

ICCPCT 2026
TECHNICAL SESSION DETAILS
06-08-2026
Day 1

Technical Session - ICCPCT 2026

Day – 06/08/2026

Time: 2.00 pm-4.00 pm

Venue 1: IQAC Room

Chair:**Ms J. Gold Beulah Patturose**, Assistant Professor, Department of Artificial Intelligence and Data Science (AI&DS) , St. Joseph's Institute of Technology, Chennai

Session Title/Area:**Artificial Intelligence**

Faculty in Charge:**Ast Prof. Preethi B**, Assistant Professor, Baselios Mathews II College of Engineering, Kollam

Rapporter: **Bella Ann Mathew, Irene Sara Anil**

Sl. No	Paper id	Title
1	130	Semantic Representation Learning using Transformer Architectures for Context Aware Detection of Web Application Attack
2	140	Opportunity Scout: A Modular Explainable Agentic AI System for Autonomous Opportunity Discovery
3	141	A Multi-Layered Graph based Real-Time Transaction Streaming and Governance Framework
4	157	K-Means Clustering-Based Random Forest System for Air Quality Management and Pollution Reduction in Smart Cities
5	1078	Machine Learning Model for Shipment Delay Prediction
6	213	Intelligent Fault Detection and Self-Healing in Cloud Infrastructure Using Hybrid Attention-Based Root-Cause & Reinforcement Learning Algorithm
7	306	A Hybrid CNN–GA–XGBoost (CGAXGB) Framework for Accurate Breast Cancer Detection Using Optimized Feature Selection
8	312	A Web-Based Explainable Machine Learning Framework for Early Prediction of Gestational Diabetes Mellitus
9	364	Physics-Informed Dual-Attention BiGRU for Hourly Wind Speed Prediction
10	399	A Hybrid Machine Learning and Natural Language Processing Approach for Career Recommendation Systems
11	473	Optimizing Secure AI Lifecycle Model Management With Innovative Generative AI Strategies
12	643	A Hybrid SVM–RF Based Early Detection of Amyotrophic Lateral Sclerosis using Hybrid Machine Learning
13	648	Cloud-Based AI Customer Support System with Retrieval-Augmented Generation
14	663	A Hybrid Quantum -Inspired Multi-Objective Optimization with Machine Learning (HQI-ML) Framework for Intelligent Network Routing
15	684	MOODFIT: GPU Accelerated Intelligent Outfit Recommendation System
16	771	Toward Efficient Object Detection in Intelligent Transportation Systems: A Comparative Evaluation of YOLO Architectures
17	827	Detection of REM Sleep Behavior Disorder Using LSTM and GNN Model
18	898	RL-NLP APT: Machine Learning-Based Adaptive English Proficiency Testing for Personalization
19	1026	Attention-Enhanced Multi-Task U-Net for Breast Cancer Detection and Automated Risk Assessment
20	1532	Edge-AI Assisted MXene-Based Fiber Optic IoT Biosensor Framework for Intelligent Wearable Healthcare Electronics

Technical Session - ICCPCT 2026

Day – 06/08/2026

Time:2.00 pm-4.00 pm

Venue 2: EEE Seminar Hall

Chair: **Dr S. Gomathi, Professor**, Saveetha School of Engineering , Saveetha University, Chennai

Session Title/Area:**Artificial Intelligence**

Faculty in Charge:**Ast Prof. Jerry Isac**, Assistant Professor, AI Dept Baselios Mathews II College of Engineering, Kollam

Ast Prof. Anjana K P, Assistant Professor,AI Dept, Baselios Mathews II College of Engineering, Kollam

Rapporter:**Shibin Shaji, Akash T**

Sl. No	Paper id	Title
1	924	A Unified Self-Supervised CNN–Transformer Architecture for Joint Image Enhancement and Segmentation Under Label Scarcity
2	940	“A High-Resolution Data Fusion Framework for Waterbody assessment Using Sentinel-2 and Meta-Ensemble Learning”
3	970	Early Alzheimer’s Disease Detection Using a Hybrid Deep Bayesian Graph Transformer (HDBG-T)
4	1024	An AI-Driven Multimodal User Experience Optimization Framework for Device-Mesh Environments
5	1031	Integration of IIoT and Machine Learning to Enhance Predictive Maintenance Models for Industrial Equipment Health Monitoring
6	1043	A Revolutionary Deep Learning System for Clothes Suggestions: Convolutional Neural Networks (CNN) Feature Learning Combined with Generative AI and User Interaction Logs
7	1069	Innovative Artificial Intelligence-Based Environmental Monitoring System: Emissions and Air Quality Predictions Using Data from Multiple Sensors and Deep Learning
8	1073	Apply AI with Edge Computing: Creating Low- Latency Inference Possible for Life-or-Death Applications in Healthcare and Industry
9	1108	Trends and Advances in Learning-Based Emotion Recognition Across Heterogeneous Data Modalities
10	1128	A Hybrid CNN–XGBoost Model with Ant Colony Optimization (CXGA)for Satellite-Based Crop Yield Prediction Using Multi-Source Data
11	1135	Development of Embedded Systems with Blockchain Technology for Safe Firmware Updates: Electronic Control Units (ECUs) for Vehicles
12	1139	Integrate Deep Learning and Image Processing to Improve Low-Contrast Medical Images: Advancements in Image Enhancement
13	1192	Explainable and Risk-Aware Artificial Intelligence Framework to Recommend Crop and Predict Market Prices
14	1195	An AI-Driven Framework for Intelligent Conference Recommendation and Research Manuscript Analysis
15	1376	AI and IoT Based Smart Traffic Management for Intelligent Transportation Systems
16	1381	An Edge-Deployable Diabetic Retinopathy Screening Pipeline: EfficientNetB0 with Ben Graham Preprocessing and Grad-CAM Explainability
17	1463	Graph Generative Reinforcement Learning for Autonomous Drone Network Self-Healing
18	167	TrafficSense A Machine Learning – Based Intelligent Traffic Management System
19	1225	A Real-Time Workload Monitoring–Based Intelligent Auto-Scaling Framework for Cloud Systems

Technical Session - ICCPCT 2026

Day – 06/08/2026

Time:2.00 pm-4.00 pm

Venue 3: Einstein Hall

Chair: **Dr.Anil J**, Assistant Professor, Electrical and Computer Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram

Session Title/Area:**Artificial Intelligence**

Faculty in Charge: **Dr Greeshma M G**, Assistant Professor, AI , Baselios Mathews II College of Engineering, Kollam

