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Spatiotemporal Prediction of Chickenpox Cases using Graph Attention Network	Nitisha Aggarwal; Ishita Pundir; Unmesh Shukla; Sanjeev Singh
Automated Detection of Common Maternal Fetal Ultrasound Planes Using Deep Feature Fusion	Thunakala Bala Krishna; Priyanka Kokil
A Matching Energy based approach in wavelet domain to distinguish hyper-responsive behavior in Autism Spectrum Disorders	Priyalakshmi Sheela; Subha D Puthankattil
Enhancement of Diagnostic Information in T1-weighted Contrast Enhanced MRI using Deep Back-Projection based Super-Resolution	Sumit Datta; Bhabesh Deka; Samarendra Dandapat; Sushant Kumar; Arnab Majumder
Voting Ensemble SVM Model for Deep CNN Based Breast Histopathology Classification	Jyoti Chowdhary; Praveen Sankaran
Diabetic Retinopathy Classification Based on Segmented Retinal Vasculature of Fundus Images Using Attention UNET	Fousiya T T; Dr. Ahammed Muneer K V
Automated Classification of Pathological Speech Signals	Deepak Kumar; Udit Satija; Preetam Kumar
An Explainable AI approach towards Epileptic Seizure Detection	Neeta Hemant Chapatwala; Chirag Paunwala; Poojan A Dalal
LungNodNet-The CNN architecture for Detection and Classification of Lung Nodules in Pulmonary CT Images	Humera Ms Shaziya; Shyamala Prof Kattula
Acoustic Signal Based Diagnosis of Neurodegenerative Parkinson's Disease through Machine Learning Approach: A Review	Shibina V; Dr.T M Thasleema
An Effective Heart Valve Disorder Classification Technique Using Phonocardiograms	Rishal S P; Udit Satija
Discrete Cosine Transform based Laplacian Phase Unwrapping for Phase Image application	Shradha Verma; Dr. Tripti Goel; R Murugan
U-NET Architecture for Liver Segmentation using Multi Model Scans	Tripty Singh; Ayush Kumar
Learning Brain Computer Interface model for Amyotrophic Lateral Sclerosis (ALS) people using Random Forest – Linear Discriminant Analysis (RF-LDA) Algorithm	Arun Kumar S; Dr. Anil Kannur; Akash C K; Venkatanath Koushik P S; Kushal S; Shaik Anwar C

An IoT-Enabled Stress Detection Scheme Using Facial Expression	Hindu Angalakuditi; Biswajit R Bhowmik
Robust Design Optimization of Powered Air Purifying Respirator System by Iterative Process	Deepu D Sasi; Ayyappan Ajan
Emotion Estimation Using EEG with Deep learning Networks	Marrapu Vynatheya; Subha D Puthankattil
Upper Gastrointestinal Endoscopic Imaging Using Vine Robots	Rishi Manoj; Athira H; Anudev Asokan; Aneesha A R; Ken Thomas Abraham; Darsana G
An automated system for sleep staging using EEG brain signals based on a machine learning approach	Santosh Kumar Satapathy; Hari Kishan Kondaveeti; Sreeja S R
Multiscale Kernel Residual Convolutional Neural Network to Detect Heart Valve Diseases	Samarjeet Das; Samarendra Dandapat
Brain Computer Interface for Intelligent Prosthesis	Sreehari N; Abhijith P; Mukund C Menon; Rihaz Zahir; Manojkumar P; Dr Jessy John
Physical Activity Classification with Smartphone based Accelerometer, Gyroscope and Device Motion for Personal Diabetes Healthcare Management	Deepjyoti Kalita; Mirza Khalid Baig
Significance of Pre-Processing Phase and Dimensionality Reduction in EEG-based Dyslexia Diagnosis with Novel Features	Shankar Parmar; Chirag Paunwala
A Multi-Scale Residual Neural Network for ECG Based Person Identification	Debasish Jyotishi; Samarendra Dandapat
Soft attention with Convolutional Neural Network for Grading Diabetic Retinopathy	K Ashwini; Ratnakar Dash
A Machine Learning Framework for Automatic Diagnosis of Schizophrenia Using EEG Signals	Rakesh Ranjan; Bikash Chandra Sahana
Multimodal Simultaneous Amperometry and Electrochemical Impedance Spectroscopy measurement for Biosensing Applications	Hrishita Sharma; Deepjyoti Kalita; Mirza Khalid Baig
Weighted Vector Visibility based Graph Signal Processing (WVV-GSP) for Neural Decoding of Motor Imagery EEG signals	Priyanka Mathur; Vijay Kumar Chakka; Vidhi Garg

