MIZORAM UNIVERSITY
INTERNATIONAL CONFERENCE ON
ADVANCED INNOVATIVE RESEARCH IN ENGINEERING
AND TECHNOLOGY
(ICAIRET 2024)

SCHOOL OF ENGINEERING AND TECHNOLOGY

TRACK 1 - Advancing Research in Intelligent Systems and Sustainable Computing
Under
Department of Computer Engineering

PAPER PRESENTATION

Day 1- 13/03/2024 (Wednesday)   **Session- I**   **Timing: 3.00 P.M - 4:00 P.M**

Venue: Computer Engineering
(meet.google.com/fwo-fcck-wdp)

Session Chair: Prof. G. Nalini Priya, Saveetha University

PAPER NO	TITLE	AUTHORS	COLLEGE NAME
8	Empowering Inclusive Knowledge Access: A Device for Individuals with Physical Disabilitie	CS MANIGANDAA	Panimalar Engineering College
10	Application of SAFARI in Prediction of Heart Disease	Irfan Rajab Bhat	University of Kashmir
25	Extraction of signal features in Speech Signals to train machine learning-based Classifier Algorithms for Emotion Detection.	BHISAJI C Surve	Mukesh Patel School of Technology Management & Engineering
36	Detection of Lung cancer using Deep Learning Algorithms	Susmita Das	Tripura University
37	A recommender system based on Deep Learning model for assessment of emotional stability of a student	Amit Garg	Mahila Engineering College Ajmer
46	Detection and Recognition of printed kannada text in scene images using machine learning	Mahadeva prasad Y N	MIT Thandavapura
112	A Transfer Learning Framework for Sentiment Analysis in Indian Vernaculars	Kunal Kumar	Mizoram University

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PAPER PRESENTATION
Day 2- 14/03/2024 (Thursday)   Session- II   Timing: 12.00 P.M - 1:30 P.M
Venue: Computer Engineering
(meet.google.com/nuw-ycyq-nzz)
Session Chair: Dr.S.Prabhu, Pondichery University

PAPER NO	TITLE	AUTHORS	COLLEGE NAME
48	**Visualizing Alzhimer's Prediction: An Ensembled Deep Learning and Grad-CAM Approach**	Archana Menon P	Karpagam Academy of Higher Education
49	**Content distribution strategy of Fog computing-A Review**	Senbagavalli Marimuthu	Alliance University
52	**Anomaly Detection using Particle Swarm Optimization for Intrusion Detection**	M. Sushilata Devi,	Mizoram University
56	**k-NN(DMTD): Distance Of Mixed Type Data Classification Using k-NN**	Khumukcham Robindro	Manipur University
64	**Dynamic Trust Management in the Social IoT: A Review of Machine Learning-based Solutions**	Alan Lalhriatpuia	Mizoram University
72	**GBC_DA: A Privacy-preserved Platform for Storage and Analysis of Gallbladder Cancer Image Dataset**	Dr. Rosy Sarmah	Tezpur University
91	**Detecting Counterfeit Currency With Image Processing**	Trupthi P	Maharaja Institute of Technology,Thandavapura

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SCHOOL OF ENGINEERING AND TECHNOLOGY

TRACK 3 - Electronics and Communication
Under
Department of Electronics and Communication Engineering

PAPER PRESENTATION

Day 2- 14/03/2024 (Thursday)   Session- III   Timing: 12.00 P.M - 1:30 P.M

Venue: Electronics and Communication
(https://meet.google.com/xnu-faun-akh)
Session Chair: Prof. Dr.Niladri Pratap, NITTTR Kolkata

PAPER NO	Title	Authors	College name
132	**Cutting-Edge Security: Real-Time Weapon Recognition in Surveillance Videos with Deep Learning**	KISHORE REDDY ADURI	Mizoram university
133	**IOT Based ICU Patient Monitoring System**	NARAYANAM SRI PRAKASH	MIZORAM UNIVERSITY
EC01	**Modeling and Simulation of a square membrane MEMS transducer using COMSOL Multiphysics**	Bijit	Mizoram University
EC02	**Investigation on MEMs Based Hexagonal Capacitance Micromachined Ultrasonic Transducer**	C Hmingthansanga	Mizoram University
EC03	**The Parametric Studies of a Clamped-to-Clamped Single Beam Accelerometer**	Mrinmoy Singha	Mizoram University
EC04	**Behavioral changes in a single fixed to fixed resonator on actuation of micro machined Accelerometer**	Pragyani Patra	Mizoram University
EC05	**Capacitive Modelling of CMUT**	Annu Kumari	Mizoram University