Rapporter: **Shreyas Kumar, Meenakshi M S**

Sl. No	Paper id	Title
1	1421	Seed Quality Evaluation Using Automated Image Segmentation and Morphological Feature Extraction Under Varying Imaging Conditions
2	1422	Self-Evolving Spectrum Sensing Framework for 7G Networks Using Deep Reinforcement Learning
3	1440	Intelligent Fault Diagnosis System for Power Grids using AI and IoT Integration
4	1441	Multi Factor Risk Assessment in Emerging Markets: A Comparative Analysis of Neural Network Architectures
5	1442	The Impact of High-Frequency Trading Algorithms on Market Microstructure and Price Discovery Dynamics
6	1445	Robust Crack Detection in Concrete Structures Using Transfer Learning Techniques
7	734	An FPGA-Based Design of the Extended Logistic Map for Chaos-Driven Security Systems
8	1275	HeatGuard: A Multimodal Deep Learning Architecture for Dynamic Prediction of Individualized Heat-Related Health Risks
9	1452	AI-Driven Predictive Supply Chain Optimization Using Reinforcement Learning Algorithms
10	1579	A Hierarchical Hybrid Rule-Based and SARSA Reinforcement Learning Framework for Safe Energy Management in Renewable Microgrids
11	123	A Scalable Framework for Automated Data Quality Assessment in AI Systems
12	314	Happyhub: Human Emotion Analysis Using Facial and Voice Recognition
13	1323	Physics-Informed Hybrid CNN–Transformer Framework for Real-Time Microstructure-to-Property Prediction in Smart Biomaterials
14	1324	Design of intelligent control system to drive a prosthetic limb using EMG signals from the human body powered by Artificial Intelligence
15	1539	Opt STRMAN: Optimized SwinTrans Multi-Scale Attention Network for Diabetic Foot Ulcer Classification
16	1385	AI-Enabled Digital Twin Framework for Real-Time Structural Health Monitoring and Damage Prediction in Smart Civil Infrastructure

Technical Session - ICCPCT 2026

Day – 06/08/2026

Time:2.00 pm-4.00 pm

Venue 4: Civil Seminar Hall

Chair: **Dr. B. Shunmugapriya**, Asso. Prof , CSE Dept National Engineering College Kovilpatti

Session Title/Area:**Artificial Intelligence and Computing**

Faculty in Charge:**Prof Aswathy Anand**, Assistant Professor, CSE, Baselios Mathews II College of Engineering, Kollam

Rapporter: **Aaron B Panickar, Anupa Alex**

Sl. No	Paper Id	Title
1	92	EdgeShield: Real-Time ML-Driven Radiation Monitoring for Neonatal ICU Safety
2	100	PsyPredict - An EVM based Postpartum Depression Predictor
3	108	A Self-Evolving Cognitive Neuro-Symbolic Architecture for Continually Adaptive Medical Diagnosis
4	35	IoT-Enabled Intelligent Parking System Using NodeMCU for Slot Monitoring and Access Automation
5	72	Adaptive Multi-Parameter Closed-Loop PWM Control Using Machine Learning
6	83	Design of a 32-Bit RISC-V Processor with Dynamic Floating-Point ALU Switching
7	1616	A Numerical Investigation of the Effect of AlGaN Barrier Thickness on AlGaN HEMTs
8	201	Adaptive Neuro-Temporal Fusion Framework for Detecting Cyber-Attacks in Healthcare Cyber-Physical Systems
9	491	A Gaussian Naive Bayes Approach for Personalized Learning in Intelligent Tutoring Systems
10	810	A Hybrid Deep Learning Approach for Emotion Recognition Using Gait Patterns, Body Gestures, and Facial Expressions
11	1196	AI-Based Digital Twin System for Personalized Student Learning and Performance Optimization
12	1197	Chennai Event Show AI: An Intelligent Event Aggregation and Recommendation System Using Machine Learning
13	1198	SmartAid – AI-Enabled First Aid Box for Injury Detection and Treatment Recommendation
14	129	Depression Detection via Multimodal Fusion Using Cross-Modal Transformer Networks
15	861	Adaptive Exploration and Curriculum Learning for Multi-Agent Reinforcement Learning
16	1492	Novel Cybersecurity and the Internet of Things (IoT) for Safeguarding Smart Grids: A Robust Architecture to Prevent Attacks on Specific Infrastructure
17	400	Heart Disease Risk Prediction Using Hybrid Deep Learning on Retinal Fundus Images
18	1232	AI-Based Personalized Movie Scene Reimagining System for Text-Guided Video Synthesis

Day – 06/08/2026

Time:2.00 pm-4.00 pm

Venue 5: Mechanical Seminar Hall

Chair: **Dr Vasanth Kishore Babu**, Associate Professor, Chaitanya Bharathi Institute of Technology

Session Title/Area: **Neural Network & Blockchain**

Faculty in Charge: **Prof. Gimy Joy**, Assistant Professor, CSE Dept, Baselios Mathews II College of Engineering, Kollam

Rapporter: **Vaishnavi, Joveeta Anil**

Sl. No	Paper Id	Title
1	1044	An Innovation of Machine Learning in Mental Health: Predicting Mood in Real-Time using Bio signals from Wearable Devices and Patterns of Mobile Phone Use
2	1051	The Implementation of Augmented Reality (AR) in Biomedical Technologies: A Fresh Approach to Interactive Visualization in Preoperative Planning and Surgical Education
3	1058	Advances in Blockchain and Machine Learning for Privacy-Preserving Healthcare Data Processing: A New Secure Analytics Framework
4	1228	A Decentralized Blockchain Framework for Secure and Privacy-Preserving Healthcare Data Management
5	1359	AI-Driven Adaptive Sharded Blockchain with Zero-Knowledge Traceability (Aasb-Zkt) for Smart Supply Chains
6	1047	Innovative Machine Learning and the Internet of Things for Smart Buildings with Low Energy Use: A Revolutionary Learning Optimization Framework
7	1056	Employ VR and ML for Tailored Education: Revolutionize Intelligent Learning Platforms
8	1322	Reinforcement Learning-Enabled Closed-Loop Adaptive Control Soft Robots for Biomedical Applications
9	382	Design and Deployment of Heartcare - A Machine Learning Based Heart Disease Prediction System
10	402	LGfNN-Stack: Hybrid Model for Phishing Detection
11	489	An Explainable CBAM Enhanced DenseNet121 Framework for Multi-Class Lung Cancer Classification Using CT Scans
12	768	A Hybrid Framework Using Reinforcement Learning with Human Feedback and Federated GANs
13	945	CBAM based Swin-UNet Model for Diabetic Retinopathy Detection Using Retinal Fundus Images
14	671	Neuro-Fuzzy-Based Wind Power Forecasting And Stability Risk Assessment
15	1191	1D-CNN-Based Fault Diagnosis for Traction Motors Using Vibration and Current Signals
16	1379	IoT-Based Smart Sensor Network for Adventure Park Safety and Management
17	1493	Integrate AI into Smart Home Appliances: Voice-Controlled Device Management and Context-Aware Automation with Deep Learning Models

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Time:2.00 pm-4.00 pm

Venue 6: CSE Lab I

Chair: **Dr. J. P. Jayan**, Associate Professor, Department of Software Engineering, Director IQAC, Noorul Islam Centre for Higher Education, Kumaracoil, Kanniyakumari.

