IEEE SILCON 2025 – Program Schedule

National Institute of Technology Nagaland
6–8 November 2025

06 November 2025 - Day 1

TIME	PROGRAM
09:30–10:30	INAUGURAL SESSION
10:30-11:00	HIGH TEA
11:00–12:00	KEYNOTE 1 – PROF. BHIM SINGH
12:00–13:00	KEYNOTE 2 – PROF. B.K. PANIGRAHI
13:00–14:00	LUNCH BREAK
14:00–15:00	TUTORIAL – PROF. SUJIT BISWAS
15:00–15:30	TEA
15:30–17:30	SESSION I – TECHNICAL PAPERS

Track 5: Artificial Intelligence, Data Science & Computing – Session I (Part 1) (15:30–17:20)

Venue: **Lecture Hall 1**

Chair: **Prof. Themrichon Tuithung & Dr. Arambam Neelima**

Student Co-ordinator: **Mr. Shyam Sunder Jannu Soloman**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:30	15:40	1008	FEDSECIOT: A FEDERATED LEARNING FRAMEWORK FOR COLLABORATIVE AND PRIVACY-PRESERVING BOTNET DETECTION IN IOT NETWORKS WITH ADVERSARIAL ROBUSTNESS	SANJOY GHIMIRE, SIBESH LODH
15:40	15:50	1119	NOVEL HYBRID RETRIEVAL AND RERANKING WITH SCORE FUSION FOR ADVANCED FINANCIAL QUESTION ANSWERING USING LARGE LANGUAGE MODELS	VARALAKSHMI PERUMAL, S RAVISHANKAR
15:50	16:00	142	AUTOMATIC NAMED ENTITY RECOGNITION FOR NAGAMESE LANGUAGE - A LOW-RESOURCE LANGUAGE	TEISOVI ANGAMI, SAJJADUL ISLAM, KEVINGULIE RUTSA, CHAYA NONE
16:00	16:10	1028	GENE ONTOLOGY-BASED DRUG FUNCTION PREDICTION VIA MULTI-OUTPUT DEEP LEARNING FRAMEWORK	PRANAB DAS, BISHAL CHHETRY, RAJKUMAR JOYDEV BORAH
16:10	16:20	1031	ANALYSIS OF BER FOR QUANTUM INSPIRED NOMA SYSTEM OVER VARIOUS FADING CHANNELS	SAIKUMAR TARA
16:20	16:30	1043	IDENTIFICATION OF FOUR SIGNATURE GENES OF BREAST CANCER BY EXPLORING RNA-SEQ DATA USING ENSEMBLE TECHNIQUE	PRIYASI MALLICK , NILABHRA SAHA, INDRAJIT SAHA

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
16:30	16:40	**1047**	SHIELD: THE VEILGUARD FRAMEWORK FOR AI-POWERED, OFFLINE WOMEN SAFETY	N DEEPA, T, KRISHNAKAARTHIK, S CHANDRIKA GANDHI, P RITHIKA
16:40	16:50	**1095**	A SMARTPHONE-BASED INSIGHTS CAMPUS NAVIGATION SYSTEM USING QUICK RESPONSE CODE	BINOY DAS, PINKI MALAKAR, BIBHASH SEN, JAYANTA PAL
16:50	17:00	**1098**	A LIGHTWEIGHT ATTENTION-BASED CNN MODEL WITH WEB AND MOBILE APPLICATIONS FOR EARLY TOMATO LEAF DISEASE PREDICTION ON LOW-END DEVICES	B LAKSHMI, T N PRABAKAR, R G GOKILA, M RAJAKUMARAN, T DEVIPRIYA, R P PRAVEEN RAJ
17:00	17:10	**11**	INTEGRATING AI WITH DATABASE MANAGEMENT: A NOVEL APPROACH FOR DATA CLEANSING, PREDICTIVE ANALYTICS, AND REAL-TIME DECISION-MAKING	RAJENDRA VARMA KALIDINDI
17:10	17:20	**796**	QUANTUM-ENHANCED MULTI-CLASS CLASSIFICATION OF OPHTHALMIC DISORDERS USING A HYBRID TRANSFER LEARNING APPROACH	DR. SUGANYA DEVI.K

Track 5: Artificial Intelligence, Data Science & Computing – Session I (Part 2) (15:30–17:30)

*Venue: **Lecture Hall 2***

*Chair: **Dr. Shouvik Dey & Dr. Lithungo Murry***

*Student Co-ordinator: **Manas Hembram***

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:30	15:40	**1107**	TRANSFORMER BASED INTELLIGENCE WEB APPLICATION FOR SENTIMENT ANALYSIS	SREYA DHAR, MALLICK PRIYASI , SAHA INDRAJIT
15:40	15:50	**1011**	REFINING TOKENIZATION METHODS TO ADVANCE LOW-RESOURCE MANIPURI SPEECH RECOGNITION	PANGSATABAM HOOMEXSUN, HEISNAM SURSITA DEVI, MICHAEL TONGBRAM, YAMBEM JINA CHANU
15:50	16:00	**116**	DIFFERENTIATION AMONG CORONAVIRUS, PNEUMONIA TUBERCULOSIS AND NORMAL CHEST WITH CONVOLUTIONAL NEURAL NETWORK	GOUTAM SARKER
16:00	16:10	**122**	PERFORMANCE ANALYSIS OF MULTI-LABEL CLASSIFICATION TECHNIQUES FOR PERSONALITY TRAIT IDENTIFICATION	HIMTHANI PUNEET, CHAWLA MEENU, NAMITA TIWARI

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
16:10	16:20	**1023**	TOWARDS TRUSTWORTHY IOT: A MODULAR EXPLAINABLE AI APPROACH FOR REAL-TIME ANOMALY DETECTION AT THE EDGE	NEHA RATHI, VIJAYA SHANDILYA
16:20	16:30	**166**	COMPARATIVE ANALYSIS OF TRANSFORMER AND COMPUTER VISION BASED MODELS FOR WINDOWS MALWARE DETECTION	P PREMNATH P ASHWATH, DR. SHYMALA GOWRI S
16:30	16:40	**176**	AI-DRIVEN CROP DISEASE PREDICTION USING GAS SENSORS AND IOT: A SMART FARMING APPROACH	KC NITHYASREE
16:40	16:50	**177**	AI-DRIVEN CROP DISEASE DETECTION USING HYPERSPECTRAL IMAGING AND EDGE COMPUTING: A PRECISION AGRICULTURE APPROACH	KC NITHYASREE
16:50	17:00	**208**	VOICE BASED EMAIL SYSTEM FOR WINDOWS OS USING ML	SHREEYA VANJARI MASTIER PRANITHA, KONDRA
17:00	17:10	**218**	DRIVEN VIDEO SUMMARIZATION WITH TRANSFORMER MODEL	K TEJASWI
17:10	17:20	**991**	DEEP LEARNING EMBEDDING WITH CLASSICAL MACHINE LEARNING FOR ACCURATE SKIN DISEASE DETECTION	INDER DEV SINGH
17:20	17:30	**453**	LOW-COST SMART SYSTEM FOR ADULTERATION DETECTION IN POWDERED TURMERIC	V. SEVITA NAIDU

Track 1: Communication and Networking – Session I (15:30–17:10)

Venue: **Lecture Hall 3**

Chair: **Prof. Fazal A. Talukdar& Dr. Madhusudan Singh**

Student Co-ordinator: **Vamsi Krishna Badugu**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:30	15:40	**1005**	EFFICIENT QUANTUM-RESISTANT IMAGE ENCRYPTION USING BIT-PLANE INTERLEAVED CHAOTIC SCRAMBLING AND NTRUENCRYPT	BADITHALA VENKATA SATHISH, DR. ROJI CHANU PALUNGBAM
15:40	15:50	**1014**	HYBRID MEDICAL IMAGE COMPRESSION–ENCRYPTION SCHEME USING ENHANCED LZMA	KHOIROM MOTILAL SINGH, SHASHWAT KUMAR, LAIPHRAKPAM DOLENDRO SINGH