Track: Next Generation Computing & Applications

Sequential Memory Modelling for Video Captioning	Puttaraja H; Chidambara Nayaka; Manikesh S; Nithin Sharma; Anand Kumar M
Identifying Similar Questions in the Medical Domain Using a Fine-tuned Siamese-BERT Model	Alimurtaza Mustafa Merchant; Naveen Shenoy; Abhinav Bharali; Anand Kumar M
Fast Classification for Identification of Vehicles on the Road from Audio Data of Pedestrian's Mobile Phone	Pravin Vitthal Kakade; Lakshi Prosad Roy
Multivariate Water Quality Forecasting of River Ganga Using VAR-LSTM based Hybrid Model	Mogarala Tejoyadav; Rashmiranjan Nayak; Umesh Chandra Pati
Indian Legal Text Summarization: A Text Normalization-based Approach	Satyajit Ghosh; Mousumi Dutta; Tanaya Das
Autonomous Navigation of Lab Assisting Mobile Robot Using SLAM	Chandni S Vijay; Rajesh Kannan
Autonomous Fertilizer Spraying Mobile Robot	Abhiram Reghu; Rajesh Kannan
Detection and Classification of Banana leaf diseases using Machine Learning and Deep Learning Algorithms	Vidhya N P; Priya R
Basil Leaf Diseases Detection using Deep Learning architectures	Kavitha R
On Improving Performance of NeMo ASR system for Indian Accent English	Sourav Chattopadhyay; Junaid Hamid Bhat; Sowmya Rasipuram; Aditi Debsharma; Anutosh Maitra
Computational Framework for Node Placement and Bandwidth Optimization in Dynamic Fog Computing Environments	Sheela S; Dharamendra Chouhan; Dilip S M Kumar
Fruit Healthiness Detection and Filtering System	Venkatesh Venkatesh; Siddhanth Hegde; Shravan Tandel
A Fast and Effective Machine Learning Approach for Road Cracks Classification	Rajdeep Dr. Chatterjee; Ankita Chatterjee; Soham Roy; Mahendra Kumar Gourisaria
CarParkingVQA: Visual Question Answering Application on Car Parking Occupancy Detection	Vikash Hela; Lubna A; Saidalavi Kalady
A user-oriented multi-input Sentiment Analysis and Feedback System for mental state awareness necessitated due to COVID-19	Minakshee Dashrath Narayankar; Ishita Tambat; Nisha Rajesh Gharpure; Suja Jayachandran
Real Time Recording and Monitoring of Wild Animal Movements	Joel John Kandathil; Aliya Ashraf; James Babu; Joffin Francis; Jerin Thomas
Design of Drowning Prevention Scheme with Efficient Routing Protocol for Underwater Wireless Sensor Network	Indrajit Banerjee; Shilpa De; Arnab Goswami
A Duplex Method for Prediction of Concrete Strength Using Dimensionality Reduction	Mahendra Kumar Gourisaria; Ayush V. Patel; Vinayak Singh; Rajdeep Dr. Chatterjee
Factors Influencing Cost and Performance of Federated and Centralized Machine Learning	Rajasekhara Reddy Duvvuru Muni; Hwang-Ki Min; Sivakumar Tadi Venkata; Sagar Kaushik; Aniruddha Bardhan; Karthikeyan Kumaraguru; Ibrahim Abdul Majeed
Deep Learning Based Optimal Traffic Classification Model for Modern Wireless Networks	Putta Hemanth Kumar
Unsupervised Abstractive Text Summarization with Length Controlled Autoencoder	Abhinav Dugar; Gaurav Singh; Navyasree B; Anand Kumar M
Voice Assisted Image Captioning and VQA For Visually Challenged Individuals	Rushil D Patel; Kristen Pereira; Joy Almeida; Rupali Sawant

Wasserstein Distance for Attention based cross modality Person Re-Identification	Nirmala Murali; Deepak Mishra
English-to-Malayalam Machine Translation Framework using Transformers	Jijo Saji; Midhun Chandran; Mithun Pillai; Nidhin Suresh; Rajeev Rajan
Adaptive Super Twisting Control of Stewart Platform Based on Super Twisting Observer	Safeena M K; Dr. Jiji K S; Ramesh Kumar P
Predicting Wildfire using Live Fuel Moisture Content with Machine Learning	Ramalingaswamy Cheruku; Aman Kohil
Realization of Turbo Decoder on Coarse Grained Reconfigurable Architectures	Swathi Sekhar; Yadukrishnan Gopinathan; Yamuna B; Karthi B
Analysis of Subword based Word Representations Case Study: Fasttext Malayalam	Vivek M R; Priya Chandran
Enhanced Group Recommendations using member inclination and item usefulness	Jitendra Kumar; Bidyut Kumar Patra
Prediction and Recovery of Radio Link Failure Caused by Environmental Factors	Shyamal Krishna Agrawal; Somesh Banerjee; Rajarshi Mahapatra
Terrain Classification using Transfer Learning on Hyperspectral Images: A Comparative study	Uphar Singh; Kumar Saurabh; Neelaksh Trehan; Ranjana Vyas; O P Vyas
Adaptive Sliding Mode Controller for Overactuated Quadrotor UAV	Binoj James; Bindu G R
Clustering Algorithm To Mitigate Intra And Inter Cell Interference In 5G Backhaul Wireless Mesh Networks	Nirmalkumar S Benni; Sunilkumar S Manvi
Analysis of the key components of segmentation-free bilingual OCR for mobile phones	Deepak Kumar; Ramakrishnan A G
Artificial Bee Colony Optimization based Optimal Convolutional Neural Network Architecture Design	Arjun Ghosh; Dr. Nanda Dulal Jana
NOW - LBP GLCM Feature as the Texture Descriptor of the Camera Fingerprint in Image Forensics	Aiswariya Raj; Deepa Sankar
An Analysis of Performance Evaluation Metrics for Voice Conversion Models	Md. Tousin Akhter; Padmanabha Banerjee; Sandipan Dhar; Dr. Nanda Dulal Jana
Neural Network based Realtime Walking Speed Estimation and Gait Phase Detection using Smart Insoles	Debadrata Sarkar; Abhijit Singh; Sagnik Chakraborty; Shibendu Shekhar Roy; Aman Arora
CMHFL: A new Fault Localization technique based on Cochran–Mantel–Haenszel method	Rutwik Dharanappagoudar; Palash Gupta; Dr. Sangharatna Godboley
An Efficient Floor Plan Classification with Optimized Image Features using Machine Learning	Karthik K; Safvan Ck; Vinu Abraham Samuel
RiceCloud: A Cloud integrated Ensemble learning based Rice leaf Diseases prediction System	Abhimanyu Bhowmik; Madhushree Sannigrahi; Deepraj Chowdhury; Debanjan Das
A Novel Segmentation Algorithm For Handwritten Document Using Contour Point Extraction	Amitha Mary Benny
A FAISS-based Search for Story Generation	Godwin George; Rajeev Rajan
Multi-label Comment Classification Using GloVe-RNN Framework	Sahana Nazar; Rajeev Rajan
Small Text Extraction from Documents and Chart Images	Rominkumar Busa; Shahira K C; Lijiya A