Session Title/Area: **Optimising Techniques and Soft Computing**

Faculty in Charge:**Ast Prof. Anakha A S**, Assistant Professor, CSE Dept, Baselios Mathews II College of Engineering, Kollam

Rapporter: **Aneetta John, Jesna Ann Koshy**

Sl. No	Paper Id	Title
1	956	Algal Bloom Detection using Regression and Hyperparameter Tuning
2	1025	Immune-Regulated Swarm Intelligence for Energy- Stable Routing in Mobile AdHoc Networks
3	1068	Optimized Hybrid Ensemble Learning Basis for Accurate Breast Cancer Detection
4	1077	Dynamic Electricity Pricing Forecasting in Renewable Energy Based EV Charging Stations Using Adaptive Kolmogorov-Arnold Graph Network
5	1265	Wireless Sensor Network for EEG-Based Epileptic Seizure Detection Using Edge Intelligence
6	673	Adaptive Hybrid Controller for Real-Time Train Derailment Detection and Control
7	1336	Digital Twin-Assisted Computer Vision Framework for Industry 5.0 Smart Manufacturing Applications
8	1423	Explainable AI-Based Adaptive Neural Network for Transparent Vibration Control in Mechanical Systems
9	538	Experimental Evaluation Of Pongamia Pinnata And Transformer Oil Blends With Enhanced Dielectric Properties And Thermal Stability
10	950	Phishguard AI: Real-Time Phishing URL Detection using Explainable AI and Community Threat Intelligence
11	1248	Adaptive Collaborative Filtering Approach for Smart Digital Library Recommendation Systems
12	841	Probabilistic Graph Learning Based Anomaly Detection Framework for Internet of Things Security
13	1030	Improve Smart City Operations through the Use of AI and the Internet of Things for Adaptive Management of Urban Infrastructure
14	1072	Implement Quantum Computational Models with Big Data Analytics: An Architecture for High-Volume Data Processing
15	1454	AI-Enabled Intrusion Detection in Wireless Sensor Networks for Critical Infrastructure

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Time:2.00 pm-4.00 pm

Venue 7: CSE Lab II

Chair: **Dr.X.Felix Joseph**, Professor, Department of Electrical and Electronics Engineering, Loyola Institute of Technology and Science, Loyola Nagar, Thovalai-629302 Kanyakumari District.

Session Title/Area:**Image Processing**

Faculty in Charge:**Ast Prof Anu Varghese**, Assistant Professor, ECE Dept , Baslios Mathews II College of Engineering, Kollam

Rapporter: **Sivani, Parthasarathy B**

Sl. No	Paper Id	Title
1	380	VGG19-Driven Artificial Intelligence Framework for Automated Liver Disease Detection and Risk-Aware Clinical Decision-Making Toward Improved Health and Well-Being
2	724	Hybrid Convolutional and Transformer Models for Accurate Brinjal Crop Disease Detection
3	846	CrackSentinel-MobileNet: A Lightweight Transfer Learning Framework for Automated Structural Surface Crack Detection in Civil Infrastructure
4	1148	Graph spectral fusion of Decomposed Physiological signals for real time Human stress Detection
5	1391	An Advanced Hybrid Vision Transformer for MRI-Based Automated Brain Tumour Analysis
6	843	Probabilistic Capsule Diffusion Framework for Uncertainty Aware Medical Image Reconstruction
7	844	Topological Data Analysis Driven Deep Network for Structural Medical Image Interpretation
8	1377	FPGA-Based Implementation and Simulation of a 3×3 Convolution Accelerator for Edge Detection
9	1462	Real-Time CT-Based Renal Calculus Segmentation and Analysis
10	1234	Rotatory Machine Fault Detection Using CNNs on Spectrogram Signal Data
11	787	LiDAR-Based Automated Stagger Calculation for Athletics Tracks
12	178	Edge AI-Based Smart Disaster And Grid Management System With Custom FPGA Boards
13	1326	Design and Implementation of an FPGA-Based Neopixel LED Driver Using Verilog HDL
14	1348	A Comprehensive Review of 5G Security Architecture and Quantum-Safe Communication Using Quantum Key Distribution and Post-Quantum Algorithms
15	1090	Machine Learning-Assisted Design of a Wideband Compact Corporate-Fed Quad-Branch Pentagon Microstrip Patch Antenna for mmWave 2X4-Element MIMO 6G Applications
16	284	Integrated IoT Platform with Web Interface for Wireless Health Monitoring and Battery Energy Management
17	1075	Monitoring Atmospheric Methane Emissions at Fine Spatial Scales using EnMAP Imaging Spectroscopy and Data-Driven Retrieval Methods
18	1352	The Role of Risk Index, Infrastructure Index, and Education-Health Interaction in Predicting Child Marriage in India: A Machine Learning Approach.

Technical Session - ICCPCT 2026

Day – 06/08/2026

Time:2.00 pm-4.00 pm

Venue 8: Board Room

Chair: **Dr.Reeba Rex S**, Associate Professor, Department of Electronics and Communication,UKF College of Engineering and Technology Paripally. Kollam

Dr.J Arul Linsely , Associate Professor, Noorul Islam Centre for Higher Education, Kumara coil, Kanyakumar.