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:50	16:00	**1046**	INTRAVENOUS FLUID MONITORING AND SMS ALERTING	GOWTHAMI BHUPATHI, PUSHPA THAMBOOR
16:00	16:10	**1048**	OPTIMIZED NODE DEPLOYMENT IN WIRELESS SENSOR NETWORKS THROUGH BAT-INSPIRED METAHEURISTICS METHOD	ANISH KUMAR VISHWAKARMA, RAHUL PRIYADARSHI , RAJNISH KUMAR, AMARANA PRABHAKARA RAO, DEVANSHI JAIN , SHIVANG MANGAL
16:10	16:20	**1053**	SPECTRUM ALLOCATION IN COGNITIVE RADIO NETWORKS USING BIO-INSPIRED METAHEURISTIC ALGORITHMS	DR. WANGJAM SINGH, SWASTIKA TIKADER
16:20	16:30	**1054**	PERFORMANCE ANALYSIS OF TS/PS PROTOCOL BASED COOPERATIVE COGNITIVE RADIO SENSOR NETWORK WITH IMPERFECT CSI	BANANI TALUKDAR , DEEPAK KUMAR, WASIM ARIF
16:30	16:40	**1096**	TCBIGM: TRIPLET ATTENTION-BASED GLOBAL DESCRIPTOR FOR CLOUD INTRUSION DETECTION	NAOREM NALINI DEVI, KHUNDRAKPAM JOHNSON SINGH
16:40	16:50	**113**	PERFORMANCE REVIEW OF WIRELESS OPTICAL COMMUNICATION SYSTEMS AND ITS APPLICATIONS IN INTERNET OF THINGS	DR. GAURAV SONI
16:50	17:00	**114**	PERFORMANCE ANALYSIS OF QUANTUM COMPUTING SECURITY MECHANISMS IN FREE SPACE OPTICS (FSO) COMMUNICATION LINK	DR. GAURAV SONI
17:00	17:10	**1054**	PERFORMANCE ANALYSIS OF TS/PS PROTOCOL BASED COOPERATIVE COGNITIVE RADIO SENSOR NETWORK WITH IMPERFECT CSI	DR. WASIM ARIF

Track 4: Micro/Nanoelectronics Devices and Circuits – Session I (15:30–17:30)

Venue: **Lecture Hall 4**

Chair: **Dr. Jyoti Prasad Borah& Dr. Naorem Khelchand Singh**

Student Co-ordinator: **Lanusubo Walling**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:30	15:40	**1007**	APPLICATIONS OF CMOS BASED AMPLIFIER FOR DIFFERENT VLSI CIRCUITS	SANJEET KUMAR SINHA , SWETA CHANDER

15:40	15:50	**1074**	POWER-DELAY EFFICIENT TRIPLE DYNAMIC NODE FLIP-FLOP	S REKHA,MILIND MARATHE ANUVRAT, RAMESH EDIGA
15:50	16:00	**1088**	OPTIMIZED HIGH-SPEED DYNAMIC COMPARATOR IN 45NM CMOS USING POWER GATING TECHNOLOGY	SHARMA PUNYA, MAHESH KUMAR SINGH
16:00	16:10	**1090**	IMPROVED RESPONSIVITY VIA ANNEALING OF WO_3/IN_2O_3 NANOCLUSTER SYNTHESIZED BY GLAD	RAJSHREE RAJKUMARI
16:10	16:20	**1091**	AN APPROXIMATE MULTIPLIER WITH ERROR COMPENSATION AND CLOCK GATING FOR POWER OPTIMIZATION	, PURNIMA SHARMA , DHARMENDRAK JHARIYA
16:20	16:30	**383**	INVESTIGATING FREQUENCY RESPONSE OF RING OSCILLATORS WITH VARYING STAGES USING GPDK90 TECHNOLOGY	YASHOVARDHAN GAIKWAD, PARTH SHETIYA, SESHADRI, SRILAKSHMI, ARJUN RAO, SANNAKASHAPPAN AVAR BASAVARAJ, SENTHIL KUMAR,
16:30	16:40	**386**	LOW-POWER CLOCK AND POWER GATED MAC ARCHITECTURE FOR MATRIX COMPUTATION ON FPGA SYSTOLIC ARRAYS	ABHISHEK TRIPATHI, G SAKTHI
16:40	16:50	**533**	LOW POWER MRL-BASED DIGITAL MAGNITUDE SQUARER CIRCUIT DESIGN	GOURANGA MANDAL, ABU KASIM, AYUSH KUMAR, MOURINA GHOSH, PULAK MONDAL
16:50	17:00	**611**	FERROELECTRIC-ENHANCED VERTICAL TFET WITH HETERO-MATERIAL SOURCE FOR IMPROVED SUB-60 MV/DECADE OPERATION	BHARALI SWAPNA, BIJIT CHOUDHURI, BRINDA BHOWMICK, LACHIT DUTTA
17:00	17:10	**673**	IMPACT OF SPACER ON TRANSPORT PROPERTIES OF LATTICE MATCHED III-NITRIDE/B-GA2O3 HEMT	G PURNACHANDRARAO, SARITHA BANALA, KUMAR NITISH, KAR PADMAKSHYA, LENKA TRUPTI RANJAN, NGUYEN HIEU PHAM TRUNG
17:10	17:20	**534**	MEMRISTOR-BASED COUPLED OSCILLATORS FOR CENTRAL PATTERN GENERATOR: A NEUROMORPHIC HARDWARE APPROACH	GOURANGA MANDAL
17:20	17:30	**1000**	THICK OR ULTRA-THIN FILMS? GATE OXIDE SCALING TRADE-OFFS IN HFO2 MOSFETS	STACY ANASTACIA LYNRAH

Track 8: Power Electronics and Drives – Session I (15:30–17:20)

Venue: **Lecture Hall 5**

Chair: **Dr. Swaraj Banerjee & Dr. Daijiry Narzary**

Student Co-ordinator: **Behelo**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:30	15:40	**1002**	DESIGN AND DEVELOPMENT OF SOLAR POWERED ELECTRIC VEHICLE CHARGER	ADHAU SARALA, CHAUDHARI MADHURI, PALANDURKAR MANJUSHA
15:40	15:50	**1027**	MODELING AND SIMULATION OF HALF BRIDGE LCC-S RESONANT CONVERTER FOR WIRELESS POWER TRANSFER IN ELECTRIC VEHICLE CHARGING APPLICATION	SARVAIYA HARSHA, MULEY, SHUBHADA
15:50	16:00	**1050**	RESONANT FREQUENCY ESTIMATION FOR INDUCTION HEATING APPLICATION	RAM, BISHESH , RANI KIRLAMPALLI HARIJA VISHWANATHAN NETI
16:00	16:10	**1063**	SYNERGISTIC NON-ISOLATED ULTRA-GAIN DC–DC CONVERTER WITH COUPLED INDUCTION AND VOLTAGE MULTIPLICATION FOR HIGH-EFFICIENCY EV CHARGING	A S KAMARAJA , R ABINESH, N ABHISHEK NAYKAR , KARTHIK KUMAR K;
16:10	16:20	**286**	EFFECT OF CR ON THE PERFORMANCE AND EMISSIONS OF A DIESEL ENGINE POWERED WITH TAMARIND SEED OIL BIODIESEL	EBINEZARU GOLLAMUDI, V SIVAPRASAD M RAJAKUMARI, G ARUNA, B RAJESWARI, V G S ABISHIKTH
16:20	16:30	**310**	SIMULATION ANALYSIS OF HIGH-GAIN BOOST CONVERTER BY MATLAB/SIMULINK	VINOD SHRIVASTAVA, , ANURAG UPADHYAY, ANITA RANA, ASTHANA PRIYANKA, AYUSHI GUPTA
16:30	16:40	**373**	MITIGATION OF POWER QUALITY ISSUES USING UNIFIED POWER QUALITY CONDITIONER (UPQC) UNDER NONLINEAR LOADS	S MUTHULAKSHMI, R SRI DHARSHINI, T JEROLIN, M VEERALAKSHMI
16:40	16:50	**426**	THREE-LOAD SERIES RESONANT INVERTER CONFIGURATION FOR INDUCTION COOKING APPLICATION	HARIJA RANI KIRLAMPALLI , VISHWANATHAN NETI

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
16:50	17:00	**451**	A RELIABILITY-CENTERED FRAMEWORK FOR MAINTAINABILITY ANALYSIS OF ELECTRIC VEHICLES	BIPUL TALUKDAR, PALLAVI ROY
17:00	17:10	**687**	ARTIFICIAL PROTOZOA OPTIMIZATION BASED HIGH PERFORMANCE PI CONTROL FOR BLDC MOTOR DRIVEN EV APPLICATION	SHAIK SAMIULLA, RACHANANJALI, KUNAMNENI
17:10	17:20	**1104**	COMPARATIVE STUDY OF DC-DC CONVERTERS IN WIND ENERGY CONVERSION SYSTEMS	RAJDIP DEY