Deep neural network aided multi-omics drug response prediction for breast cancer	Haneem E M; Abhinav Unniyattil; A Vishnusankar; Abinas V; Abdul Nazeer Ka
Stacked Attention based Textbook Visual Question Answering with BERT	Aishwarya R; Sarath P; Shibil Rahman P; Sneha U; Sruthy Manmadhan
Microservice-Oriented Cloud-Based Driver Vigilance System for Accident Protections	Rachit Verma; Bhagyalakshmi M; Shajulin Benedict
SPEVMS: A Smart and Prioritized Emergency Vehicle Management System	Shreya T,A; Adwitiya Mukhopadhyay
LGCM: A Communication-Efficient Scheme for Federated Learning in edge devices	Nafas Gul Nafas Saadat
Multi-label Bird Species Classification Using Hierarchical Attention Framework	Noumida A; Rajeev Rajan
Development and Analysis of Convolutional Neural Network based Accurate Speech Emotion Recognition Models	Arun A V; Divya M Vijayan; Ganeshnath R; Ajay Nath S A; Rajesh Cherian Roy
Enhancing Group Recommendation Using Attention Mechanisam	V Ramanjaneyulu Yannam; Jitendra Kumar; Leela Sravani; Korra Sathya Babu
A Review On Game Theoretical Incentive Mechanism For Federated Learning	Lekha C Warrier
On the Analysis of NB-IoT in the Context of Monitoring Services	Priyatosh Mandal; Anil Kumar
Cloud-Assisted Dynamic and Cooperative Content Caching in Mobile Edge Computing	Manojit Ghose; Vishal Deka; Akhirul Islam
A Review on Trajectory Optimisation Techniques for Launch Vehicles during Ascent Phase	Serene Siby; Sreeja S
Machine Learning-Driven Snow Cover Mapping Techniques using Google Earth Engine	Saptarshi Panda; Ritu Anilkumar; Bunil K Balabantaray; Dibyajyoti C; Rishikesh Bharti
Multi-Agent Coverage Path Planning using a Swarm of Unmanned Aerial Vehicles	Ragala Chethan; Indrani Kar
RMSOD: A RetinaNet based Mixed Supervised Object Detection Framework	Blossom Treesa Bastian; Jiji C V
Designing a Trustworthy and Secured House Rental System using Blockchain and Smart Contracts	Chirag Modi; Pooja Yadav; Shubham Sharma; Ajit Muzumdar; C Vyjayanthi
Road segmentation from satellite images using FCNN for autonomous driving vehicles	Anjitha A P; Saritha M; Baburaj Madathil
Automatic Correction of Speech Recognized Mathematical Equations using Encoder-Decoder Attention Model	Mounika Yarabolu; Tarakaram Yadalla; Lakshmi Prasanna Yadlapalli; Deepa Gupta; Peeta Basa Pati
Decentralized distributed ledger-based marketplace for trading agricultural goods	Alfin Abraham; Santosh Kumar M B
Video Synthesis Strategies for IoRT Environments: Research Challenges and Opportunities	Jeevanandham S; Mani Deepak Choudhry; Shirley Josephine Mary R; Anbarasan R
Real-Time Privacy-Preserving Fall Detection using Dynamic Vision Sensors	Shyam Sunder Prasad; Naval Kishore Mr Mehta; Abeer Banerjee; Himanshu Kumar; Sumeet Saurav; Sanjay Singh
Deep Learning-based 3D Object Detection Using LiDAR and Image Data Fusion	Binoy B Nair; Bizzam Murali Bharadwaj
LEAN: Light and Efficient Audio Classification Network	Shwetank Choudhary; Karthik Cr; Punuru Srilakshmi; Sumit Kumar