Session Title/Area: **Electronics and Communication**

Faculty in Charge:**Ast Prof. Sameena M H**, Assistant Professor, ECE Dept, Baseliros Mathews II College of Engineering, Kollam

Rapporter: **Sona Sunu, Akshay Bose**

Sl. No	Paper Id	Title
1	176	Design and Implementation of a Custom Multiply Accumulate Instruction in an Open-Source RISC-V Processor Core
2	1396	Forgesense:Low-Cost Machine-Level Energy and Cooling Monitoring System for Metal Processing Industries
3	468	Electric Field Crowding Suppression in 4H-SiC Trench MOSFETs via Asymmetric Bottom Oxide Design
4	865	IRIS A Real-Time Gaze-Controlled Wheelchair System for Individuals with Severe Motor Impairments Using Intensity-Based Iris Localization
5	1393	Design and Verilog Implementation of an Adaptive SEC-DED Based Fault-Tolerant DMA Controller with Dynamic Burst Optimization
6	1458	Comparative Performance Analysis of LFSR Techniques Using FPGA for Random Number Generation
7	136	Web Server Based Platform with GPS for High-Speed Data Transfer and Advanced Monitoring
8	209	Ambulance Route Intimation System Using RSSI Nodes and GSM Communication
9	289	Intelligent Antenna Adaptive Tuning System Using Machine Learning Techniques
10	359	Optimization-Based Data Packet Routing in Communication Networks using Google OR-Tools
11	812	Proximity-Aware Multi-User Smart Home Automation using BLE and Cloud Synchronization
12	838	Quantum Reinforcement Learning Assisted Spectrum Allocation Framework for Sixth Generation Networks
13	842	Quantum Reinforcement Learning Driven Adaptive Resource Allocation for Internet of Things Devices
14	638	Ensuring Robust Bus Contention Handling on MIPI I3C: A Verification Perspective
15	1587	Grid Voltage Synchronization In Photovoltaic Energy Systems Using Srf-PLL Controller
16	1534	Energy Efficient Routing In Manet For Improved Communication Using Shrike Optimization Algorithm
17	1636	Randomized Exponential Charge–Discharge Carrier PWM for Harmonic Reduction in Three-Phase Induction Motor Drives
18	1166	Sonar Vision : Acoustic Perception for Navigation and Mapping
19	429	Robust Adaptive Beamforming using Kriging spatial Modeling for Radar Signal Processing
20	1131	Reconfigurable Metamaterial-Enhanced Terahertz Patch Antenna in 6G Communication and Biomedical Sensing
21	849	Energy Optimization in Wireless Sensor Networks using Machine Learning Algorithms
22	859	Wireless Communication Technologies for Electric Vehicles: Architecture, Protocols, Performance Analysis, and Future Directions

Technical Session - ICCPCT 2026

Day – 06/08/2026

Time:2.00 pm-4.00 pm

Venue 9: MBA Class I

Chair: **Dr.Muthukumar Paramasivan**, Professor, Department of Electrical and Electronics Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, Tamil Nadu

.Session Title/Area: **Electrical Vehicle and Renewable Energy**

Faculty in Charge:**Ast Prof. Shyma S** , Assistant Professor EEE Dept, Baselios Mathews II College of Engineering, Kollam

Rapporter: **Adwaitha Renjith, Deepu**

Sl. No	Paper Id	Title
1	208	Improved Ergonomic Design of a Portable Electric Knapsack Electric Sprayer
2	281	Design and Development of Solid Oxide Electrolyser based HHO Gas Co-Generation for Cooking Applications
3	496	Next-Generation EV Battery Management Using 5G-Enabled Dual-Chemistry Energy Storage Systems
4	659	AI-Driven and Cyber-Secured Electricity Theft Detection Using Adaptive Neuro-Fuzzy Inference System (ANFIS)
5	733	IoT-Based Intelligent Plant Monitoring System with AI-Enabled Vision
6	833	Quantum Inspired Multi Objective Optimization Framework for Electric Vehicle Powertrain Design
7	834	Hybrid Physics Informed Neural Network for Thermal Aware Electric Vehicle Battery Management
8	836	Causal Inference Based Predictive Framework for Electric Vehicle Energy Consumption Forecasting
9	855	GNN-RL APF Switching Controller for Power Quality Enhancement in Renewable Integrated Grids
10	864	A Solar Powered Automated Electric Vehicle
11	882	Dynamic Control and Optimization of Distributed Energy Resources in a Microgrid Using PSO, GA, and Machine Learning
12	916	A Comprehensive Review of Electric Vehicle Charging Technologies, Architectures, Power Flow Mechanisms, and Standardization Frameworks
13	917	Development of an AI-Driven Multi-Sensor Health Monitoring System for Real-Time Physiological Analysis and Insight Generation
14	951	Green Access: A Hybrid Multi-Feature Adaptive Machine Learning Framework for Predicting National Electricity Access in Sustainable Energy Transitions
15	957	A Novel Two-Stage Residual- Stacking Framework for Photovoltaic Power Output Prediction
16	991	SHOA-Based Optimal DER Placement Considering EV Charging Dynamics in Indian Radial Distribution System
17	1366	Explainable AI for Electric Vehicle Charging Optimization: Challenges, Opportunities, and Future Directions
18	1541	Dream Optimized Explainable Bayesian Gated Recurrent Unit for Remaining Useful Life and State of Health Prediction in Electric Vehicles
19	1560	An Approach for EV torque disturbance prediction using Energy Valley Optimized Gated Recurrent Unit
20	1395	A Cloud-Assisted Framework for Battery Fault Diagnosis and State Estimation via ThingSpeak IoT.

Technical Session - ICCPCT 2026

Day – 06/08/2026

Time:2.00 pm-4.00 pm

Venue 10: MBA Class II

Chair: **Dr. R. Madhumathi**, Associate professor, Department of Computer Science and Engineering, Sri Ramakrishna Engineering College Coimbatore

Dr. Pravin Rose T, Professor, Vidya Academy of Science and Technology Technical Campus, Kilimanoor

Session Title/Area: **Artificial Intelligence Application in Robotics and Engineering**

Faculty in Charge: Prof. Navami P M, Assistant Professor, CE Dept, Baseliros Mathews II College of Engineering, Kollam

Prof. Gayathri A R, Assistant Professor, CE Dept, Baseliros Mathews II College of Engineering, Kollam

