

## PAPER PRESENTATION : SESSION - 1

Date : 11 February, 2021 (Thursday)

Time : 01.00 PM - 03.00 PM (IST)

ZOOM Meeting Link : <https://us02web.zoom.us/j/81448898837?pwd=N0FVd1N5YTFvTjYwQ2JJQkRiWXINUT09>

Meeting ID : 814 4889 8837

Meeting Password : icees2021

### Session Chairs

Dr R. Seyezhai, Associate Professor, SSN CE

Dr D. Umarani, Associate Professor, SSN CE

- 003 IMPACTS OF HIGH ROOFTOP PV PENETRATION IN DISTRIBUTION NETWORK AND ITS MITIGATION USING DSTATCOM  
Swaliya Kagadi and Prasad M Joshi
- 009 MITIGATION AND IMPROVEMENT OF POWER QUALITY USING SHUNT SERIES SWITCHED GRID TIED INVERTER (SSS-GTI)  
Sachu Sebastian, Ancy Sara Varghese and Jancy Varghese
- 033 ANALYSIS OF HIGH EFFICIENCY SINGLE-INPUT TRIPLE-OUTPUTS DC-DC CONVERTER WITH COUPLED INDUCTOR  
Asha Jyothi Injeti and Prasanth Kumar Das
- 044 VOLTAGE CONTROLLED INVERTER FOR ISLANDED MODE OF SOLAR PANEL SYSTEM  
Nithara P V
- 049 ENHANCE DYNAMIC PERFORMANCE OF INDUCTION MOTOR WITH PREDICTIVE TORQUE CONTROL SCHEME BASED DIODE CLAMPED INVERTER  
Neelagandan V J and Sivachidambaranathan V
- 062 REAL-TIME PERFORMANCE EVALUATION OF SINGLE PHASE 7 LEVEL Z-SOURCE BOOST INVERTER  
Hanuman Prasad, Kishor V. Bhadane and Parveen Kumar
- 066 COMPARISON OF CURRENT CONTROL METHODS FOR A THREE PHASE SHUNT ACTIVE FILTER  
Sabarimuthu M, Nattuthurai Senthilnathan, N.Priyadharshini, M.Arun Kumar, Nagarjuna Telagam and S.Krithika Sree
- 074 CONTROL OF MODULAR MULTILEVEL CONVERTER UNDER UNEQUAL ARM CAPACITOR VALUES  
Ali Eren Kocamış and Eyup Akpınar
- 081 FUZZY-LOGIC-CONTROLLED-QUASI-Z-SOURCEINVERTER-FED-INDUCTION MOTOR-DRIVE SYSTEM WITH FAST-RESPONSE  
D Hima Bindu, G Sreenivasan and R Kiranmayi
- 086 STANDALONE SOLAR PHOTOVOLTAIC SYSTEM WITH MODIFIED VARIABLE STEP SIZE P&O MAXIMUM POWER POINT TRACKING CONTROLLER SUITABLE FOR PARTIAL SHADING CONDITIONS  
Sarika E P, Josephkutty Jacob, Sheik Mohammed S and Shiny Paul

## PAPER PRESENTATION : SESSION - 2

Date : 11 February, 2021 (Thursday)

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ZOOM Meeting Link : <https://us02web.zoom.us/j/82782838317>

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### Session Chairs

**Dr R. Rengaraj, Associate Professor, SSN CE**

**Dr G. R. Venkatakrishnan, Associate Professor, SSN CE**

- 015** INTEGRATED PV SYSTEM WITH OPTIMAL REACTIVE POWER DISPATCH FOR VOLTAGE SECURITY USING JAYA ALGORITHM  
Tanmay Das, Ranjit Roy and Kamal Krishna Mandal
- 016** FLOWER POLLINATION ALGORITHM FOR REACTIVE POWER DISPATCH USING UNIFIED POWER FLOW CONTROLLER  
G Arun, E Babu, N Lakshmi priya and P Hema
- 017** TECHNICAL AND ECONOMIC EFFICIENCY ANALYSIS OF THE ENERGY STORAGE SYSTEMS USE IN OFF-GRID POWER SYSTEMS  
Stanislav Eroshenko, Gleb Nesterenko, Gleb Prankevich, Roman Chuvashv and Vyacheslav Zyryanov
- 021** OPTIMAL REACTIVE POWER DISPATCH CONSIDERING LOAD UNCERTAINTY FOR SECURITY ENHANCEMENT USING JAYA ALGORITHM  
Tanmay Das, Ranjit Roy and Kamal Krishna Mandal
- 025** SIMULINK MODEL OF ADVANCED FLISR INTENTIONAL ISLANDING FOR SMART DISTRIBUTION NETWORKS  
Senthilmurugan S, A Rathinam, Viswanathan Ganesh and Ajay Krishna V.M
- 036** MODELING AND SIMULATION OF STANDALONE PMSG BASED WIND ENERGY CONVERSION SYSTEM WITH COMMON MODE VOLTAGE SUPPRESSION  
Anbarasan P, Venmathi M and Krishnakumar Vengadkrishnan
- 041** SELECTION OF OPTIMUM CIRCUIT BREAKER FOR A LOW-VOLTAGE INDUSTRIAL POWER DISTRIBUTION SYSTEM  
Hardial Sidhu, Naveen Goel and Saji Chacko
- 053** POWER FACTOR CORRECTION WITH SINGLE STAGE AC-DC NON-ISOLATED ZETA CONVERTER FED SRM DRIVE  
Shunmathi M, Gnanavadeivel J and Jaya Christa St
- 076** POWER MANAGEMENT STRATEGY BETWEEN PV-WIND-FUEL HYBRID SYSTEM  
Thamatapu Eswara Rao, Elango S and Garika Gantaiah Swamy
- 078** A FUNCTIONALLY RECONSTRUCTED AND REFINED POWER FLOW ALGORITHM FOR FACTS DEVICES  
Sriharan Sathish and N. B. Muthu Selvan