Power Efficient Approximate Booth Multipliers for Error Resilient Applications	Suraj Sathya Prakash; Naren Vilva; Uppugunduru Anil Kumar; Syed Ershad Ahmed
Divorce Astrologer: Machine Learning based Divorce Prediction of Married Couples	Oswald C; Shivam Baranwal; Satya Sree Narayanan S M; Arnab Bhattacharya
Mitigating Cold-Start Delay using Warm-Start Containers in Serverless Platform	Anisha Kumari; Bibhudatta Sahoo; Ranjan K Behera
Wild Animal Detection Using Deep Learning	Sreedevi K L; Anitha Edison
Air Writing Recognition of Geometric shapes using CNN	S P Samprithi; Niranjana Krupa
Detection of Motorcyclists without Helmet from Traffic Video using Deep Learning Techniques	Drisya C; Leena Mary
Post Mergers and Acquisitions Integration Solution using Machine Learning	Jitendra Maan; Riddhi Nagwekar
Deep Learning-driven Explainable AI using Generative Adversarial Network (GAN)	Jitendra Maan
Unsupervised Pivot-based Neural Machine Translation for English to Kannada	Hemalatha Gadugoila; Shailashree K K Sheshadri; Priyanka Vivek; Deepa Gupta
An Adaptive Approach to Detect and Track the Cyclone Path Using Remote Sensing Data	Shikha Verma; Ankush Agarwal; Kuldeep Srivastava
Smartphone Based Human Activity Recognition Using RNN Variants	Sonia Abraham; Rekha K James
Pose Estimation of Yoga Poses using ML Techniques	Hema Krishnan; Anagha S; Anagha Jayaraj; Christy Thomas
A Multi-Start Iterated Local Search Algorithm for the Bottleneck Traveling Salesman Problem	Viknesh Rajaramon; Venkatesh Pandiri
Voltage Control of Power System employing Q-Learning based PID Controller	Jayita Saha; Dipayan Guha; Sumit Kumar Jha
UDDSUI: An Unsafe Driving Detection System Using IoT	Adwitiya Mukhopadhyay
Robust Tracking Control for Underactuated Autonomous Underwater Vehicles	Rahul Ranjan Bharti; Jyotindra Narayan; Santosha K Dwivedy
Perception of United Nations Climate Change Conference in Social Networks	Susmita Das; Susanta Chakraborti
Robust Manipulation Detection Scheme for Post-JPEG Compressed Images using CNN	Vijayakumar Kadha; Prashant Deshmukh; Krishna Chaitanya Rayasam; Santos Kumar Das
Reverberation of ERP Implementation in Manufacturing Enterprises Process Outcomes through IoT: Evidence from India	Mallieswari R; V Rema
Integration of Discriminate Features and Similarity Preserving for Unsupervised Domain Adaptation	Obsa Gilo Wakuma; Jimson Mathew; Samrat Mondal
Multi lane detection, curve fitting and lane type classification	Kinnera Merugu; Adarsh S
Automated Analysis and Behavioural Prediction of Interview Performance using Computer Vision	Lijiya A; Muhammed Shifan P; Malavika Pokuri; Hepsi D Priya
A framework for IoT based on Blockchain and Edge Computing in Cyber Physical Systems	Payal Thakur; Dr. Vivek Kumar Sehgal

QuSAF: A Fast ATPG for SAFs in VLSI Circuits Using a Quantum Computing Algorithm	Manjunath T D; Biswajit R Bhowmik
Reinforcement Learning based Control of a Quadruped Robot	Ancy A; Jisha V R
Long Short Term Memory based Covid-19 Mutation Detection for RNA Sequence dataset	Tomcy Thomas; Teddy Thomas; Romal Jose
An Approach to Effectively Manage Access Control, Privacy, and Information Transparency in Hybrid Blockchain for Decentralized IoT Applications	Hiren Dutta
A Cognitive Study on Semantic Similarity Analysis of Large Corpora: A Transformer-based Approach	Praneeth Nemani; Satyanarayana Vollala
Telugu Dialect Speech Dataset Creation and Recognition using Deep Learning Techniques	Rama Sai Abhishek Podila; Ganga Sai Sudeep Kommula; Ruthvik K; Susmitha Vekkot; Deepa Gupta
Latency-Aware Task Partitioning and Resource Allocation in Fog Networks	Mohit Kumar Saxena; Dr Sudhir Kumar
Fault Diagnosis of a Launch Vehicle Actuation System using Wavelet Neural Network	Anjana Vijayan; Baby Sebastian; Asha Ravindranath
A Multimodal Data Fusion Framework For Fake News Detection	Athira A B; Abhishek Tiwari; S D Madhu Kumar; Anu M Chacko
Saliency Detection From 4D Light Field Images Using an Optimized CNN-based Hybrid Model	Parvathy Prathap; Jayakumari J
A Deep Learning Approach to Facial Expression Recognition in the Presence of Masked Occlusion	Shree R Thavarekere; Anushka S Hebbar; Uma D
CTR Prediction Using Wide & Deep and CCPM	Uphar Singh; Abhishek Barman; Kumar Saurabh; Ranjana Vyas; O P Vyas
Workload Characterization in HPC Environment for Autoscaling of Resources – Preliminary Study	Sharad Sinha; Mahesh Barve; Rahul Hardikar; Ashok Gunturu; Writam Mallik
Football Player Transfer Value Prediction Using Advanced Statistics and FIFA 22 Data	V B Jishnu; P V Hari Narayanan; Surya Aanand; Preetha Theresa Joy
A Quantum Communication Based Secure Road Condition Monitoring Application in Intelligent Internet of Vehicular Things	Kumar Prateek; S Maity; Neetesh Saxena
A Survey of Deep Learning Techniques Based On Drone Images For The Search And Rescue Of Victims From Collapsed Structures	Tom Toby; Uma Gopalakrishnan; Sethuraman. N Rao
Automatic Fast Fuzzy Clustering Algorithm for Nucleus Segmentation of Color Pathology Images	Arunita Das; Amrita Namtirtha; Animesh Dutta
Explainable Emotion Recognition from Tweets using Deep Learning and Word Embedding Models	Abdulqahar M Abubakar; Deepa Gupta; Suja Palaniswamy
Image Based Sentiment Analysis using Bayesian Networks and Deep Learning	Sahasra Sai Tarun Mandiga; Nayani Jayanth; Sai Prabhath Mallavarapu
Deep Learning based end-to-end Grasping Pipeline on a lowcost 5-DOF Robotic arm	Pranay Junare; Mihir Pradeep Deshmukh; Mihir Mangesh Kulkarni; Dr. Prashant P. Bartakke
Throughput Prediction in Smart Healthcare Network using Machine Learning Approaches	Priyanka Bardalai; Himadri Neog; Prayakhi Emee Dutta; Dr. Nabajyoti Medhi; Sanjib K Deka
Multi-Crop Leaf Disease Detection using Deep Learning Methods	Dr. Mallikharjuna Rao K; Shristy Kashyap
Exploration of Bonafide and Spoofed Audio Classification Using Machine Learning Models	Naseem Babu; Prattipati Kumar; Jimson Mathew; Udit Satija