Rapporter: **Sruthy Prasad, Siva S**

Sl. No	Paper Id	Title
1	443	Smart Voice Controlled Wheelchair With Automated Navigation
2	495	A Secure Multi-Drone Video Streaming Architecture Using 5G Networks and Machine Learning-Based Access Control
3	576	Design of an AI Adoption Based Machine Learning Model for Predicting Employee Performance in Indian Higher Education
4	1107	HawkEye Drone UAV for advanced landmine detection and autonomous control
5	1150	Energy-Efficient Transformer Framework for MPPT and Harmonic Mitigation in Multilevel Inverters
6	1170	SMART WEATHER STATION WITH VIBRATION BASED EARTHQUAKE ALERT
7	1220	Multinomial Logistic Regression for Predicting Sustainability Levels in Rural Ecotourism Areas
8	1325	AI-Integrated Smart Clinical Infrastructure for Adaptive Patient Outcome Prediction and Healthcare Automation
9	1334	AI-Driven Smart Showrooming Framework for Personalized Customer Engagement & Omnichannel Retail Intelligence
10	1367	Hybrid AI–CFD Modelling of Nano-PCM Assisted Microchannel Cooling for High-Performance Electronic Devices: A Review
11	1418	LiDAR-Based Autonomous Wheelchair Using ROS2 Navigation Stack
12	1460	Hybrid AI–CFD and Molecular Dynamics Framework for Nanoengineered Microchannel Cooling Systems in Advanced Electronics.
13	1466	Comparative Analysis of Non-Invasive fPCG and fECG for Fetal Heart Rate Monitoring
14	1511	AI Enabled Digital Financial Inclusion Framework for the Unorgaized Sector: A Study on Small Finance Banks in Kerala
15	1533	WaveAtom-Based Denoising and Machine Learning Framework for Fetal Phonocardiography Classification
16	1409	ML-Based Real-Time Landslide Susceptibility Mapping Using Multisource Geospatial Data and IoT-Enabled Soil Monitoring Systems
17	1129	An Improved Power Factor Correction Converter With Ai-Powered Predictive Maintenance For Pmsm Drives
18	214	AI- Powered Multi-Language Resume Analyzer And Job Recommendation System
19	464	Optimized Multilevel Inverter Control for Reactive Power Compensation in PV-Driven STATCOM Systems

ICCPCT 2026
TECHNICAL SESSION DETAILS
07-08-2026
Day 2

Technical Session - ICCPCT 2026

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 1: IQAC Room

Chair: **Dr.R.Kingsy Grace**, Associate Professor, Sri Ramakrishna Engineering College, Coimbatore

Session Title/Area: **Artificial Intelligence**

Faculty in Charge: **Prof. Preethi B**, Assistant Professor, Basелиos Mathews II College of Engineering, Kollam

Rapporter: **Bella Ann Mathew, Irene Sara Anil**

Sl. No	Paper id	Title
1	138	A Heterogeneous Nutritional Risk Prediction Approach for Pregnant Women Using Explainable AI and XGBoost Classifier
2	146	Hybrid Deep Learning–Pedagogical Analytics Model for Enhancing Curriculum Development in English Education
3	148	Hybrid Knowledge Graph Embeddings Model Framework for Smart Soil Analysis and Precision Fertilizer Recommendation
4	180	A Hybrid LightGBM and Grey Wolf Optimization Framework for Predicting Spontaneous Combustion Temperature in Coal Mines
5	188	UCS Prediction of Carbonate Rocks Using Deep Feedforward Neural Networks with Aquila Algorithm Model
6	197	Hybrid Deep Learning Based Swin Transformer and ConvLstm for Enhanced Drilling Waste and Formation Damage Mitigation
7	198	Emoji Extraction Using Bidirectional Encoder Representations from Transformers with Deep Convolution Module
8	225	A Hybrid Autoencoder with Temporal Fusion Transformer Model for Accurate Dust Prediction In Mining Environments
9	226	Enhancing Financial Fraud Detection Using LSTM–DNN with Hyena Optimization: A Comparative and Explainable Deep Learning Approach
10	313	Deep Neural Network and Grey Wolf Optimization-Based Industrial Application in Copper Production
11	327	Multisensory Data-Driven Fault Prediction Model Using Conformer-Attention Model
12	329	Metaheuristic-Enhanced Dual Attention Networks for Predictive Analysis of Carbon Sequestration Dynamics
13	394	Adaptive Cross-Modal Fusion With Instance-Level Gating for Vision–Language Understanding
14	405	Multimodal AI-Based Baby Monitoring System with Real-Time Audio-Visual Behavior Analysis.
15	410	Machine Learning Framework for Assessing Digital Literacy in Higher Education
16	446	Smart AI-Integrated System for Predictive Maintenance and Condition Monitoring in Industries
17	467	Real Time Scream Detection for People's Safety with Integration of AI and NLP
18	509	Enhancing Air Quality Prediction through a CNN-LSTM Based Deep Learning Model
19	577	Self-Supervised Multimodal Learning for Unified Soil–Climate–Crop Representation in Sustainable Agriculture
20	557	A Secure IoT-Based Biomedical Monitoring System Using Machine Learning–Driven Intrusion Detection and Data Encryption
21	1570	Attention Driven Temporal Convolutional Network for Multi-Class Electromagnetic Interference Signal Classification
22	1317	Bi-LSTM-Based Adaptive Traffic Prediction for Software-Defined Networks

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 2: EEE Seminar Hall

Chair:**Dr.Anitha A**, Associate Professor of Computer Science, Noorul Islam Centre for Higher Education, Kumaracoil, Kanniyakumari.

Session Title/Area:**Artificial Intelligence**

Faculty in Charge:**Ast Prof. Jerry Isac**, Assistant Professor, AI Dept Basелиos Mathews II College of Engineering, Kollam

Ast Prof. Anjana K P, Assistant Professor, AI Dept, Basелиos Mathews II College of Engineering, Kollam