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SCHOOL OF ENGINEERING AND TECHNOLOGY
TRACK 4 - Electrical Engineering
Under
Department of Electrical Engineering
PAPER PRESENTATION
Day 2- 14/03/2024 (Thursday)   Session- IV   Timing: 12.00 P.M - 1:30 P.M
Venue: Electrical Engineering
(https://meet.google.com/nkq-bxbj-ixf)
Session Chair: Pabitra Kumar Biswas, NIT Mizoram

PAPER NO	Title	Authors	College name
5	**Next –Gen Energy Conservation through Advanced Data Fusion in Clustered Wireless Sensor Networks**	CS MANIGANDAA	Panimalar Engineering College
65	**Quality Assessment of Rice using Convolution Neural Network**	Nilutpal Phukon	Mizoram University
23	**Towards a Greener Future: Analyzing the Trends and Influences in Sustainable Energy Literature**	Alpesh Kumar Dauda	SAMBALPUR UNIVERSITY INSTITUTE OF INFORMATION TECHNOLOGY (SUIIT)
24	**An Overview of Performance Validation, Testing Protocols, and Standards for Smart Meters**	Vikram Kulkarni	Mukesh Patel School of Technology Management and Engineering, SVKM's NMIMS University
28	**Enhancing Classroom Environment's Sustainability and Efficiency through AI - Driven Measures**	Sundaram S	Kumaraguru College of Technology
33	**AUTOMATIC LOAD FREQUENCY CONTROL IN MULTI-AREA SYSTEM INCORPORATING RENEWABLE SOURCES USING CLASSICAL CONTROLLER UNDER DEREGULATED MARKET**	F. LALHMANGAIHZUALA	Mizoram University
100	**Reduction of Losses in Radial Distribution System by placement and sizing of Shunt Capacitor using Moth Flame Optimization**	F.Lalawrrpuia	Mizoram University
106	**Investigation on Solar Refrigeration System**	Sonu Kumar	Erode Sengunthar Engineering College
108	**A Review of Electrical Generators for Wind Energy Conversion system**	Y. Bonish Singh	Mizoram University

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SCHOOL OF ENGINEERING AND TECHNOLOGY

TRACK 5 – Emerging Trends in Civil Engineering
Under
Department of Civil Engineering

PAPER PRESENTATION

Day 2- 14/03/2024 (Friday)   **Session- V**   **Timing: 12.00 P.M - 1:30 P.M**

Venue: Civil Engineering
Session Chair: Mr.R.Lalpeka, Asst. Engineer. , PWD Officer

PAPER NO	Title	Authors	College name
141	**ASSESSMENT OF SELECTED HILL SLOPES STABILITY.**	K. Zirsangzeli	Mizoram University
142	**NATURAL SAND REPLACEMENT WITH DIFFERENT GRADATION OF CRUSHED SAND IN CEMENT CONCRETE**	Lalrinchhana	Mizoram University
143	Recent Advancement towards the Application of Drinking Water Supply Distribution System in Hilly Terrains	R.Lalthangmawii	Mizoram University
145	**ANALYSIS OF HUNTHAR SLOPE STABILITY**	C T Lalrotluanga	Mizoram University
122	Use of Renewable energy towards sustainable water distribution systems in Mountain Terrains	Vanlaldiki	Mizoram University
CV01	**DESIGN AND ANALYSIS OF RCC T-BEAM BRIDGE**	Pratima Mahata	Mizoram University
59	**Rubberized Geopolymer concrete with fly Ash Based - Eco-friendly Environment**	manjula	Adamas University,
148	**Investigating the Geological and Hydrological Characteristics of Sustainable GroundWater Recharge zone for Aizawl City**	ASHOK KUMAR MAHAWAR	MIZORAM UNIVERSITY

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TRACK 2 - Data Communication and Computer Networking
Under

Department of Information Technology

PAPER PRESENTATION

Day 2- 14/03/2024 (Thursday)   Session- VI   Timing: 3.00 P.M - 4:00 P.M

Venue: Information Technology
(meet.google.com/wnt-tshr-tfe)
Session Chair: Dr. Somen Debnath, Tripura University

PAPER NO	Title	Authors	College name
30	**A Review to Evaluate the Effectiveness and Impact of IoT in Improving Soil Health Monitoring and Management Practices in Hilly Areas**	Vanlalsiama Ralte	Mizoram University
32	**Big Data Analytics in Healthcare: Transforming Patient Care, Operational Efficiency, and Stroke Management**	Anusha Palagati	Guru Nanak Institute of Technology
62	**Leveraging Internet Of Battlefield Things For Networked Warfare**	Rachit Ahluwalia	Mizoram University
126	**Sybil Attack Detection Techniques in Wireless Network: A Comprehensive Review**	Lalzuitluanga Khiangte	Mizoram University
140	**Machine Learning Intrusion Detection Systems related to Smart Metering Protection**	Otisitswe Kebotogetse	Botswana International University of Science and Technology, Palapye, Botswana