Power Efficient Approximate Multiplier Architectures for Error Resilient Applications	Uppugunduru Anil Kumar; Pavan Kumar Bikki; Sree Hari V.; Syed Ershad Ahmed
Manifold Learning-Based Feature Transformation for Object Recognition	Devika A Kadavath
Comparative study of Deep Classifiers for Early Dementia Detection using Speech Transcripts	Anjana S Nambiar; Likhita Kanigolla; Sri Pujya K. V. S.; Deepa Gupta; Susmitha Vekkot; Lalitha S
Effect of Dilated Convolution on Performance and Parameters of Devanagari Script-based P300 Speller	Vibha Bhandari; Narendra D Londhe; Dr. Ghanahshyam B Kshirsagar
Track: Power and Energy Systems	
Life Cycle Analysis of Hydrogen Production and Fuel Cell Electric Vehicle in Indian Conditions	Jani Das
Relative performance evaluation of Novel controllers used for reducing frequency drifts in Power Systems	Keerthana K; C Sreekumar
Impact of TCSC on Distance Protection in Long Transmission Lines	Yamuna U; Thresia M
Techno-economic assessment of Solar Photovoltaic Plants	Jahnavi B P; Rohit K Mathew; Ashok S
Higher Order Sliding Mode Controls for the Voltage Contro of Microgrids	Shilpa Manikandan; Ramesh Kumar P
An adaptive PI based distributed control method to maintain accurate power sharing and voltage regulation in DC Microgrids	Ramu Dadi; Dr Meenakshy K; Dr. Suresh K Damodaran
A Novel Method for Energy Trading in Networked Microgrids Using Matching Theory	Biji Varghese K V; Dr. Dattatraya N Gaonkar
Optimal Battery Scheduling with and without Renewable Energy Sources for Efficient Home Energy Management	Senthil Prabu Ramalingam; Prabhakar Karthikeyan
Application of SCA Tuned FOPID Controller for LFC of Multi-area and Multi-unit Power System with RES Incorporating V2G Technology	Nimai Charan Patel; Swastika Behera; Dipu Mohanta
Modelling and Performance Analysis of Synchronous and Asynchronous Links Integrated into Multi-Machine Systems	Rashmi Mn; Dattatraya Narayan Gaonkar
Highly Miniaturized Dielectric Layer Loaded Split Cavity Resonator for Wireless Power Transfer Applications	Kali Shreyo Ghosal; Sameh Elnaggar; Chinmoy Saha; Yahia Antar
Design and Optimization of Bladeless Turbine	Bharathi Anand M; Resmi R
A Solution of Bid-based dynamic economic load dispatch using a hybrid Mutualism based Pathfinder algorithm	Manoranjan Sahoo; Shekha Rai
Efficient Unsupervised Partial Discharge Detection using Empirical Mode Decomposition and Clustering	Babitha B Nair; Anjith M; Baburaj Madathil
State of Charge Estimation of Li-ion Batteries through Efficient Gated Recurrent Neural Networks using Engineered features	Uday Kumar Reddy Danthaluru Venkata; Ravikumar Bhimasingu
A Two-Layer Transactive Energy System: Upper Layer Analysis	Ren Zedec S Santos; Jordan Rel Orillaza
A Study on LVDC Systems for Commercial Building Applications	Lijo Oliprakkattu; Rani Chacko; Rohit R Eapen; Vinu Sankar
Comparison of Charge Controllers for Low-Power Solar Applications	Kurien Jacob; Resmi R