Rapporter: **Shibin Shaji, Akash T**

Sl. No	Paper id	Title
1	603	A Climate-Synchronized Digital Twin Paradigm for Multi-Infrastructure Urban Resource Orchestration Using Hybrid Intelligence
2	679	INTELLIGENT TRAFFIC SIGNAL CONTROL SYSTEM USING VEHICLE DETECTION
3	791	Hybrid Intelligent Framework for Logistics Routing and Transportation Optimization in Supply Chain Management
4	852	EfficientNet-based Cotton Disease Detection and Disease Treatment Support System for Smart Farming
5	854	CampusBite: A Machine Learning-Enabled Framework for Predictive Food Demand Modeling and Quality Evaluation in Sustainable Campus Dining Systems
6	874	AI-Driven Adaptive Task Offloading in Fog–Cloud Architecture for Smart Healthcare Monitoring
7	877	Hybrid ConvLSTM–ST-GAT with Temporal Self-Attention for Spatiotemporal Crime Hotspot Prediction and Cross-City Generalization
8	879	Gender Bias Detection and Mitigation in Income Prediction Using Machine Learning
9	902	Hybrid AI-Based Substance Identification Using Multienergy X-Ray Imaging Enabled by Perovskite Detectors
10	1019	Fake News Analysis using OCR and RAG: A Hybrid Ensemble Framework for Multimodal Misinformation Detection
11	1020	SehatSanketh: A Unified AI Healthcare Platform for Triage Classification, Readmission Prediction, and Multilingual Medical Translation for Indian Healthcare
12	1086	Reconceptualizing Observability for Agentic AI Systems: A Trace-Centric Architecture for Interpreting Non-Deterministic Workflow Behavior
13	1087	Hidden Coordination Costs in Multi-Agent AI Systems: A Comparative Study of Communication Efficiency Across LangGraph, CrewAI, and OpenAI Agents
14	1094	Aircraft Detection in Satellite Imagery using Deep Learning Object Detectors
15	1096	Quantifying and Controlling Defect Amplification in Multi-Stage ELT Pipelines Using Directed Acyclic Transformation Models
16	1152	Marketing in the Mirrorworld: Investigating Consumer–Brand Interaction and Trust in Immersive Metaverse Commerce Environments Using Behavioral Modelling
17	1224	Trust-Aware AI Scheduling with Confidence Calibration and Failure Handling
18	1227	Adaptive and Interpretable Access Control for Serverless Applications using Reinforcement Learning
19	635	Smart Helmet with Automatic Emergency Alert Accident Detection System
20	735	Early Mango Fruit Fly Detection Using Visual and Acoustic Sensing
21	1619	Power Quality Enhancement Using with Five Level Cascaded Multilevel Inverter Based on Black Widow Optimization

Technical Session - ICCPCT 2026

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 3: Einstein Hall

Chair: **Dr. Jeyasheela Y**, Associate Professor, NICHE Kanyakumari

Session Title/Area: **Artificial Intelligence and Software Engineering**

Faculty in Charge: : **Dr Greeshma M G**, Assistant Professor, Basелиos Mathews II College of Engineering, Kollam

Rapporter: **Shreyas Kumar, Meenakshi M S**

Sl. No	Paper id	Title
1	106	Causally Constrained and Anatomically Grounded Interpretability in Deep Learning for Chest Radiograph Diagnosis
2	153	Hybrid Semantic Learning and Ensemble Classification Model for Business English Communication Analysis
3	384	A Double Layer Stacking Classifier Based Explainable Tax Evasion Fraud Prediction with Optuna and SMOTE-Tomek
4	652	Forecasting Global Energy Demand Shifts under Emerging Policy Frameworks and Evolving Economic Development Scenarios
5	1618	Determinants of Cloud Computing Adoption in India: An Extended Technology Acceptance Model Integrating Perceived Benefits, Risks, Costs, and Ubiquity
6	1126	Hybrid Artificial Neural Network and Genetic Algorithm-Based Model for Energy Management in Solar Smart Lighting Systems
7	1229	Explainable Machine Learning Framework to Predict Corporate Bankruptcy
8	1231	Ensemble Learning Based Heart Disease Prediction with Explainability and Threshold Optimization
9	1335	AI Driven Asset Management System with Predictive Analytics
10	1338	Lightweight Multimodal Framework Depression Diagnosis using Cross-Attention-Based Fusion of Features and Layer Normalization
11	1357	A Multi-View Vision-Based Framework for Cricket Shot Analysis with Kinematic Contact Detection and Biomechanical Evaluation
12	1378	MCSafe-GSN-HOL: A Formal Assurance Framework for Machine-Checkable Safety Cases of Deployed LLM Agents
13	1399	Predictive Artificial Intelligence Approaches for Accurate Drug Classification in Pharmaceutical Industry
14	1405	ELT Pipelines Enhanced with Causal Intelligence for Reliable and Bias-Resilient AI Decision Systems
15	530	Secure Aggregation in Federated Learning for Non-IID Data Environments
16	867	LifeSustain: A Digital Platform for Sustainable Redistribution of Essential Surplus Resources
17	1398	SpeakEasy: Learn, Listen & Speak with Confidence
18	08	Multi-Modal Soil Health and Crop Productivity Prediction using Hybrid Deep Learning and Machine Learning Models
19	915	A Hybrid CNN–Transformer Framework with Wavelet-Based Feature Extraction for Multimodal Cancer Detection
20	57	Detection and Classification of Knee Osteoarthritis Detection Using Deep Learning Techniques
21	1456	Enhancing Power Regulation Using Bidirectional SEPIC with MPPT Based Fuzzy Logic for Navigation in Aerospace Vehicles
22	52	Improving Cybersecurity with Artificial Intelligence: Identification, Examination, and Mitigation of Cyber Threats

Technical Session - ICCPCT 2026

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 4: Civil Seminar Hall

Chair: **Dr. Divya S.V** , Professor, Department of Artificial Intelligence and Data Science, KPR Institute of Engineering and Technology, Avinashi – Coimbatore

Session Title / Area: **Neural Network and Computing**

Faculty in Charge: **Prof Aswathy Anand**, Assistant Professor, Basелиos Mathews II College of Engineering, Kollam

Rapporter: **Aaron B Panickar, Anupa Alex**

Sl. No	Paper Id	Title
1	247	Enhancing Network Security Using Firefly-Optimized Dae-Xformer-Marn Based Deep Learning Models for Intrusion Detection
2	350	Intelligent DDOS Detection in Software-Defined Networks Using Graph Neural Networks with Grasshopper Optimization
3	715	Design and FPGA Implementation of a Complex Multiplier Using Xilinx IP Core
4	1022	Climate-Resilient Crop Yield Forecasting Using Deep Learning
5	1101	Reinforcement Learning-Based Hybrid System for Autonomous Pest Detection and Control in Sustainable Agriculture Using IoT and Drone Networks
6	1109	HADGL: A Hierarchical Attention-Based Graph Learning Framework for Multi-Tier Supply Chain Disruption Prediction
7	1153	Spiking Neural Network Based Intrusion Detection Framework for Manet Security Using White Shark Optimization
8	1154	Human Stress Detection Using Reindeer Optimization-Driven Multi-Scale Attention Residual Network Architecture
9	1207	Real-Time AI/ML Based Phishing Detection and Prevention System
10	1226	An End-to-End Cloud-Based Pipeline for Real-Time Content Moderation in Social Media Platforms
11	1330	Blockchain Based Secure Record Management System for Maternity Leave and Employee Welfare Administration
12	1346	IoT-Enabled Hybrid SVM–Random Forest-Based Model for Real-Time Air Pollution Prediction in Smart Cities
13	1406	IoT and AI Integration for Monitoring Prenatal Diagnostics to Prevent Female Foeticide
14	1439	Neuromarketing Meets Industry 4.0 An IoT-Driven Framework for Real-Time Consumer Behavior Monitoring
15	109	Academic Fraud Prediction Scheme for Students and Teachers Using Ensemble Voting Classifier and Machine Learning
16	107	Exploring Hybrid Energy Harvesting Techniques for Smartphone Charging Applications
17	1615	Intelligent Traffic Flow Forecasting Using Optimized Deep Learning Frameworks: Current Trends and Future Directions
18	10	ML-Based Smart Greenhouse Monitoring And Control System Using Iot And Embedded Sensors
19	637	Deep Learning Driven Traffic Sign Board Detection for Real Time Road Safety Monitoring
20	680	A Hybrid AI-Driven Post-Quantum Encryption Framework for Secure Medical Data Transmission in IoMT Systems
21	731	SAFE-LINK: Invisible LoRa-DTN Wearable Safety Network for Women in Network-Denied Environments
22	1321	Distributed Reinforcement Learning for Cooperative UAV--UGV Formation Control with Multirate Dynamics