Track 6: Software Engineering – Session I (15:30–17:10)

Venue: *Lecture Hall 6*

Chair: **Prof. Dr. Dilwar Hussain Mazumder & Dr. Sreejith**

Student Co-ordinator: **Sampatirao Nanibabu**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:30	15:40	**194**	AI-DRIVEN SEMANTIC SEGMENTATION OF URBAN STRUCTURES IN CLOUD-BASED GEOSPATIAL PLATFORMS	SAI KIRAN MEDA
15:40	15:50	**626**	NOVEL OPTIMAL PERSPECTIVES BASED ALGORITHM	DR LENIN KANAGASABAI
15:50	16:00	**999**	NOVEL FOLLOWER'S UNIQUE CONNECTION WITH LEADER BASED OPTIMIZATION ALGORITHM	DR LENIN KANAGASABAI

07 November 2025 - Day 2

TIME	PROGRAM
09:00–10:00	KEYNOTE 3 – DR. PRASHANT MISRA (NISE DIRECTOR)
10:00–11:40	SESSION II (AM) – TECHNICAL PAPERS
12:00–13:00	KEYNOTE 4 – DR. MARIAPPAN V.
13:00–14:00	LUNCH BREAK
14:00–15:40	SESSION II (PM) – TECHNICAL PAPERS
15:40–16:30	WOMEN IN ENGINEERING (WIE)
16:30–17:30	YOUNG PROFESSIONALS (YP)

Track 5: Artificial Intelligence, Data Science & Computing – Session II (AM) (Part 1) (10:00–11:40)

Venue: *Lecture Hall 1*

Chair: **Dr. Sujata Dash & Dr. H. Rohen Singh**

Student Co-ordinator: **Shyam Sunder Jannu Soloman**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
10:00	10:10	220	ESG-DRIVEN PORTFOLIO OPTIMIZATION USING SENTIMENT ANALYSIS AND FINANCIAL DATA	GAJENDRAN, SUDHAKARAN, ROHAN MATHUR, ARYAN BHOLA, ARJUN RAMASWAMY, OM KUMAR C U.
10:10	10:20	222	SOIL DETECTION AND CROP RECOMMENDATION USING CONVOLUTIONAL NEURAL NETWORKS	NITHIYA BASKARAN, AURCHANA P, KOTHAKONDA MANASA, B JOGESWARA RAO
10:20	10:30	227	CLASSIFICATION OF HEALTHY AND DISEASED BANANA LEAVES USING TRANSFORMER BASED HYBRID APPROACH	JONALEE , KAKATI BARMAN, KASHYAP DAS, TAPASHI
10:30	10:40	248	REAL-TIME SENTIMENT ANALYSIS ON YOUTUBE COMMENTS USING AN ENSEMBLE OF TRANSFORMER MODELS	G SUGANESHWARI , SAAHITH SAJITH, N P PRERNA , BLESSY MARIA MATHEW, A SUDHA
10:40	10:50	280	AUTOMATIC STEEL SURFACE DEFECTS CLASSIFICATION USING LIGHTWEIGHT MOBILENETV2 AND LGBM	BHYRAPUNENI, SRIKANTH, B. NAGARAJU; P.V SUBBAREDDY, B V SAI MOUNIKA, K

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
				VIJAYA CHANDRA, M RAJA KUMAR
10:50	11:00	281	MULTI-CLASS INDOOR OBJECT DETECTION USING OPTIMIZED CONVOLUTIONAL ARCHITECTURE ON HOME OBJECTS-3K DATASET	D, JANARDHAN REDDY, G. SRIDEVI; P. RAMALINGAMMA, G. VIJAY KIRAN; M. MADHAVA REDDY; B. SURESH KUMAR
11:00	11:10	285	AI-DRIVEN MENTAL HEALTH FORECASTING IN ORGANIZATIONS: A COMPREHENSIVE STUDY WITH ENSEMBLE LEARNING AND GNNS	A. SURESH, SKUND AGARWAL.
11:10	11:20	433	REAL-TIME TRAFFIC MANAGEMENT SYSTEM USING MASK R-CNN AND DYNAMIC SCHEDULING ALGORITHM	DR. CH NAGESH; KATTA KANCHANA, NAVANATH SAHARIA.
11:20	11:30	414	IMPROVING PARKINSON'S DISEASE DETECTION FROM GAIT PATTERNS BY INTEGRATING VISION TRANSFORMER AND CONVOLUTIONAL NEURAL NETWORK	KABITA PHUKAN, PRANJIT DAS
11:30	11:40	486	INGRE: HEALTH ADVISOR	DOLENDRO LAIPHRAKPAM , ANISH RAJ, AMLAN MAHAPATRA, UJJAL KUMAR, YASH RAJ, DEBBROTA PAUL CHOWDHURY

Track 5: Artificial Intelligence, Data Science & Computing – Session II (AM) (Part 2) (10:00–11:40)				
Venue: *Lecture Hall 2*				
Chair: **Dr. R. Kumar & Dr. J Arun Valan**				
Student Co-ordinator: **Mritunjay kumar**				
FROM	**TO**	**PAPER ID**	**PAPER TITLE**	**AUTHORS**
10:00	10:10	346	IMAGE-BASED SUGARCANE DISEASE DETECTION PLATFORM	PARTH NAIK, SRUSHTI JADHAV, JYOTI DEONE.
10:10	10:20	420	AN INTRA-CAMPUS VEHICLE TRACKING SYSTEM USING YOLOV5 AND PP-OCR	SUDIPTA ROY, PREETODEEP DEV, TRISHNA DEVI, SRIJAN CHOUDHURY.

10:20	10:30	**421**	MACHINE LEARNING BASED STOCK TRADING STRATEGIES USING SIMPLE MOVING AVERAGE WITH AVERAGE TRADED VOLUME CROSSOVER CONFIRMATION	ARUP KADIA
10:30	10:40	**423**	SMART AGENTS FOR QUERYING: A MULTIMODAL APPROACH TO NATURAL LANGUAGE QUERYING OF DIVERSE DATA SOURCES	R DHANYA, N VIJAYAN, R RANJANI
10:40	10:50	**353**	A DEEP HYBRID NEURAL ARCHITECTURE WITH ATTENTION AND GATED FUSION FOR PREDICTING STROKE RISK FROM CLINICAL SYMPTOMS	JOSEPH JEENA
10:50	11:00	**465**	NOVEL CREATING AN OPTIMAL ARBORETUM BASED ALGORITHM	DR. LENIN KANAGASABAI
11:00	11:10	**470**	ENHANCING RARE MEDICAL IMAGE DATASETS USING DEEP CONDITIONAL GENERATIVE NETWORKS	N RENJITH, AMAN BRAHMA, G SUDHAKARAN
11:10	11:20	**358**	ENHANCING SVM PERFORMANCE USING CNN FEATURES ON HISTOPATHOLOGICAL COLON IMAGES	DR. SASHIKANTA PRUSTY, SUSHREE GAYATRI PRIYADARSINI PRUSTY, PROF. NARAYAN PATRA, ADYASHA RATH, PRIYADARSINI SUSHREE BIBHUPRADA.
11:20	11:30	**499**	LEVERAGING PRETRAINED DEEP NEURAL NETWORKS FOR LUNG CANCER DETECTION	MALEMPATI, HARSHITHA, S SRINIVASULU RAJU, T NIRANJAN, Y SUJAN
11:30	11:40	**514**	COGNITIVELY ALIGNED FEATURE-AWARE CLASSIFICATION SYSTEM (CAFACS): A LIGHTWEIGHT AND INTERPRETABLE FRAMEWORK FOR FOREST COVER TYPE PREDICTION	ROSHNI RAJENDRAN

Track 1: Communication and Networking – Session II (AM) (10:00–11:40)

