeyapoornima; J. Joselin Jeya Sheela
03:00 PM - 03:12 PM	B4	CFRD A-208	25R053	Leveraging TGNN-Seq2Seq Hybrid Model for Predictive Dynamic Process Prioritization: A Novel Approach to OS-Level Adaptive Resource Management Venkatesh R; Kaushik C; Shreyas V Jadhav; Jedi Samy; Abhilash Chakkan; Austen Lambert; Jagadish Harve; M N Thippeswamy; Akshatha G C
03:00 PM - 03:12 PM	B5	CFRD A-209	25R154	Virtual Reality Sandbox for Vision Crafting and Choice Experimentation Saranya G; Shenbaga Krithika N; Pari Gupta
03:15 PM – 03:27 PM	B1	Veena Hall	25R329	Enhancing Fall Detection in Assisted Living using deep learning Approach S. Sangeetha; K. Anitha; Chidambararaj Natarajan; Swagata Sarkar; Karthika; Srimathi S
03:15 PM – 03:27 PM	B2	Pallavi Hall	25R274	Forecasting Hypotension During Haemodialysis Via Data Analysis and Machine Learning Algorithms A. Ramathilagam; Shamili; R. Saravanakumar

2025 Second International Conference on Cognitive Robotics and Intelligent Systems
ICC – ROBINS 2025
25–26, June 2025 | Coimbatore, India
Organized by KPRIET Centre for Research and Development

Presentation Time: 10 to 12 Mins

Presentation Schedule		25-06-2025		All time in IST (GMT+5:30)
Time	**Session**	**Venue**	**Paper ID**	**Paper Title & Authors**
03:15 PM – 03:27 PM	B3	CFRD Boardroom	25R425	Enhancing Air Quality Prediction in IoT-Based Smart Environments Using Graph Neural Networks and CNN Models Dilip Mishra; Senthilkumar C; Rajesh A; Sathvik Kurapati; Jaidev Kumar; N Padmashri
03:15 PM – 03:27 PM	B4	CFRD A-208	25R379	LSTM and XGBoost Hybrid Model for Forecasting Agricultural Productivity and Economic Viability in Intercropping Systems Prachi Arihant Chougule; C. L. Monica; Thresa Jeniffer J; Giri Babu K; Srinivasa K; Yukti Varshney
03:15 PM – 03:27 PM	B5	CFRD A-209	25R278	Transfer Learning - Based Approaches for Plant Disease Identification and Pest Classification Vaibhav Ambhore; Pragati Nayabrao Gadkar; Esha Govardhan; Roshani Raut
End of Day 1 Sessions				

Presentation Time: 10 to 12 Mins

Presentation Schedule		26-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
09:30 AM - 09:42 AM	C1	Veena Hall	25R271	Development of a Tri-Band 4x1 Antenna Array for Integrated S and C Band Applications B. Jeyapoornima; J. Joselin Jeya Sheela
09:30 AM - 09:42 AM	C2	Pallavi Hall	25R351	Comparative Analysis of Deep Learning Models for Efficient Detection of Mango Leaf Diseases Protyush P Neog; Navjot Kaur
09:30 AM - 09:42 AM	C3	CFRD Boardroom	25R364	Evaluating Machine Learning Algorithms for Early Detection of Alzheimer's Disease Babalpreet Singh; Mudita Uppal; Deepali Gupta; Shrikant Mapari; Sapna Juneja; Reshma R
09:30 AM - 09:42 AM	C4	CFRD A-208	25R361	Data-Driven Insights into Cardiovascular Disease Mortality: A Global Analysis of Trends and Risks Raunak Raj; Rachit Garg; Veerpal Kaur
09:30 AM - 09:42 AM	C5	CFRD A-209	25R267	IOT-Driven Smart Shopping Cart for Enhanced Safety and Convenience Madaka Urmila; D. Leela Rani; Kodivendla Nallappa; Koratana Janaki; Javabu Sreelakshmi; M. Manohara
09:45 AM - 09:57 AM	C1	Veena Hall	25R007	Optimizing Cybersecurity against Zero-Day Attacks using Dandelion Optimization and Machine Learning Techniques J. Vanitha; P. Anandababu
09:45 AM - 09:57 AM	C2	Pallavi Hall	25R348	Development of Passport Data Extraction System Using Mask RCNN and EasyOCR Katukojwala Ramya; Emi Mary Rose; Kavya G; Hannah Elsa Abraham; Anitha J; D Sugumar
09:45 AM - 09:57 AM	C3	CFRD Boardroom	25R286	Edge Computing Unveiled: A Deep Dive into Latest Technologies, Challenges and Opportunities Thejaswini S; R. Aparna
09:45 AM - 09:57 AM	C4	CFRD A-208	25R378	Hybrid Red Piranha Optimization and Quantum Boosting for Brain Tumor Classification Alphonsa J; V. Sheeja Kumari
09:45 AM - 09:57 AM	C5	CFRD A-209	25R302	Integration of AI Virtual Assistant and Deep Learning for Visually Challenged People Tamilarasi M; Sajith R; Pragaadeshvar V S
10:00 AM - 10:12 AM	C1	Veena Hall	25R367	Empowering Indian Farmers with Multilingual AI: A Voice-Enabled ChatBot using Dhenu2 Biswayan Mehra; J. Anitha
10:00 AM - 10:12 AM	C2	Pallavi Hall	25R342	AI-Powered Multilingual Chatbot for Inclusive Learning: Enhancing Cybersecurity in Knowledge Sharing Leora Kumar; Kalaavathi B
10:00 AM - 10:12 AM	C3	CFRD Boardroom	25R385	Design and Simulation of a Dual-Band Square-Shaped Slot Antenna for X and Ku Band Applications Kankan Deka; Manas Tripathi; Anushka Sharma; Soumil Hallan; Gaurav Kumar Soni; Dinesh Yadav