Technical Session - ICCPCT 2026

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 5: Mechanical Seminar Hall

Chair: **Dr. P. Jenopaul**, Professor, Adi Shankara institute of engineering and technology

Session Title/Area: **Electrical Vehicle and Energy**

Faculty in Charge: **Prof. Shyma S** , Assistant Professor, EEE Dept, Baselios Mathews II College of Engineering, Kollam

Rapporter: **Vaishnavi, Joveeta Anil**

Sl. No	Paper Id	Title
1	203	Influence of Renewable Energy Expansion on Electrical Equipment Manufacturing in Bangladesh
2	227	An Explainable Photovoltaic Power Output Prediction Model Using Light GBM, RFE, Geospatial Dataset, and SHAP
3	357	Hybrid Snow Leopard Optimization and Multi-Head Attention Transformer for Accurate CO ₂ Emission Estimation in Fossil Fuel Power Plants
4	408	Metaheuristic Aided Double Integral Sliding Mode MPPT Control for Efficiency Enhancement in PV Systems
5	424	Intelligent Battery Management System with Predictive Maintenance and PCM Cooling for Enhanced Energy Storage Reliability
6	445	Integrated PV-Fed Bidirectional EV Charging System with Dab Converter and Grid Support for G2V/V2X Applications
7	460	ABC-PI Controlled Soft-Switched Multi-Port Converter for Hybrid Energy Systems
8	461	Smart Energy Harvesting Robotic Exoskeleton for Sustainable Mobility Assistance in Rehabilitation
9	487	Comprehensive Evaluation of a PV-Grid Connected System using Quadratic High Gain Boost Converter with Lemur Optimized ANN-Based MPPT Controller
10	631	Modified SVPWM Fed PFC Front End Vienna Rectifier for EV Charging Applications
11	672	AI Based Intelligent Electric Vehicle Charging and Energy Management System for Smart Cities
12	941	Bifurcation Control of SSR by Battery-Fed STATCOM
13	952	Automatic Medical Dispatch and Remote Monitoring System Using IoT
14	999	Differential Evolution-Based Secure Smart Energy Management with Demand Response and DER Integration
15	1118	Integration of Thermoelectric Energy Harvesting with IoT-based Home Automation
16	1149	Explainable and Generative AI for Smart Grids: A Unified Framework and Research Directions
17	1222	Optimal Placement of Distinct-Size EV Charging Stations Using Exhaustive Search and BFS Load Flow
18	1266	Hybrid Fuzzy–Neural Network Approach for Energy Management in Solar-Powered Electric Vehicle Systems
19	1369	XDT-SG: Explainable AI-Driven Digital Twin Framework for Real-Time Fault Prediction and Self-Healing Smart Grids
20	1620	Noval Dual Split Source Multilevel Inverter with Single-Stage-Integrated Dynamic Voltage Boosting System for Aerospace Navigation

INTERNATIONAL CONFERENCE ON CIRCUIT POWER & COMPUTING TECHNOLOGIES (ICCPCT-2026)

Technical Session - ICCPCT 2026

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 6: CSE Lab 1

Chair: **Dr.Muthukumar Paramasivan**, Professor, Department of Electrical and Electronics Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, Tamil Nadu

Dr. Sudhakar Babu T, Professor, Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology

Session Title/Area:**Artificial Intelligence Application in Engineering and Power Systems**

Faculty in Charge: **Ast Prof. Anakha A S**, Assistant Professor, Basелиos Mathews II College of Engineering, Kollam

Rapporter: **Adwaitha Renjith, Deepu**

Sl. No	Paper Id	Title
1	207	An Intelligent Dermatosiс Diagnosis Framework Using a Hybrid BiLSTM and EfficientNetB0 Model Optimized By Particle Swarm Optimization
2	296	A Pancreatic Cancer Survival Prediction Based on Coot Bird–Optimized Multilayer Perceptron Framework
3	298	Design and Implementation of a PFC-Assisted MPPT Controller with DC–DC Converter for Grid Connected Photovoltaic Systems
4	344	Digitalization of Heavy Vehicle Booking: Improving Transparency, Cost Efficiency, and User Satisfaction
5	347	PSO-Optimized Graph Attention Residual Regression Model for CO, [CO] _2,H_2, and [CH] _4 Prediction from Biomass Gasification
6	422	Multilevel Inverter with Switched Capacitor Technique and Fuzzy Controlled Converter for Efficient PV Grid Integration
7	423	Iot-Based Intelligent Fault Analysis of Distribution Transformers with Aquila Optimization and Secure Transformer Attention Network
8	449	Implementation of Modified B-PFC Converter with Synchronous Rectification for High-Efficiency AC–DC Power Conversion System
9	453	Implementation of MPWM Interleaved DC–DC Converter with Voltage Doubler for EV Charging Stations
10	483	Design and Implementation of a PWM Rectifier - Based VSC - HVDC System for Enhanced Reactive Power Management and Grid Stability
11	847	IoT-Enabled Next-Generation Smart Grids: Technologies, Applications, and Security Perspectives
12	934	Application of SHOA for Disaster-Resilient Multi-Objective Optimization of Prosumer-Based Practical Indian Distribution System
13	1102	Design and Development of Coupled Inductor Interleaved Boost Converter for High Voltage EV Charging Applications
14	1132	Biogas-Based Decentralized Power Generation for Rural Electrification
15	1141	Development of RBFNN Machine Learning MPPT Algorithm for Improved KSK Converter
16	1223	Performance Assessment of Metaheuristic-Optimized PID Controllers for Multi-Area LFC
17	1235	Design and Analysis of High Speed Permanent Magnet Synchronous Generator for Grid Tied System using Falcon Optimized PI Controller
18	753	Early detection of Arthritis using Biomedical Image Analysis
19	807	Transformer Based Modeling of Spatio Temporal Facial Dynamics for Micro-Expression Recognition
20	948	AI-Based Predictive Thermal Control for Neonatal Incubators Using Digital Twin
21	466	A Survey on IoT-Based Real-Time Crop Development Applications
22	128	ACL Injury Smart Indicator Using IOT
23	1542	IDSIoTAI: An AI-Driven Intrusion Detection Framework for Smart-Home IoT Environments using Naïve Bayes and Support Vector Machine algorithms