Venue: **Lecture Hall 3**

Chair: **Dr. Wasim Arif & Dr. Gunjan Thakur**

Student Co-ordinator: **Sampatirao Nanibabu**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
10:00	10:10	**272**	SELFISH NODE DETECTION WITH SARSA ALGORITHM FOR WIRELESS SENSOR NETWORK	POLUKONDA RAVIKUMAR, M V GANESH
10:10	10:20	**309**	B-DNA STRANDS AS A SPIN SYSTEM FOR MOLECULAR COMMUNICATION ON THE BASIS OF STATISTICAL SIGNAL PROCESSING NETWRORK	SUBHAMOY SINGHA ROY, SPANDAN KARFA, ROHIT BANERJEE , SAMBHAB ROOJ
10:20	10:30	**416**	REAL-TIME ENVIRONMENTAL AND ACTIVITY TRACKING VIA EMBEDDED SYSTEMS AND CLOUD-BASED VISUALIZATION: A DUAL-MODE APPROACH	K ANANDHAN, YARRAMASU SINDHUJA, M GURU PRASHANTH
10:30	10:40	**493**	ENHANCING NETWORK SECURITY BY INTEGRATING MACHINE LEARNING ALGORITHMS WITH FIREWALL SYSTEMS TO DETECT CYBER ATTACKS	S VEERAMANI, S, A HARI KUMAR
10:40	10:50	**496**	COPYRIGHT PROTECTION FOR IMAGES USING NON-EXPANDING AND NON-DEGRADING VISUAL CRYPTOGRAPHY	DOLENDRO LAIPHRAKPAM, HRISHITA PAUL, ARMAAN CHAUDHARY, MOTILAL KHOIROM
10:50	11:00	**521**	GRID-BASED CIRCULAR RING MIMO ANTENNA FOR FUTURE WIRELESS APPLICATIONS	MAMANI JYOTHIRMAI, MOHEBBA NAAZ
11:00	11:10	**563**	AMLRP-N: A NOVEL HYBRID ML AND REINFORCEMENT LEARNING FRAMEWORK FOR ENERGY-EFFICIENT ROUTING IN WSNS	NAGARAJU BAYDETI, MANDALA SURESH KUMAR, SHAKILA BASKARAN
11:10	11:20	**629**	AN ADAPTIVE FUZZY LOGIC-BASED ROUTING PROTOCOL FOR QOS OPTIMIZATION IN WIRELESS BODY SENSOR NETWORKS	R RADHA, P ANANDHA PRAKASH
11:20	11:30	**710**	WI-FI CONTROLLED SMART BOAT	GORRE NARSIMHULU, VADLA NIHARIKA, SHAIK NASEER UDDIN BABA, KOYALKAR RAJASRI
11:30	11:40	**735**	MACHINE LEARNING TECHNIQUES FOR OPTIMIZING ENERGY USE IN IOT: A EMPIRICAL REVIEW	PALLAVI CHARDE LONKAR

Track 10: Humanitarian Technology & Engineering Education – Session II (AM) (10:00–11:40)

*Venue: **Lecture Hall 4***

*Chair: **Dr. Pankaj Kumar & Dr. Bappi Paul***

*Student Co-ordinator: **Lanusubo Walling***

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
10:00	10:10	**476**	ENHANCING COMPUTER SCIENCE EDUCATION THROUGH OUTCOME-BASED TEACHING AND LEARNING: AN INDIAN PERSPECTIVE	PULIGUNDLA NEELAKANTAN
10:10	10:20	**580**	ENHANCING CONTEXTUAL CAPTIONING THROUGH DEEP ENSEMBLE LEARNING OF VISUAL–TEXTUAL FEATURES	SIVA KUMAR, DR.U GANESH NAIDU, V.S SARANYA, SARIPALLE SURYANARAYANAR AJU; DR. GANIYA RAJENDRA KUMAR ; MUQTHADAR ALI SYED, BURRA KRISHNA PRIYA
10:20	10:30	**604**	SMARTPATH: A DUAL-TECHNOLOGY WEARABLE NAVIGATION SOLUTION FOR THE BLIND USING RFID AND QR CODES	S SARAVANAN, NAGAMALLA PRIYANKA, RATHLAVATH CHANDRAKALA, RAMAVATH MUNEESHWAR
10:30	10:40	**605**	DESIGN OF AN INTELLIGENT AUTONOMOUS AND MANUALLY OPERATED AGRICULTURAL ROVER WITH AUTOMATED NAVIGATION, PRECISION WATERING, AND REAL-TIME MONITORING	S SARAVANAN, YENNAM RAKESH, V VAMSHI, S HARSHA VARDHAN REDDY, M KALAIYARASI
10:40	10:50	**664**	DUAL CLEAN BOT: AN IOT-BASED AUTONOMOUS VACUUM AND MOPPING ROBOT	S SARAVANAN, KSHATRI, SAINADH SINGH; N AASHISH BHARADWAJ, S VIVEK VARMA, J SATHVI, MD KHAJA FARMAN
10:50	11:00	**790**	DESIGN AND IMPLEMENTATION OF A DEEP LEARNING-BASED ASSISTIVE SYSTEM FOR VISUALLY IMPAIRED PEOPLE	KAPADNIS JAGDISH, JAGTAP MAHENDRA, BORASE JYOTSNA, JYOTI PAWAR, AKSHAY JAIN, PIYUSH KULKARNI
11:00	11:10	**828**	AN AUTONOMOUS DRONE FOR PLANT DISEASE SURVEILLANCE USING CNN MODEL	P NANDHA KUMAR, I PRABHAKARAN SAMSON, R NARMADHA

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
11:10	11:20	**929**	BADMINTON MATCH ANALYSIS ALONG WITH PLAYERS AND SHUTTLECOCK DETECTION USING HYBRID CNN.	K ANAND SINGHA, MD AZIZ ALI, SHEIKH AHMADULLAH, PALLAB DEBNATH, TAPODHIR ACHARJEE

Track : Intelligent Computing, Electronics Systems and Hybrid & Smart Microgrids – Session II (AM) (10:00–11:40)

*Venue: **Lecture Hall 5***

*Chair: **Dr. PremPrakash Mishra & Dr. D. Ganga***

*Student Co-ordinator: **T Chonbenthung Odyuo***

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
10:00	10:10	**1080**	MASKING IN MAMMOGRAMS FOR BREAST TUMORS DETECTION USING CNN	ANKIT MEHTO, PRITAJ YADAV
10:10	10:20	**1114**	RENEWABLE ENERGY FORECASTING USING OPTIMIZATION BACKED CONV-LSTM MODEL	JARIN T
10:20	10:30	**1115**	RESIDENTIAL BUILDING HVAC LOAD ENERGY MANAGEMENT USING REINFORCED LEARNING AND SOFT ACTOR-CRITIC ALGORITHM	PAMPANA SURYA KAMARAJU BABU, PRAKASH MARIMUTHU, SHAKILA BASKARAN, RAKESH KUMAR
10:30	10:40	**1116**	ELECTRICITY LOAD FORECASTING IN PANAMA CITY USING MACHINE LEARNING METHODS	RAKESH KUMAR, POOJA BORA, SHAKILA BASKARAN, PRAKASH MARIMUTHU
10:40	10:50	**1117**	POTENTIAL AND TECHNO-ECONOMIC FEASIBILITY OF FSPV SYSTEMS ON DIFFERENT WATER BODIES OF KASHMIR	ASADUR RAHMAN, UZMA RAMZAN, SHEIKH JAVED IQBAL
10:50	11:00	**1118**	NEXT-GENERATION DATA CONVERTER CIRCUITS WITH AI INTEGRATION	BUDDHI SHARMA
11:00	11:10	**1120**	GLOSSFORMER++: A TEMPORAL TRANSFORMER FOR SIGN LANGUAGE	NISHANT KUMAR, YASH KUMAR, SACHIN MAHALA,

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
			UNDERSTANDING USING 3D HAND LANDMARKS	NAKUL SINGH SHEKHAWAT, KARTIK SHARMA, HITESH KUMAR
11:10	11:20	**905**	A SUSTAINABLE ON-BOARD CHARGING APPROACH FOR EMERGING ELECTRIC MOBILITY SOLUTIONS	GAURAV SHARMA, ANURAG PANDEY, BHUVNESH KUMAR GUPTA, ARPIT BISHT, SAIBAL MANNA, VIVEK SAXENA
11:20	11:30	**908**	MACHINE LEARNING BASED OPTIMIZATION OF INVERTER SIZING FOR 5KW PV SYSTEMS IN VARYING OPERATING CONDITION	NISHANT KUMAR, , RANJAN, NAMRATA ASHISH, KUMARI, RUMIT TIWARI
11:30	11:40	**916**	INNOVATIVE MULTI-STAGE CHARGING PARADIGM FOR ENHANCED PERFORMANCE OF TWO-WHEELED ELECTRIC VEHICLE	BHUPENDER SHARMA, VIVEK KUMAR YADAV, SAIBAL MANNA, DHRUV KUMAR, VIVEK SAXENA, DEVANSH GUPTA