2025 Second International Conference on Cognitive Robotics and Intelligent Systems
ICC – ROBINS 2025
25–26, June 2025 | Coimbatore, India

KPR Institute of Engineering and Technology
Avinashi Road, Arasur, Coimbatore.

ICC-ROBINS 2025

IEEE

IEEE MADRAS SECTION

Organized by KPRIET Centre for Research and Development

Presentation Time: 10 to 12 Mins

Presentation Schedule		26-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
10:00 AM - 10:12 AM	C4	CFRD A-208	25R382	Efficient Diabetes Detection Using Ensemble Models Optimized by Firefly Algorithm M. Deepalakshmi; P. Deepalakshmi; P. Nagaraj
10:00 AM - 10:12 AM	C5	CFRD A-209	25R190	Enhancing Diagnostic Accuracy: An AI-Powered System For Interrogating Medical Images For Pneumonia Classification Alajangi Chaitanya Sarath; Saravanapriya Manoharan
10:15 AM - 10:27 AM	C1	Veena Hall	25R415	Impact of Multilingual Intelligent Virtual Assistants on Education and E-Learning Pallavi Yevale; Nilesh Uke
10:15 AM - 10:27 AM	C2	Pallavi Hall	25R416	Energy-Efficient Low-Power Three-Operand Approximate Brent-Kung Adder for VLSI-Based Image Processing Madhumitha D; Dhanasekar S; Shivanandham R.S.; Sharmila Parveen M; SriSanjana K; Roshaan J.S.
10:15 AM - 10:27 AM	C3	CFRD Boardroom	25R401	Enhancing Medical Research with Synthetic Data Generation via CTGAN on Cleveland Heart Dataset Haris Seraj Khan; Jeebananda Panda
10:15 AM - 10:27 AM	C4	CFRD A-208	25R386	Cross Domain Transfer Learning Techniques for Residential Energy Forecasting R. Geetha; P. Sibi; A. Yoganathan; P. Anitha; P. Kalyanasundaram; J. K. Kanimozhi
10:15 AM - 10:27 AM	C5	CFRD A-209	25R369	An analysis of training Convolution Neural Networks for image classification using distributed deep learning Anusha Jayasimhan; Pabitha P
10:30 AM - 10:42 AM	C1	Veena Hall	25R391	Deep Learning-Powered Phishing Email Detection for Cybersecurity Enhancement V Bavithra; R Murugeswari; S Nithyanantham; S Aadith Thillai Arasu; J Loyola Jasmine
10:30 AM - 10:42 AM	C2	Pallavi Hall	25R443	Hyb-PcnDTr: A Hybrid Parallel CNN-Assisted Dense Transformer for Automatic Speech-Based Depression Detection Uma Jaishankar; Jagannath H Nirmal
10:30 AM - 10:42 AM	C3	CFRD Boardroom	25R231	Implementation of Neuron Design with Different Activation Functions on FPGA Ramasubramanian V; Heshwar A S N; Srikrishnan G; Saraswathy B; Sasipriya P; Anita Angeline A
10:30 AM - 10:42 AM	C4	CFRD A-208	25R125	An Analysis On High Speed Wireless Communications in Iot Environment V. Porkodi; P. Saranya; A. Manikandan; K. Vimala; A. Sampathkumar; Sivaram Murugan
10:30 AM - 10:42 AM	C5	CFRD A-209	25R384	Optimized EfficientNet-B0 Framework for Speech Pathology Classification Roohum Jegan; Chanchal Sharma; Manjusha Deshmukh

KPR Institute of Engineering and Technology
Avinashi Road, Arasur, Coimbatore.