A Novel Balancing Operation Topology for Single- Phase Supply to Remote Locations from Three- Phase SEIG	Samrat Chakraborty; Rajen Pudur
Unified Approach for Estimation of State of Charge and Remaining Useful Life of Li-Ion batteries using Deep Learning	Bharat Mullapudi; Shanmughasundaram R
Performance Study on Single Phase PWM Rectifier fed Direct Torque Controlled – Induction Motor Drive	Senthamizh Selvan; Dr Venkadesan A
Decentralized Energy Trading Model with Smart Grids and Blockchain	Jaymin B Dafda; Shriniwas Patil; Keyur Parmar
Robust and optimal utilisation of power in a grid-interfaced wind energy conversion system with a GWOA-based efficient controller	Kamaraju Mr. Vechalapu
Mitigation of Fuel Cost in Thermal Generators Using Puzzle Optimization Algorithm	Deblina Maity; Koustav Dasgupta
Evaluation of Performance Parameters of 2T Perovskite/Si Tandem Solar Cells	Kiran Susan Pavu; Dr Jobymol Jacob
Track: Power Electronics and Drives	
Design and Control Implementation of High Power Bidirectional DC-DC Converter for EV Applications using DSP Controller	Yedukondalu Guttula; Susovon Samanta
Design of DC Fast Charging Station with Energy Management	Shubham Shankar Sonawadekar; Rahul Raj Kar; Rupesh Wandhare
Single-Phase Grid-Connected High DC-Gain Flyback Converter for EV Battery Charging	Abhishek Kumar; Mohan Aware; Anup Kumar
Analytical Design Procedure of Synchronous Reluctance Motor and its Validation through FEA	Rachna Panwar; Ragavan K
Fuel Cell - Battery Integrated BLDC Motor for Electric Vehicle with Regenerative Braking	K V Anandkrishnan; Sooraj Suresh Kumar; Anilkumar T T; Jayaprakash P.
L-Impedance Multi-stage DC-DC Boost Converter with CLD cell for High Voltage Gain and Reduced Switch Voltage Stress	Ranjeeta Patel; Amruta Abhishek; Tapas Roy; Chinmoy Kumar Panigrahi
Hybrid Hysteresis Control for SI-MIMO DC-DC Converter	Hemachander Allamsetty; Bharathraghava Ch; Ganesh Kunchala; Sudheer Kenchugundu
On-board EV charging with Vienna Rectifier and LLC Resonant Converter	Abirami Shree R B; Sindhu M R
Analysis of Converter Fault in Switched Reluctance Motor using Finite Element Method	Praveen Kumar N; Vishal Khanna S; Roobin Raj S
Hysteresis based voltage mode control of three phase two level inverters with constant switching frequency	Geethu Chacko; Mathew K .
An enhanced Whale Optimization Algorithm based Control Strategy for LVRT Capability Enhancement of Grid-Connected DFIG-WECS	Arindam Chakraborty; Tanmoy Maity
Modeling of Single phase IBC with Active Power Decoupling	Sudharshan Kaarthik; Vidya V; Mohit Kumar
A Multiple Fault-tolerant Multilevel Inverter with Hybrid Cascaded H-bridges	Archin N Babu; Anjali Anand K

Variable Load Torque Performance Analysis in Flux Weakening Control of PMSM	Shuaib Akbar K.T
An Investigation of Direct Torque Control for a Six-Phase Asymmetrical Induction Motor	Ankurkumar P Desai
Performance Analysis of Grid Integrated e-Mobility Charging using Non-linear Control Algorithm	Subhash Kumar Ram; Brijendra Verma; Sachin Devassy; Sukumar Mishra
Comparative Analysis of Model-Based Approaches for State-of-Charge Estimation in Batteries	Sai Vinay Kishore Nannapaneni; Seshadri Sravan Kumar Vanjari
Optimal Torque Angle Tracking of Interior Permanent Magnet Synchronous Machine Drive using Estimated Flux Linkage	Deepkumar V. Patel; R Chudamani
Voltage Quality Improvement and Power Management of Islanded AC Microgrids with Variable Loads and Sources	Hari Krishnan Sivakumar; Anilkumar Gurrapusala; Karthik Thirumala
Speed Control of Quadratic Boost Converter Coupled Inverter fed PMSM for Electric Vehicle	Anjana M P; Kumaravel S
Application of Non-Isolated Quadratic Boost DC-DC Converter for Solar PV Integration	Vysagh T; Kumaravel S
Analysis of Different Control Techniques for Improved Power Factor and Reduced THD on Three Level Full Bridge AC-DC Converter	Shanmuga Vadivu Kr
Analysis of Impact of Fringing on Design of Inductors with Air Gaps	Keerthi Sudha Bandaru V K S L; Sirija Ranabothu; Seshadri Sravan Kumar Vanjari
Track: Technology Enhanced Learning in Engineer	ring
A Case Study of an Effective Approach to Utilize the Active Learning for Virtual Basic Electrical Engineering Laboratory in Covid-19	Satyabrata S Sahoo
Single Channel Speech Enhancement System using Convolutional Neural Network based Autoencoder for Noisy Environments	Rantu Buragohain; Gudmalwar Ashishkumar; Chevula Ramarao
Visual Attention Score and Fatigue Level Measure of Students through Eye Analysis –Machine Learning Approach	Raji Gopinathan N
Word-Level Speech Dataset Creation for Sourashtra and Recognition System Using Kaldi	Punitha Vancha; Harshitha Nagarajan; Vishnu Sai Inakollu; Deepa Gupta; Susmitha Vekkot
TinyML Based Physical Computing for Education	Sharad Sinha; Anusree Debbarma
Joint Cross-Domain Preserving and Distribution Adaptation for Heterogeneous Domain Adaptation	Lekshmi R; Babita Jose; Jimson Mathew
Light-weight Recommendation System using Graph Neural Networks	Seema Safar; Babita Jose
Deep learning model to empower student engagement in online synchronous learning environment	Cinthia Joy Godly; Venki Balasubramanian; Rehena Sulthana Mohammed; Godly Chackappan
Structural Frameworks for Multi-modal Teaching Methods	Manoj Bs
Self Regulated Solar Powered IoT Based Egg Incubator	Joel Siby; Rani Chacko; Abin Tomy; Arjun Shaji
Conversion of Hand Gesture to Speech for Speech Impaired People	Deep Ramesh Chavan; Maheshkumar H. Kolekar
A Novel Forensic Methodology for SQLite Database Carving	Gargee Handique; Satheesh Kumar S; Jinu S V; Priyanka V S
A Study on Student Cyber safety consciousness in the light of Online Learning	Md Shaik Amzad Basha; Martha M Sucharitha