Track 7: Power System and Smart Grid – Session II (AM) (10:00–11:40)				
Venue: *Lecture Hall 6*				
Chair: **Dr. Dipu Sarkar& Dr. Asadur Rahman**				
Student Co-ordinator: **Etesola**				
FROM	**TO**	**PAPER ID**	**PAPER TITLE**	**AUTHORS**
10:00	10:10	**1013**	REAL-TIME IMPLEMENTATION OF CENTRALIZED ENERGY MANAGEMENT SYSTEM FOR RADIAL MICROGRID	RUPAL HUKAMPAL, PREMALATA JENA, DUSHYANT SINGH
10:10	10:20	**1102**	ECONOMIC EVALUATION OF A HYBRID PV-FUEL CELLBATTERY SYSTEM FOR LOW-POWER HOME APPLICATIONS USING HOMER PRO	GUNDA SAI CHARAN RAJ, P S KULKARNI, DIGAMBAR BHISE, SOUMYADEEP GHOSH, AADITYA RUDRA, TABITHA SNEHA,
10:20	10:30	**497**	DECENTRALIZED ENERGY EXCHANGE: A BLOCKCHAIN-BASED PEER-TO-PEER TRADING FRAMEWORK FOR MICROGRIDS WITH BATTERY STORAGE	USHA VARADA, PATNANA, NARESH

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
10:30	10:40	**57**	ROBUST AND INTERPRETABLE MACHINE LEARNING FRAMEWORK FOR SMART GRID STABILITY PREDICTION USING ENSEMBLE MODELS	VISHAAL SARAVANAKUMAR, S, SENTHILKUMAR, J JEBA; SRE RAMAN A
10:40	10:50	**711**	LOAD MANAGEMENT IN SMART GRID USING WHALE OPTIMIZATION ALGORITHM	SARDA KHANAL, ANIRBAN SENGUPTA,
10:50	11:00	**822**	ENHANCEMENT OF HYBRID PV-WIND SYSTEM MODEL STABILITY BY THE USE OF SUPERCAPACITOR	BINDU PRIYA
11:00	11:10	**325**	COMPARATIVE INVESTIGATION OF MAGNETIC MATERIALS FOR HIGH TORQUE DENSITY SRM IN ELECTRIFIED TRANSPORTATION SYSTEMS	BOYANASETTI VENKATA SAI THRINATH

Track 3: RF, Microwave and mmWave – Session II (AM) (10:00–11:40)

Venue: *Lecture Hall 7*

Chair: *Dr. Trigunesh Narzary & Dr. Suresh Babu*

Student Co-ordinator: *Sourav*

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
10:00	10:10	**1012**	TRIPLE-BAND FILTERING ANTENNA DESIGN ON A SINGLE LAYER SUBSTRATE	ASHIMAKAPLESH, CHANDRA PRASAD, SAURABH KUMAR
10:10	10:20	**211**	MINIATURIZED ANTENNA WITH CSRR-DEFECTED GROUND STRUCTURE FOR IOT APPLICATIONS	NISHANT KUMAR , RASHMI SINHA
10:20	10:30	**278**	RECONFIGURABLE DUAL-LOOP FREQUENCY SELECTIVE RASORBER WITH SWITCH-TUNABLE FUNCTIONALITY	POOJA PRAKASH, BIDISHA DASGUPTA, MARADA SHAMITA
10:30	10:40	**37**	A COMPACT BIO-INSPIRED MIMO ANTENNA FOR X-/KU-BAND EDGE APPLICATIONS	KISHORE DAS, BIDISHA DASGUPTA
10:40	10:50	**467**	SIMULATION-BASED STUDY OF A TILTED 1×8 MICROSTRIP ANTENNA ARRAY IN THE X-BAND	P DR.P.JOTHILAKSHMI, R MOHANASUNDARA M
10:50	11:00	**501**	LOW-PROFILE MICROSTRIP PATCH ANTENNA WITH OPTIMIZED GROUND STRUCTURE FOR EFFICIENT X-BAND DOWNLINK SYSTEMS	MUHAMMAD FADIL S, S, NIRANJAN, MUSTI MANIKANTA KAUSHIK

				HARIKRISHNA, M VINOTH, SHEEBA, I.REXILINE

Track 5: Artificial Intelligence, Data Science & Computing – Session II (PM) (Part 1) (14:00–15:40)

Venue: **Lecture Hall 1**

Chair: **Dr. Partha Pakray & Dr. Prasanna Lakshmi**

Student Co-ordinator: **Behilo**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
14:00	14:10	**58**	REAL-TIME DRIVER DROWSINESS DETECTION FOR ROAD SAFETY USING HYBRID YOLOV8 AND CNN APPROACH	VICTOR VASANTH, MADANA, T KISHORE KUMAR
14:10	14:20	**586**	SCENEAWARE-FOD: DUAL-STREAM FUSION FOR CONTEXT-DRIVEN FOREIGN OBJECT DETECTION	K, SUGANTHI, MANICKA PRABHA
14:20	14:30	**646**	VISION TRANSFORMERS -POWERED FRAMEWORK FOR AUTOMATED VIOLENT ACTIVITY DETECTION IN SMART SURVEILLANCE SYSTEMS	ANURADHA P
14:30	14:40	**671**	KNOWLEDGE-GUIDED NESTED DEEP LEARNING FRAMEWORK FOR EXPLAINABLE EMBRYO VIABILITY ASSESSMENT IN ASSISTED REPRODUCTIVE TECHNOLOGIES	APURBA NANDI, SHAONI BANERJEE, ADARSH GIRI, GIRI, YASH KUMAR; SANGITA DUTTA, ARIJEET GHOSH
14:40	14:50	**685**	A TEMPORAL AND FEATURE-AWARE DEEP LEARNING FRAMEWORK FOR STOCK MARKET TREND FORECASTING	PRANEETH REDDY ANNAPUREDDY, ABHIJEET CHANDRA
14:50	15:00	**694**	EFFICIENT DATA DEDUPLICATION FRAMEWORK FOR SCALABLE NOSQL CLOUD STORAGE SYSTEMS	RAVNEET KAUR, SIMERJEET KAUR,
15:00	15:10	**715**	EXPLAINABLE DEEP LEARNING FRAMEWORK FOR LUNG CANCER DIAGNOSIS FROM WHOLE-SLIDE IMAGES	BIDYUT DAS, SUMANA MONDAL, SAMARTHITA SASMAL, BASUDEV SAHA
15:10	15:20	**725**	MACHINE LEARNING FOR EARLY DETECTION AND RISK STRATIFICATION OF CHRONIC KIDNEY DISEASE	DIVYA MISHRA
15:20	15:30	**73**	COMPUTER VISION-POWERED INTELLIGENT TRAFFIC MANAGEMENT SYSTEM FOR	KARTHIKEYAN , JYOTHSNA SUNIL, KRISHNA A T, NEHA

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
			AMBULANCE ROUTING USING YOLO AND IOT INTEGRATION	DILEEP, DR. ABITHA M A
15:30	15:40	**739**	HYBRID FEATURE SELECTION USING INCEPTIONV3 AND GENETIC ALGORITHM FOR ATTENTION-CNN RICE PEST DETECTION IN MIZORAM	ZAITINKHUMA THIHLUM, V.D AMBETH KUMAR