Learn Beyond

Presentation Time: 10 to 12 Mins

Presentation Schedule		26-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
10:45 AM - 10:57 AM	C1	Veena Hall	25R431	Temporal Fusion and Hybrid ARIMA-LSTM Models for Robust Time Series Forecasting: A Case Study on Ethereum Price Dynamics Ramesh Dadi; Chandramouli Narsingoju; K Sravani; K Sridhar; Vemula Mounika; Shabana
10:45 AM - 10:57 AM	C2	Pallavi Hall	25R427	Synergistic Integration of AI and Cryptographic Consensus Protocols to Enhance Energy Ecosystem Sudha Yadav; Anand R
10:45 AM - 10:57 AM	C3	CFRD Boardroom	25R394	Efficient Bird Species Identification Using Lightweight Convolutional Neural Networks Rajasekaran Thangaraj; Balasubramaniam Vadivel; D. Kavin Kumar; Lakshana S; Devadharshini G; Jeyabharathi P
10:45 AM - 10:57 AM	C4	CFRD A-208	25R407	Lung Cancer Detection Using Watershed Segmentation and ResNet-Based Deep Learning on CT Scan Images Kola Liharika; Bhanu Prasad Rambha; Srisaila Ampalam; Ashok Kumar Munnangi
10:45 AM - 10:57 AM	C5	CFRD A-209	25R435	Predicting Adverse Drug Reactions Using Machine Learning: A Hybrid Model Stacking Approach Tharun A; Bhuvaneshwari P
11:00 AM - 11:12 AM	C1	Veena Hall	25R409	Swin Transformer For Early Detection and Classification Of Lung Cancer In Histopathological Images Kola Liharika; Bhanu Prasad Rambha; Srisaila Ampalam; Ashok Kumar Munnangi
11:00 AM - 11:12 AM	C2	Pallavi Hall	25R353	Deep Learning based Person Detection and Tracking system for Crowd Management Rajasekaran Thangaraj; Siva Prasanth P; D. Kavin Kumar; Suresh A; R. Manikandan; Surya Prakash V
11:00 AM - 11:12 AM	C3	CFRD Boardroom	25R405	A Multi-Protocol IoT-Enabled Touch Control Switch for Energy-Efficient Smart Home Automation Pravin Savaridass M; Haritha J; Jeyabalan K
11:00 AM - 11:12 AM	C4	CFRD A-208	25R444	Design and Implementation of a Low-Cost Robotic-Based Coconut Tree Climbing Device Ramraj B; Deepasaran S D; Elango S; Karan Raj M
11:00 AM - 11:12 AM	C5	CFRD A-209	25R421	Optimized ResNet and EfficientNet Architectures for Accurate and Efficient Lung Cancer Detection in CT Scans Rajesh Tulasi; Vijaya Chandra Jadala
11:15 AM - 11:27 AM	C1	Veena Hall	25R434	Efficient Diabetic Retinopathy Detection Using ResNet50-Based Transfer Learning with Optimized Performance Prasanta Panda; Debaryaan Sahoo; Mukundan A P; Debarjun Sahoo
11:15 AM - 11:27 AM	C2	Pallavi Hall	25R332	Transforming Brain Tumor Classification with Vision Transformer Networks Chandni

KPR Institute of Engineering and Technology
Learn Beyond
Avinashi Road, Arasur, Coimbatore.

Presentation Time: 10 to 12 Mins

Presentation Schedule		26-06-2025		All time in IST (GMT+5:30)

Time	Session	Venue	Paper ID	Paper Title & Authors
11:15 AM - 11:27 AM	C3	CFRD Boardroom	25R453	Hybrid Ensemble Learning for Autism Spectrum Disorder Detection Using Autoencoders and Classifiers Uma P; Pranav S; Sutharson Ma; Vignesh V
11:15 AM - 11:27 AM	C4	CFRD A-208	25R389	Reduction of Mutual Coupling with highly isolated Four Port MIMO Antenna using DGS for 5G Applications Asokan V; Kumaran N; Sasikala S; Meenakshi Aishwarya R; PranavaPriya S.T; Priyavarshini S
11:15 AM - 11:27 AM	C5	CFRD A-209	25R273	A Recurrent Neural Network-Based Multi-Parameter Sub-Band, Sub-Second Analysis For Voice Spoofing and Cloning Detection A. Ramathilagam; Ramanathan; R. Saravanakumar
11:30 AM - 11:42 AM	C1	Veena Hall	25R418	Intelligent Energy Consumption Estimation in IoT-Enabled Smart Homes Using a Hybrid CNN-GRU Model B. Ben Sujitha; Ch. Venkateswara Rao; Thiyagarajan C; Ekaterina Slepcova; RVS Praveen; Vanisri S
11:30 AM - 11:42 AM	C2	Pallavi Hall	25R279	AgriHelp: A Unified AI-Driven Platform for Precision Agriculture and Sustainable Farming Vaibhav Ambhore; Pragati Nayabrao Gadkar; Esha Govardhan; Roshani Raut
11:30 AM - 11:42 AM	C3	CFRD Boardroom	25R269	Social Network-Integrated Machine Learning for Customer Churn Prediction Jaisoorya V.R; A. Pravin; Ramiz R.M; Ramprasath R; K. Ashok Kumar
12:00 PM to 12:30 PM	**Valedictory Function**			