Technical Session - ICCPCT 2026

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 7: CSE Lab II

Chair: **Dr.Shaji R S**, Professor, St. Xavier Catholic College of Engineering, Nagercoil

Session Title/Area: **Electronics Communication and Image Processing**

Faculty in Charge: **Ast Prof Anu Varghese**, Assistant Professor, ECE Dept, Baseline Mathews II College of Engineering, Kollam

Rapporter: **Sona Sunu, Akshay Bose**

Sl. No	Paper Id	Title
1	212	Intelligent Intrusion Detection System Using Hybrid Swin Transformer-RNN for Efficient Cyber Threat Mitigation
2	340	An Intelligent Deep Learning–Based Intrusion Detection System for IoT Nodes Using CNN–BiLSTM and Grasshopper Optimization
3	355	Vision Transformer-Based Detection of Counterfeit Bangladeshi Banknotes Using the DeiT-Tiny Architecture
4	406	A Sensor-Driven Waste Retrieval And Monitoring Model Using Iot For Campus Sustainability Goals
5	826	Adaptive Precision Hierarchical Vedic Multiplier with CSA-Based 64-Bit Optimization for Low-Power FPGA Applications
6	845	License Plate Recognition System Using Traditional Image Processing and OCR on KRIA KR260 (CPU-Based Implementation)
7	1106	A Stacking Enriched Explainable Machine Learning Approach for Multiclass DoS Attack and Network Intrusion Prediction
8	1124	End-to-End LoRaWAN-Based IoT System for Real-time Athlete Tracking in Endurance Races
9	1125	Low-Power Physical Design Analysis of FIFO Architectures in 28nm CMOS Using Clock Gating
10	1165	A Soft Voting Ensemble and Transfer Learning Based Multi-class Skin Disease Prediction Using ResNet50 and EfficientNetB0 Models
11	1172	Stereo Vision Disparity Map Algorithm for Depth Estimation and 3D Reconstruction
12	1333	Solar-Powered LoRa-Based IoT Smart Farming System
13	1337	Intelligent Medical Image Analysis for Osteoporosis Classification Using Red Deer Optimized Attention Transformer
14	1350	Real-Time Edge Computing Framework for Drowsiness Detection in ITS using CLBP
15	09	Next-Gen IoT-Driven Real-Time Fuel Level Tracking and Optimization System
16	185	Adaptive Hybrid CNN–Wavelet Framework for Low-Light Medical Image Enhancement and Diagnosis Support
17	554	A Multi-Phase Radiomic–Attention Fusion Network for Automated Lesion Segmentation and Cancer Classification Using Magnetic Resonance Imaging
18	555	Adaptive Block Artifact Detection and Quality Assessment (ABAD-QA) for Enhanced Image Compression Analysis
19	514	Predicting Alzheimer’s Disease Progression from Mild Cognitive Impairment via Automated Brain Age Modeling
20	515	Automated Detection of Cerebral Microbleeds in Susceptibility-Weighted MRI Using a Multi-Scale Deep Learning Framework
21	517	A Preprocessing-Optimized Deep Learning Framework for Robust Leukemia Cell Segmentation and Multi-Class Classification in Peripheral Blood Smear Image
22	644	A 2.5D Multimodal Approach for Brain Tumor Segmentation with Improved Robustness to Incomplete MRI Inputs
23	736	Edge–Cloud Collaborative Deep Learning Framework for Retinal Micro-Lesion Segmentation in Tele-Ophthalmology
24	1634	Reinforcement-Learning-Based Coordinated Control of a Bidirectional Multiport Converter for Sustainable Electric Transportation Systems
25	1635	Soft-Switching Power Converter for Energy-Efficient Renewable Power Systems

Day – 07/08/2026

Time: 9.30 pm-12.30 pm

Venue 8: Board Room

Chair: **Dr.Siva Balan R V**, Associate Professor, Christ University, Bangalore

Session Title/Area: **Block Chain & Optimization Techniques**

Faculty in Charge: **Prof. Gimy Joy**, Assistant Professor, EEE Dept, Baselios Mathews II College of Engineering, Kollam

Rapporter: **Sivani, Parthasarathy B**

Sl. No	Paper Id	Title
1	206	Architectural Design of an Obfuscated ECDSA Engine against Micro-Architectural Attacks in Cloud Blockchains
2	343	An Intelligent Cardiovascular Disease Detection Using Whale Optimization and Hybrid Resnet-50–Vision Transformer Network
3	531	A Review on Blockchain-Enabled Federated Learning: Security, Privacy, Scalability and Incentive Challenges
4	804	Optimized Energy Efficient Resource Management in Cloud Datacenters using Green Cloud Sim
5	869	A Hybrid Graph Neural Network based Adaptive Routing Optimization in Software-Defined Networks
6	871	Multi-Queue Priority-Based Scheduling for Real-Time Edge Computing Applications
7	1085	Designing Persistent Intelligence in Marketing Agents: A Hybrid Memory–Retrieval Framework for Context-Aware Knowledge Generation
8	1114	Implementation and Comparative Analysis of Rank Attack Mitigation Models in RPL-Based IoT Networks
9	1142	A Trust-Aware ICN–Block Chain Framework for Secure VANETS Enabled by PBFT
10	1204	A Multidimensional Trust Fusion and Transmission Path-Backtracking Framework for Secure Communication in VANETs
11	1217	A Self-Describing QR Anchor Framework for Blockchain-Secured Document Verification and Forgery Detection
12	1238	Blockchain-Enabled Cybersecurity Techniques, Challenges, and Future Directions for Secure Smart Grids
13	1343	Video Streaming Optimization Using On-Demand Transcoding and Two-Level Cache
14	1404	Blockchain-Based Evidence Management System for Female Foeticide Litigation
15	1407	Blockchain-Based Chain of Custody for Digital Forensic Evidence Integrity
16	714	AI-Assisted Penetration Testing: Evaluating Autonomous Wireless Attacks Using Reinforcement Learning