Track 5: Artificial Intelligence, Data Science & Computing – Session III (PM) (Part 2) (14:00–15:40)				
Venue: ***Lecture Hall 2***				
Chair: **Dr. Prince Winston & Dr. Chitrangada Roy**				
Student Co-ordinator: ***Sanchonthung***				
FROM	**TO**	**PAPER ID**	**PAPER TITLE**	**AUTHORS**
14:00	14:10	**8**	HARNESSING LARGE LANGUAGE MODELS FOR RISK ASSESSMENT AND DECISION SUPPORT IN THE BANKING SECTOR	VENKATA SATYA KRISHNA KISHORE PEDDI
14:10	14:20	**821**	VELOCITY-BASED COLLISION DETECTION AND RISK ANALYSIS OF AUTONOMOUS VEHICLES USING CELLULAR AUTOMATA	SARIKA NYARAMNENI, ATUL NEGI
14:20	14:30	**845**	EVOPHYSNET: A PHYSICS-INFORMED EVOLUTIONARY FRAMEWORK FOR SUSTAINABLE AND ROBUST PROSTHETIC DESIGN OPTIMIZATION	VINAY P, SREEDEVI M
14:30	14:40	**856**	DETECTION OF GENAI-GENERATED FACES USING A CUSTOMIZED RESIDUAL NETWORK MODEL	JAYANTI ROUT, MRUTYUNJAYA SATHUA, ASHUTOSH SONI, SURENDRA KUMAR NANDA
14:40	14:50	**858**	MINDCARE : FEDERATED MACHINE LEARNING CHATBOT FOR MENTAL HEALTH DIAGNOSIS	SHREYA CHOPRA, SHREYA DIXIT, SUDHANSHU SHUKLA, SWAPNIL SINGH, AJAY KUMAR SHRIVASTAVA, VIVEK KUMAR SHARMA
14:50	15:00	**859**	UOT-FRCNN: UNDERWATER OBJECT TRACKING USING FASTER R-CNN WITH RESNET-50 FPN ON THE UOT32 DATASET	RAJAT AMAT, MOURINA GHOSH, AMITAVA NAG, ROBIN PATHAK

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:00	15:10	**866**	ASSESSING COGNITIVE LOAD LEVELS VIA TAR-BASED EEG ANALYSIS AND MACHINE LEARNING MODELS	SUPREETI KAMILYA, MD RIYAZ ANSARI, SHAMAMA ANWAR
15:10	15:20	**870**	NEXT-GEN AI: ARCHITECTURAL INSIGHTS INTO LARGE LANGUAGE MODELS	SARAVANAN C SINDHU HEGDE, AFSHA ANJUM
15:20	15:30	**365**	A MINIMALIST AI-ENABLED IOT FRAMEWORK FOR ACCURATE NEXT-HOUR RESIDENTIAL LOAD FORECASTING	M. RAMU
15:30	15:40	**31**	LAWBOT: AN ENHANCED LEGAL INFORMATION RETRIEVAL SYSTEM USING RAG	ANVAYA SOLANKI

Track 1: Communication and Networking – Session III (PM) (14:00–15:40)

Venue: **Lecture Hall 3**

Chair: **Dr. Bijit Choudhuri & Dr. Rajsree**

Student Co-ordinator: **G Vasantharao**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
14:00	14:10	**793**	INTEGRATING MULTI-MODEL FUSION FOR REAL-TIME TRACKING AND PREDICTIVE VISUALIZATION OF PANDEMICS	V. ANJANA DEVI
14:10	14:20	**849**	VLC BASED INDOOR POSITIONING SYSTEM A - HIGH PRECISION LOCALISATION APPROACH	AKANKSHA BASWAPURAM, RAJASEKHAR VEERAMALLA, VIDYA SAGAR POTHARAJU, SWAPNA MYATHARI, RAGHU KODIRIPAKA
14:20	14:30	**882**	A REAL-TIME ANOMALY DETECTION FRAMEWORK FOR ETHEREUM USING RULE-BASED LOGIC, GRAPHSAGE AND CONSENSUS-DRIVEN EVENT PROCESSING	BALIREDDI DURGA ANUJA, DR SUNEETHA ELURI
14:30	14:40	**942**	A LIGHTWEIGHT BLOCKCHAIN–INTEGRATED VANET PROTOTYPE WITH PATH PLANNING AND OPTIMIZED HARDWARE FOR SECURE V2V NETWORKS IN CHALLENGING ENVIRONMENTS	PRIYANSHU PRATEEK, SRUSHTY S M, SUMIT SHUKLA, VASUDHA SINGH
14:40	14:50	**968**	EFFECTIVE REMOTE-CONTROLLED IRRIGATION WITH ARDUINO AND LORA FOR SUSTAINABLE AGRICULTURE	M SAIPRASAD REDDY

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
14:50	15:00	975	PERFORMANCE OF IRS-ASSISTED DF-RELAY HYBRID COOPERATIVE COMMUNICATION NETWORKS	ARPIT YADAV, KOMAL JANGHEL
15:00	15:10	475	ADAPTIVE THRESHOLD-BASED LATENCY OPTIMIZATION FOR REAL-TIME UDP TEXT COMMUNICATION	SINCHANA H S
15:10	15:20	368	A STUDY ON THE INTEGRATION OF INTELLIGENT SYSTEMS IN ADVANCED NETWORKING	VIJAYANAND SELVARAJ
15:20	15:30	268	PERFORMANCE OPTIMIZATION OF IRS-ASSISTED NOMA SYSTEMS USING DEEP LEARNING TECHNIQUES	KATTA KANCHANA, RAMESH CHANDRA MISHRA, NAVANATH SAHARIA, CH NAGESH

Track 4: Micro/Nanoelectronics Devices and Circuits – Session III (PM) (14:00–15:40)

Venue: *Lecture Hall 4*

Chair: *Dr. Debarun Dhar Purkayastha & Dr. Ranjith G. Nair*

Student Co-ordinator: *Rahul Kumar*

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
14:00	14:10	779	TREEFET AND COMBFET ARCHITECTURES FOR SYNAPTIC OPERATION IN NEUROMORPHIC SYSTEMS	B PAVITHARA, PRITHVI P
14:10	14:20	79	NEXT-GENERATION PREDICTIVE MODELS FOR EXPOSING HARDWARE TROJANS AT THE ARCHITECTURAL ABSTRACTION LEVEL USING CONDITIONAL SIGNAL FEATURES	RAMESH S R, KANCHI SREEKRUTHI
14:20	14:30	879	IMPACT OF INTERFACE TRAP CHARGES ON THE PERFORMANCE OF GAUSSIAN DOPED GATE-ALL-AROUND JUNCTIONLESS MOSFET	PRINCY SHARMA
14:30	14:40	911	EFFECT OF NICKEL DEPOSITION ON ECSA AND ELECTROCATALYTIC PROPERTIES OF VERTICALLY ALIGNED FEW LAYERS GRAPHENE SHEETS	ATUL KUMAR
14:40	14:50	936	COMPARATIVE ANALYSIS OF TOP GATE CNTFET AND GATE ALL AROUND CNTFET MAGNITUDE COMPARATOR	GEETHA AMRUTHA MANDALAPU, RUPA KASIREDDY, AMANDEEP SINGH
14:50	15:00	940	SOL-GEL DERIVED ZNO/SNO2 BILAYER HETEROJUNCTIONS FOR SELECTIVE VOC DETECTION	SIVA REDDY VANGA

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:00	15:10	**966**	DESIGN AND HDL IMPLEMENTATION OF A PIPELINED 8-BIT MICROPROCESSOR	CHETAN PYASI, HEIGRUJAM SINGH
15:10	15:20	977	THICKNESS DEPENDENT PERFORMANCE OPTIMIZATION OF LEAD FREE AND LEAD BASED PEROVSKITE SOLAR CELLS USING SCAPS-1D	N RAHUL NAGA SAI, MICHAEL PEDAPUDI
15:20	15:30	981	DIELECTRIC PASSIVATION STRATEGIES FOR ENHANCED PERFORMANCE AND RELIABILITY OF ALGAN/GAN HEMTS	ELLAPU BHANU PRAKASH, ASHOK RAY, DR. SUSHANTA BORDOLOI
15:30	15:40	966	DESIGN AND HDL IMPLEMENTATION OF A PIPELINED 8-BIT MICROPROCESSOR	CHETAN PYASI

Track 8: Power Electronics and Drives – Session III (PM) (14:00–15:40)