Special Tracks

Learning Models for LED Lifetime Estimation

Adaptive Machine Learning in the Cloud-Based IoT

M Arun Kumar; Nagarjuna Telagam; Sainath Smart Wearable Glove for the Visually Impaired Person as Reddy Dola; Yaswanth Kumar R; Sai a Third Eve Sushmitha; Muskan Shaik To Increase Security And Privacy, The QAES Encryption Algorithm is Used for Storage of Data for Cloud Geetha Edupuganti Rani Computing. Behavioral Biometric Authentication using Keystroke Rhea Chandok; Vishwajeet Bhoir; Features with Machine Learning Santhanakrishnan Chinnaswamy Localization of the Sensor Nodes in Precision Agriculture Tripti Singh; Abhishek Bajpai using a Hybrid Model Arming Farmers with Smart Farming: The Future of S. Arunmetha; K Prakash; M Gnaneswar Agriculture Reddy; S. Nirmala An integrated medical convertible wheelchair with IoT S.N. Panda; Mamta Janagal; Sanjeev Verma; based surveillance system for patient monitoring: Design Usha Desai and Development Agent-based resource scheduling in a cloud environment Preetham N; Annapurna P Patil using the intelligent technique The impact of transfer learning on lung cancer detection Nishiya Vijayan using various deep neural network architectures Smart AgrIOT: A Machine learning and IOT based Samina Arif Attari; Ashutosh Gupta; Omkar Dhatingan; Yashrajsingh Bais; Atharva Alshi complete farming solution Autoencoder Based FDI Attack Detection Scheme for Amritha G; Vishakh Kh; Manjula G Nair; Jishnu Smart Grid Stability Sankar V C Deep Learning-based Border Surveillance System using Saurav Kumar; Sarthak Mr. Malik; Sumathi P Thermal Imaging Efficient Real-time Traffic Management and Control for Bagesh Kumar; Utkarsh Garg; Soham Mehta; Autonomous Vehicle in Hazy Environment using Deep Amritansh Mishra; Sourav Dey; Aman Gupta; Learning Technique O P Vyas An Architecture Comprising of Convolutional Neural Bagesh Kumar; Priyanshu Sobti; Om Suhas Network (CNN)-Support Vector Machine (SVM) and CNN-Vibhandik; Aditya Kumar; Vaidik Sharma; Op SoftMax For Cricket Shots Classification Vyas Al Ethics Left Atrium Segmentation Using Deep Learning Model Rishav Aryan A New Quantum-Inspired Salp Swarm Optimization Sanjai Pathak; Ashish Mani; Mayank Sharma; Algorithm for Dynamic Optimization Problem Prof Amlan Chatterjee Image Sterilization through Adaptive Noise Blending in Sreeparna Ganguly; Imon Mukherjee Integer Wavelet Transform Comparative Analysis of Conventional and Machine Lokesh J; Savitha G Kini; Mahesha M.G; Anjan

N Padmasali

Advancement in Power Electronics for E-Mobility

Switched Inductor Based DC-DC Converters for Electric Yashwanth Pola; Sravan Nibhanupudi; Naresh vehicles: A Comprehensive Review Karra Electric Vehicle Market Analysis and Trends Namitha Murali Performance Analysis of a Single Phase Integrated Jojin Thomas; Menda Ramesh; Dr Charger for Electric Vehicles Venkadesan A Analysis and Real-Time Implementation of High Power Yedukondalu Guttula; Susovon Samanta Interleaved DC/DC Converter for EV Applications Mitigation of torque ripple in ZSI based BLDC motor with Avismit Dutta; Nilanjan Das; Aurobinda Panda; Direct Torque Control techniques Dr. Sukanta Halder 120 kW BLDC Motor Design for Electric Train Application Nikhil Nagesh Bobe; Vijaya Sanjay Rajguru using ANSYS Maxwell Performance Evaluation of Dynamic Wireless Charging Dr. Kundan Kumar; Kantipudi V V S R System with the Speed of Electric Vehicles Chowdary; Byamakesh Nayak; Vima P Mali Reverse Mode Power Flow Analysis of Coupled-Inductor Based Dual Active Bridge Converter for Electric Vehicle Dr. Kundan Kumar; Varshini Badugu **Applications** Assessment of Dynamic Wireless Charging System with Kantipudi V V S R Chowdary; Dr. Kundan the Variation in Mutual Inductance Kumar Application of Blockchain in the Energy Sector Blockchain based energy transaction in microgrid Leo Raju; Surabhi Surendar; Vimalan Mani Smart Contract based Energy Trading-An overview Athira S Jayavarma New Trends in Topological Development of Power Electronic Converters and its Control for Diversesource fed Green Energy Applications Energy Management In Hybrid Electric Vehicle Pavan H S; Sridhar S; Kodeeswara Kumaran LVRT Capability Enhancement of DFIG with FACT Device Anju M; Dr. Shihabudheen K V; Mija Sj and Superconducting Technology Vadthya Jagan; Dharavath Vijay; Bonagiri Active Switched-network Modified Quasi-Z-Source Inverter Manikanta; Ganta Vamshi Single-Stage Extendable Multi Level Inverter with Bhupesh Goyal; Prerak Bhardwaj; Man Mohan Integration of Step-Up Switched-Capacitor Unit & DC-Link Garg; Senthil Lakshmanan Capacitor Unit ZCS-ZVS Operation of a Double Frequency High-Voltage Preeti Sharma; Prashant Upadhyay; Rajneesh Gain Boost Converter Kumar; Sara Hassanpour An Approach to eliminate the Non-Minimum Phase issue in Preeti Sharma; Rajneesh Kumar; Sara High Gain Converters Hassanpour Fixed Frequency Integral Sliding Mode Control for Santhoshkumar Battula; Man Mohan Garg; Bidirectional Switched Quasi Z-source DC-DC Converter in Anup Kumar Panda; Laxmidhar Senapati Standalone PV Connected System Reduced Capacitor Voltage Based High Boost Active Sudhansu Sekhar Das; Aurobinda Panda; Switch Controlled Z-source Inverter Avismit Dutta MATLAB-based Simplified Mathematical Modelling of Non-Kartik Tank; Man Mohan Garg; Dr. B. L ideal Differential Mode Inverters Narasimharaju PV Connected off-Grid 2-Stage Conversion System with Meghraj Morey; Nitin Gupta; Man Mohan Garg; Proposed High Gain Z-Source DC-DC Converter Manikanta Golla