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TRACK 1 - Advancing Research in Intelligent Systems and
Sustainable Computing
Under
Department of Computer Engineering

PAPER PRESENTATION

Day 2- 14/03/2024 (Thursday)   Session- VII   Timing: 3.00 P.M - 4:00 P.M

Venue: Computer Engineering
(meet.google.com/xcw-ubrd-xkn)
Session Chair: Prof. Dr.S.Malathi, Panimalar Engineering College

PAPER NO	Title	Authors	College name
77	**A Voice-Driven Indian Sign Language Interpreter for Deaf Accessibility using Speech Recognition and Image Processing**	Bhuvan Gowda U	Maharaja Institute Of Technology, Thandavapura
82	**Weapon Detection and Alert System in ATM Using Deep Learning**	Rajashree P	Maharaja institute of technology Thandavapura
83	**UNI - A Retrieval Augmented Generation powered Virtual Assistant for college related queries**	Sanjana J	Maharaja Institute of Technology Thandavapura
86	**CLASSIFICATION OF BULK RICE GRAIN USING CONVOLUTIONAL NEURAL NETWORK**	Anurag Bhattacharjee	Mizoram University
87	**A Deep Learning- Based Learning Speech Assistance System for the Visually Impaired People**	Sharath D S	Maharaja Institute of Technology,Thandavapura
105	**Fuzzy time series forecasting based on overlapping partitions**	Abhijit Gogoi	Tezpur University

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TRACK 6 - Food Technology
Under
Department of Food Technology

PAPER PRESENTATION

Day 3- 15/03/2024 (Friday)   Session- VIII   Timing: 12.00 P.M - 1:30 P.M

Venue: Food Technology
(https://meet.google.com/oho-opxn-sbq)
Session Chair: Dr. Raju SasiKumar, North Eastern Hill University

PAPER NO	Title	Authors	College Name
FT 01	**Assessment of comprehensive nutritional composition of common Indian fruits by-products**	Anwesha Mahajan	ICMR-National Institute of Nutrition, Hyderabad,
FT02	**Statistical modelling-based optimization of a convenient product from pigmented rice**	Gunjana Deka[1]* and Himjyoti Dutta[1]	Mizoram University
FT03	**Value addition of citrus beverage through a novel non-destructive technique**	Sayantan Chakraborty	Mizoram University
137	**Effect of microwave roasting and pressure cooking on polyphenolic content and antioxidant activity of Indian pigmented maize**	Pallabika Gogoi	ICMR-National Institute of Nutrition, Hyderabad,
FT04	**Development of ready-to-fry snack from underutilize elephant foot yam**	Nabam Kuttu	Mizoram University

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TRACK 1 - Advancing Research in Intelligent Systems and Sustainable Computing
Under
Department of Computer Engineering
PAPER PRESENTATION
Day 3- 15/03/2024 (Friday)   Session- IX   Timing: 12.00 P.M - 1:30 P.M
Venue: Computer Engineering
(meet.google.com/yfg-wuni-fzx)
Session Chair: Prof. Dr.Chitra Selvi, Anna University

PAPER NO	Title	Authors	College name
92	**Personalized Music Playlists via Deep Learning Emotion Detection**	Spoorthi M	Maharaja Institute of Technology, Thandavapura
94	**Toxic Comment Classification System: a survey**	Madhan S MADHAN Kumar G S	MAHARAJA INSTITUTE OF TECHNOLOGY MYSURU
96	**DEFENSE AGAINST ADVERSARIAL AI**	Soundarya S	Panimalar Engineering College
98	**IntelliCare: Integrating IoT and Machine Learning for Remote Patient Monitoring in Healthcare: A Comprehensive Framework**	Gautham Praveen Ramalingam	Syed Ammal Engineering College
99	**Emotion Detection by Speech Signal using Supervised Learning through SVM & KNN**	Ashwin Shrivastava	Shri G.S. Institute of Technology & Science, Indore
144	**Dynamic Association Mining Techniques for the Faster Extraction of High Utility Itemsetfor the Incremental Databases**	Shravani Mahesh Shinde	Sanjivani College of Engineering
139	**Automated Attendance Management With CNN-Based Facial Recognition**	Sukrutha M J	Maharaja institute of technology
CE01	A HYBRID MODEL FOR HEART DISEASE PRDICTION USING MACHINE LEARNING ALGORITHM	Danish Quamar	Mizoram University

CE02	An approach for initial truth discovery preprocessor of crowd sensed data using clustering and data fusion	Nungleppam Gopil Singh	Mizoram University
CE03	Comparison of Clustering-Based Techniques for Outlier Detectio	Lalramnunkima	Mizoram University