*Venue: **Lecture Hall 5***

*Chair: **Dr. Gurukarthik Babu & Dr. Pandiya Rajan***

*Student Co-ordinator: **Chandashree***

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
14:00	14:10	730	WAVELET ENERGY ANALYSIS FOR VOLTAGE SAGS	NIKITA RAWAT, ASHUTOSH DIXIT, PADMANABH THAKUR, NITIN SUNDRIYAL,
14:10	14:20	768	ADAPTIVE FUZZY LOGIC APPROACH FOR DUTY CYCLE CONTROL IN HYBRID ELECTRIC VEHICLES ENERGY MANAGEMENT WITH COMBINED STORAGE	PADAM BHAVANA
14:20	14:30	875	DESIGN AND PERFORMANCE ANALYSIS OF A NON-ISOLATED QUADRATIC BUCK–BOOST CONVERTER FOR RENEWABLE ENERGY SYSTEMS	VENKATA RAMI REDDY SAREDDY, SAILAJA K, KEERTHI P
14:30	14:40	891	NEURAL NETWORK-BASED FAULT DIAGNOSIS OF SEVEN LEVEL INVERTERS	BHAVANI N P G
14:40	14:50	978	EVALUATION AND COMPARISON OF VARIOUS DC TO DC CONVERTERS USED FOR EV CHARGING	VISHAL CHANDRA GOLU, RAHUL KUMAR
14:50	15:00	988	SPEED ESTIMATION OF BLDC MOTOR USING MODIFIED EXTENDED KALMAN FILTER	PRIYANKA S, SRIRANJANI R, JAYALALITHA S

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
15:00	15:10	**993**	COMPARATIVE ANALYSIS OF BUCK CONVERTER USING OPEN LOOP, PI AND FUZZY CONTROL FOR UNCERTAINTY IN PARAMETERS	, PRATISTHA SHARMA, BHARAT BHUSHAN
15:10	15:20	**994**	DESIGN AND ANALYSIS OF WIDE OUTPUT VOLTAGE RANGE LLC RESONANT CONVERTER FOR PHOTOVOLTAIC APPLICATIONS	KRISHNA VELMAJALA, SRINIVASA RAO SANDEPUDI
15:20	15:30	**996**	CONTROL OF A NOVEL NON-ISOLATED SEMI-QUADRATIC BOOST CONVERTER USING DOUBLE ACTIVE SWITCH	AKASH ROY CHOUDHURY, PADMAGIRISAN PARAMASIVAM, PIYUSH KANT, ANINDITA JAMATIA
15:30	15:40	**343**	PSO-OPTIMIZED WIRELESS POWER TRANSFER SYSTEM FOR EFFICIENT DYNAMIC CHARGING OF ELECTRIC VEHICLES	DR. SACHIN KUMAR

Track 3: RF, Microwave and mmWave – Session III (PM) (14:00–15:40)

Venue: **Lecture Hall 6**

Chair: **Dr. Michael Cholines &   Dr. P Ashok**

Student Co-ordinator: **Estesola**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
14:00	14:10	**686**	DUAL-BAND MIMO PATCH ANTENNA FOR INDUSTRIAL IOT APPLICATION	MOHAN RAM R R, NIRAN NIKETHAN J, ANBARASI K, VINOTH M, VARSHA H
14:10	14:20	**81**	SINGLE NEGATIVE METASURFACE FOR 6G-FR3 BAND	KARABI DEKA, DR. BIDISHA DASGUPTA
14:20	14:30	**953**	DESIGN STRATEGIES FOR CPW-INTEGRATED CAPACITIVE SHUNT RF-MEMS SWITCH FOR BROADBAND FR3 OPERATION	HIMANSHU PANWAR DHARIYA ARYA SINGH, MAHESH ANGIRA
14:30	14:40	**970**	X-BAND MIMO ANTENNA EMPLOYING CSRR, SRR STRUCTURES FOR HIGH-PERFORMANCE SHORT-RANGE RADAR APPLICATIONS	NIRANJAN S, REXILINE SHEEBA I, VARSHA H, VINOTH M, MUHAMMAD FADIL S
14:40	14:50	**973**	COMPACT C-BAND MICROSTRIP ANTENNA FOR MARITIME COMMUNICATION	VARSHA H, NIRANJAN S, VINOTH M,

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
				MUHAMMAD FADIL S, MOHAN RAM R R
14:50	15:00	**278**	RECONFIGURABLE DUAL-LOOP FREQUENCY SELECTIVE RASORBER WITH SWITCH-TUNABLE FUNCTIONALITY	POOJA PRAKASH

Track 2: Signal Processing – Session III (PM) (14:00–15:40)

Venue: **Lecture Hall 7**

Chair: **Dr. Manoj Kumar Patel & Dr. Abhishek Srivastav**

Student Co-ordinator: **Maloy Kumar Dey**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
14:00	14:10	**1015**	STUDY OF A MODIFIED U-NET ARCHITECTURE FOR SEGMENTATION OF BRAIN TUMORS FOR 2D MRI IMAGES	JOGENDRA HAOBAM, PALUNGBAM ROJI CHANU
14:10	14:20	**679**	DE-DCGCN-EE : DUAL ENCODER-BASED DYNAMIC-CHANNEL GRAPH CONVOLUTIONAL EDGE ENHANCEMENT NETWORK FOR ACCURATE RETINAL VESSEL SEGMENTATION	SUKUMAR VAMSI MUTYALA, R MURUGAN
14:20	14:30	**1108**	PERFORMANCE COMPARISON OF A TIME-DISTRIBUTED CNN BASED GAITFORMER MODEL FOR HUMAN GAIT PATTERN RECOGNITION IN SURVEILLANCE	BHUKYA SHANKAR, K.V SRIDHAR
14:30	14:40	**217**	A COMPREHENSIVE REVIEW OF DEEP LEARNING APPROACHES FOR AUTOMATIC LICENSE PLATE RECOGNITION	TEJASWI K
14:40	14:50	**291**	FPGA-ACCELERATED VIDEO WATERMARKING USING PYTHON AND VERILOG ON ZYNQ SOC	JAI PRATAP SINGH TOMAR, ABHAY CHATURVEDI
14:50	15:00	**411**	ROBUST PHOTOACOUSTIC TOMOGRAPHY IMAGE RECONSTRUCTION UNDER HIGH INTENSITY NOISE ENVIRONMENTS WITH HYPERPARAMETER SENSITIVITY ANALYSIS	BONDITA PAUL, RUSHA PATRA, AMITAVA CHATTERJEE
15:00	15:10	**932**	ATRIAL FEATURES-BASED CLASSIFICATION OF COVID-19 PATIENTS AND SINUS RHYTHM	ARYA BHARDWAJ

08 November 2025 - Day 3

TIME	PROGRAM
09:00–10:40	SESSION III – TECHNICAL PAPERS
10:40–11:00	TEA BREAK
11:00–12:00	KEYNOTE 5 – PROF. HAKAN PETTERSSON, HALMSTAD UNIVERSITY, SWEDEN (VC HALL)
11:00-12:00	KEYNOTE 6 - DR. PARTHA PAKRAY, NIT SILCHAR (HALL 5)
12:00–13:00	KEYNOTE 7 – DIRECTOR, IIIT DHARWAD
13:00–14:00	LUNCH BREAK
14:00–15:40	SESSION IV – RESERVED (NO PRESENTATIONS)
16:00–17:00	VALEDICTORY SESSION

Track 5: Artificial Intelligence, Data Science & Computing – Session IV (09:00–10:40)

Venue: **Lecture Hall 1**

Chair: **Dr. Rudra Narayan Dash & Dr. Debasis Acharya**

Student Co-ordinator: **Samaniba Imchen**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
09:00	09:10	**878**	LWN-UNET: LIGHTWEIGHT NESTED U-NET FOR WATERBODY AREA SEGMENTATION OF CHEMBARAMPAKKAM LAKE	SARAVANAN S L. T, SENTHIL KUMAR, KALAIYARASI M
09:10	09:20	**883**	FINANCIAL FRAUD DETECTION IN SHOPPING SITES USING GENERATIVE AI	ABINASH TRIPATHY, GANESH MANIKANTA SWAMY VADLAMURI
09:20	09:30	**887**	AN IMPROVED LOAN APPROVAL PREDICTION USING ML TECHNIQUES	VALLAMKONDU PAVAN KUMAR, SWATHY M
09:30	09:40	**898**	AI AND IOMT CONVERGENCE FOR EMERGENCY HEALTHCARE: AADHAAR AUTHENTICATION, SECURE DATA MANAGEMENT, AND AUTOMATED FRACTURE DETECTION	PASUPATHY MADHAVASARMA, SRIDEVI MANI
09:40	09:50	**906**	BEHAVIORAL MODELING FOR INSIDER THREAT DETECTION USING STATISTICAL FEATURES AND SEQUENCE PROFILING	AYSHWARYA JAISWAL, PRAGYA DWIVEDI, KUMAR DEWANG RUPESH
09:50	10:00	**921**	SURAKSHA SETU: AI-IOT PLATFORM FOR INCLUSIVE DISASTER PREDICTION & RESPONSE	MUGDHI SAXENA, JATIN KUMAR, SANYA UPPAL, SIDDHARTH KUMAR