Indirect Sliding-mode Digital Control for DC-DC Cuk Converter

Laxmidhar Senapati; Anup Kumar Panda; Man Mohan Garg; Santhoshkumar Battula; Rajesh Kumar Lenka

Integration of Distributed Energy Resources and Electric Vehicles in Power Distribution Systems -Challenges and Solutions (DER & EV in PDS)

High Impedance Fault Detection and Control Methods in AC Microgrids: A Review

Remya Mol N; Bindumol E K

Optimal Sudoku, skyscraper and Proposed

Reconfiguration Techniques for Extraction of Maximum

Power under Partial Shading Conditions Continuous Current Featured Quadratic Boost Converter

with Xilinx System Generator-Based PI Controller for Renewable Energy Integration

Energy Management System for Hybrid Renewable **Energy-Based Microgrid**

Impact of DG and D-STATCOM Integration in RDN on Power Losses and Voltage Profile Considering Load

Time Series prediction of Solar Radiation using **Transformer Neural Networks**

Chavan Vinaya Chandrakant; Suresh Mikkili

Kumaravel S; Sija Gopinathan; Gundlapalli Hemanth Kumar

Geethika Rani Bingi; Rami Reddy Ch; Kondalu M; Chandra Sekhar D

Srinivas Nagaballi

Faresh Khan K H; Mohammed Mansoor O; Sishaj P Simon

Intelligent Controller-based Grid Integration of Renewable Energy Sources and Its Challenges

A Reliable Fuzzy Logic Controlled Power Converter Type Fault Current Limiter for Interconnected Power Systems

Naufal N; Dr. Sheeba R; Sindhu D Pillai; Anupama V N; Adarsh P J; Kevin Shalu; Krishnapriya U; Aneeta George

Relay Switch Matrix based Optimized reconfigurable Solar PV Battery Charger

Geno Peter; Samat Iderus; Albert Alexander S

Solar PV Based System for Health Care Applications Intended for Rural Locality

Geno Peter; Albert Alexander S; Samat Iderus

Sai Jyothirmayi Yenuga; Rami Reddy1 Ch;

Kondalu M; Chandra Obbu Sekhar

Energy Consumption Forecasting in Home Energy Management System using Deep Learning Techniques

Mounica Nutakki

PV fed Vehicle Application with Fuzzy Controlled AOF for

Nonlinear Load

J Lakshmi Prasanna; Ekta Goel; Amarjit Kumar; Atul Kumar

Computational Study of Fully Perovskite Double Layer Absorber Based Solar Cell Devices

Lakshmanan Sorakka Arunagiri; Dr. Venkatesh Kumar M; Anuradha Reddy; Kamlesh Naga;

Design and Analysis of Cascaded H Bridge Converter with ANN based SPWM Technique for EV Applications

> Manikandan A; Naresh Kumar B; Pranavan V M; Sri Lasya Pragathi B; Cheng Chin

Emergency Message Dissemination through MQTT over the Internet of Vehicles

Lekshmi R Chandran; Anju Parvathy V S; Ilango Karuppasamy; Manjula G Nair

Adaptive Over Current Relay Protection in a PV Penetrated Radial Distribution System With Fuzzy GA Optimisation.

Intelligence on Chip

High Speed and Low Power DSP Architectures for Barker-13 Radar Pulse Compressor

Anoopkumar K A; Pardhasaradhi Bethi; Vandana G S; Raja K Rajeswari; Pathipati Srihari

An Efficient Low-Power VIP-based VC Router Architecture for Mesh-based NoC

B Naresh Kumar Reddy; Aruru Sai Kumar

Design of In-Memory Computing Enabled SRAM Macro

Kanika Monga; Sunit Behera; Nitin Chaturvedi; S Gurunarayanan

Accelerators for Sparse Matrix-Matrix Multiplication: A

Noble G; Nalesh S; Kala S

Implementation of STDP for Spintronics based SNN using 90nm CMOS Technology

Rose Mary Kuruvithadam; Nalesh S

Word Line Underdrive Technique to Increase Signal Swing and Linearity for In-Memory Compute Applications (IMC) in 65nm LSTP technology

Belal Iqbal; Abhinav Bajoria; Pulkita Gupta; Shubham Goyal; Anuj Grover

Impact Analysis of Communication Overhead in NoC based DNN Hardware Accelerators

In-Memory Computing Based Hardware Accelerator Module for Deep Neural Networks

Neethu K; Enrico Russo; Rose Kunthara; Rekha James; Dr. John Jose

Dhanaraj K J; Ellickal Allen Appukuttan; Emmanuel Thomas Devasia; Harinandan R Nair; Hemanth S; Maleeha Abdul Azzez