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
10:00	10:10	**931**	STACKED ARTIFICIAL NEURAL NETWORK (SANN) FOR INTRUSION DETECTION SYSTEM	BIDYAPATI THIYAM, SHOUVIK DEY
10:10	10:20	**933**	PREDICTIVE DEMAND FORECASTING FOR E-COMMERCE SUPPLY CHAINS	SHAIK AKRAM, TUSHAR KANTI DE, NIKITHA, GOKAVARAPU B S R S L, MOVVA SAI SUSHMITHA CHOWDARY, ABBAGOUNI AVINASH GOUD
10:20	10:30	**95**	HYBRID DEEP LEARNING MODEL FOR TRAFFIC SYMBOL INTERPRETATION AND ONBOARD VEHICLE ANALYTICS IN CONGESTED URBAN NETWORKS	SHREYA DE, RAHUL CHAURASIYA
10:30	10:40	**989**	A CASE STUDY ON NIFTY 50 USING GENETIC ALGORITHM-BASED HYPERPARAMETER OPTIMIZATION FOR STOCK PRICE PREDICTION	GURU BRAHMAM MADALA, SHREYAS S, RAHUL NAYAK, ANAND R VIJAY, MAKARAND JOSHI MRUDULA

Track 9: Control and Instrumentation – Session IV (09:00–10:40)

Venue: *Lecture Hall 2*

Chair: *Prof Dr. B K Roy & Dr. Raja Rout*

Student Co-ordinator: *Sampatirao Nanibabu*

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
09:00	09:10	**441**	SAFETY DEVICE FOR UN-MANNED LEVEL CROSSINGS	ANIL YARAMALA
09:10	09:20	**506**	STABILIZATION AND TRAJECTORY TRACKING OF A NONLINEAR PENDULUM USING INPUT-STATE LINEARIZATION	BIPIN KRISHNA, CHAITRA B T, DEPHNEY BLOSSOM
09:20	09:30	**692**	SMART LUGGAGE-CARRYING ROBOT WITH OBSTACLE AVOIDANCE	PHANENDRA SRI SAI MANIKANTA, MANGA JANGIDI, ARUN GOUD
09:30	09:40	**712**	NON-LINEAR CONTROL OF QUAD-COPTER USING SLIDING MODE CONTROL TECHNIQUE	PINTSHO SHERPA, ANIRBAN SENGUPTA
09:40	09:50	**805**	INTELLIGENT PH REGULATION WITH AN ADAPTIVE NEURO-FUZZY PI CONTROLLER IN	PASUPATHY MADHAVASARMA, PRABAKAR TN

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
			SACCHAROMYCES CEREVISIAE BIOREACTORS FOR IMPROVED INVERTASE PRODUCTION	
09:50	10:00	919	REDUCED-ORDER MODELING OF LTI SYSTEMS THROUGH BALANCED TRUNCATION AND NELDER-MEAD OPTIMIZATION	CHHOTU CHOUHAN, PRAVEEN KUMAR, PANKAJ RAI, AMIT KUMAR CHOUDHARY
10:00	10:10	99	HARNESSING CLASSICAL, ADAPTIVE AND INTELLIGENT CONTROL STRATEGIES FOR NONLINEAR BALL AND BEAM SYSTEM	ABDULLAH BIN QUEYAM ABDULLAH BIN QUEYAM, GAURAV KUMAWAT, NIRAJ KUMAR GOSWAMI

Track 7: Power System and Smart Grid – Session IV (09:00–10:40)

Venue: **Lecture Hall 3**

Chair: **Dr. Ravita & Dr. Anirban Sengupta**

Student Co-ordinator: **Lanusubo Walling**

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
09:00	09:10	853	THE PERFORMANCE AND FEASIBILITY ANALYSIS OF HYBRID FLOATING SOLAR PV SYSTEMS ON TOTLADOH DAM, NAGPUR, MAHARASHTRA	SHRESTHA BINDHANI, GUNDA SAI CHARAN RAJ, P S KULKARNI
09:10	09:20	952	ADVANCED ENERGY MANAGEMENT VIA INTEGRATED CONVERTER IN PV-WIND HYBRID STORAGE-BASED DC MICROGRIDS	SARAVANAKUMAR RAJU,SRINIVASAN S
09:20	09:30	954	IMPLEMENTATION OF AN ARTIFICIAL NEURAL NETWORK-BASED HOME ENERGY MANAGEMENT SYSTEM	BALASUBRAMANIAN GANESAN, NIRMALA JEGADEESAN, HEMAVATHI NATARAJAN, SRIRANJANI R
09:30	09:40	957	A BIO-INSPIRED ALGORITHM FOR ENHANCED POWER EFFICIENCY IN RADIAL DISTRIBUTION NETWORKS	SANGEETA DEBBARMAN, KUMARI NAMRATA
09:40	09:50	964	POWER SYSTEM HARMONICS MITIGATION UNDER NON-LINEAR LOAD CONDITIONS USING SHUNT ACTIVE FILTER BASED MODEL	ANUSHA SAHA, AMRITA GANGULY
09:50	10:00	995	AN ANALYSIS OF THE ESTIMATION OF PV PANEL MISMATCH LOSSES DUE TO PARTIAL SHADING	DARSHANA SHARMA

Track 2: Signal Processing – Session IV (09:00–10:40)

*Venue: **Lecture Hall 4***

*Chair: **Dr. Rajesh Babu & Dr. Sudipta***

*Student Co-ordinator: **T Chonbenthung Odyuo***

FROM	TO	PAPER ID	PAPER TITLE	AUTHORS
09:00	09:10	**431**	EFFECT OF POSTURE ON THE RESPIRATORY MODULATION OF CARDIOMECHANICAL SIGNALS	SUMIT SINGHA, L.N. SHARMA, SAMARENDRA DANDAPAT
09:10	09:20	**1100**	EMG-DRIVEN MACHINE LEARNING FRAMEWORK FOR MULTI-CLASS PAIN CLASSIFICATION	NAYAN JYOTI BORO, DR. SHANKAR K, DEBASHIS DAS
09:20	09:30	**818**	A LIGHTWEIGHT DEEP LEARNING MODEL FOR BAND SELECTIVE HYPERSPECTRAL RECOVERY FROM RGB IMAGE	GOURI CHETIA
09:30	09:40	**904**	NEURAL DECODING OF VISUAL IMAGERY FROM EEG SIGNALS: A COMPARATIVE STUDY OF DEEP GENERATIVE MODELS FOR EEG-TO-IMAGE TRANSLATION	NANDAN TIWARI
09:40	09:50	**930**	EFFECT SIZE-DRIVEN FEATURE SELECTION AND MACHINE LEARNING FOR INTERPRETABLE LEFT VENTRICULAR HYPERTROPHY DETECTION FROM ECG SIGNALS	SIVARAMAN JAYARAMAN, GAYATHIRI RR, ARYA BHARDWAJ, PRADEEPKUMAR R, BALA CHAKRAVARTHY NEELAPU, KUNAL PAL
09:50	10:00	**934**	ADVANCED BRAIN TUMOR SEGMENTATION FROM MR IMAGES USING MODIFIED DEEP ARCHITECTURE	ASHFAQ HUSSAIN, SAHARUL ALOM BARLASKAR, RABUL HUSSAIN LASKAR
10:00	10:10	**956**	ENHANCING EARLY PARKINSON'S DISEASE DIAGNOSIS THROUGH COMPARATIVE ANALYSIS ON HAND-DRAWN SPIRAL AND WAVE DATA	SUDHARSAN PARTHASARATHY SUDHARSAN PARTHASARATHY, IPPILI TASWIN, NISHMAIE MALLIPEDDA

IMPORTANT INSTRUCTIONS

1. The author should present their work physically or virtually during the assigned schedule. They **must be present** during the entire session as per the schedule.
2. If the presenter fails to be present during the allotted schedule, the decision regarding inclusion of the paper in the conference proceedings (IEEE Xplore) will be subjected to the decision of the Session Chair/s and Organising Committee.
3. The E-Certificate of presentation will be provided and sent to the registered email ID of the corresponding author after 07 days from the completion of the conference.

**This tentative schedule is based on Registered Paper IDs

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