## PAPER PRESENTATION : SESSION - 3

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Meeting ID : 897 7852 5051

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### Session Chairs

**Dr V. Rajini, Professor, SSN CE**

**Dr S. Krishnaveni, Associate Professor, SSN CE**

- 029** A LI-FI BASED COLLISION AVOIDANCE SYSTEM FOR VEHICLES USING VISIBLE LIGHT COMMUNICATION  
M. Yuvaraju, P M Benson Mansingh and B Krithika
- 075** CFD SIMULATION ON COOLING SYSTEM OF ELECTRIC VEHICLE BLDC MOTOR  
Sibi Rajagopal Sivakumar, Khaja Najumudeen A and Rajeshkanna R
- 082** COORDINATED ELECTRIC VEHICLES FAST-CHARGING CONSIDERING TIME AND LOCATION MANAGEMENT  
Saleh Al-Thanya and Ahmed Massoud
- 097** NOVEL ENERGY MANAGEMENT POLICY BASED ON FUEL CELL/ BATTERY POWER SOURCES FOR ELECTRIC SCOOTER SUPPLY  
Saied Boumediene, Nasri Abdelfatah, Tedjini Hamza and Chergui Hicham
- 100** ANALYSIS OF BIDIRECTIONAL DC-DC CONVERTER WITH WIDE VOLTAGE GAIN FOR CHARGING OF ELECTRIC VEHICLE  
Oddhi Rakesh and K Anuradha
- 123** A NOVEL INVESTIGATION ON SINGLE-INPUT THREE-OUTPUT DC-DC BUCK CONVERTER FOR ELECTRICAL VEHICLES  
Madaboina Ramesh, Balimidi Mallikarjuna and T Rajasekar
- 130** DESIGN OF AN ISOLATED ONBOARD PLUG-IN ELECTRIC VEHICLE CHARGER  
Angia Sara Daniel and K R M Vijaya Chandrakala
- 158** COMPARISON BETWEEN OPEN AND CLOSED LOOP BATTERY CHARGING TECHNIQUE FOR LITHIUM-ION BATTERY  
Jai Kumar Maherchandani, Bharti Joshi and Abrar Ahmed Chhipa
- 173** SAFETY FEATURE IN ELECTRIC VEHICLE AT PUBLIC CHARGING STATION  
Viswanathan Ganesh, Ajay Krishna V.M and Ajit Ram R.R
- 178** A REVIEW OF DYNAMIC CHARGING OF ELECTRIC VEHICLES  
Kaushalendra Kumar, Sushma Gupta and Savita Nema

## PAPER PRESENTATION : SESSION - 4

Date : 12 February, 2021 (Friday)

Time : 10.30 AM - 12.30 PM (IST)

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### Session Chairs

**Dr R. Ramaprabha, Associate Professor, SSN CE**

**Dr U. Shajith Ali, Associate Professor, SSN CE**

- 088** A NOVEL T-TYPE MULTILEVEL INVERTER FOR ELECTRIC VEHICLE AND GRID-CONNECTED APPLICATIONS  
Suvetha Poyyamani Sunddararaj, Shriram S.Rangarajan, Subashini N, Umashankar Subramaniam, E. Randolph Collins and Tomonobu Senjyu
- 089** PERFORMANCE OF P/PI/PID BASED CONTROLLER IN DC-DC CONVERTER FOR PV APPLICATIONS AND SMART GRID TECHNOLOGY  
Suvetha Poyyamani Sunddararaj, Shriram S.Rangarajan, Umashankar Subramaniam, E. Randolph Collins and Tomonobu Senjyu
- 094** A NEW TOPOLOGY OF DC-DC CONVERTER WITH BIDIRECTIONAL POWER FLOW CAPABILITY COUPLED WITH A NINE MULTILEVEL INVERTER FOR EV APPLICATIONS  
Suvetha Poyyamani Sunddararaj, Shriram S.Rangarajan, Umashankar Subramaniam, E. Randolph Collins and Tomonobu Senjyu
- 114** ANN BASED SELECTIVE HARMONIC ELIMINATION FOR CASCADED H-BRIDGE MULTILEVEL INVERTER  
M Manoharsha, B Ganesh Babu and K Veeresham
- 127** POWER QUALITY ENHANCEMENT IN DISTRIBUTION SYSTEM INTEGRATED WITH RENEWABLE ENERGY SOURCES USING HYBRID RBFNN-TSA TECHNIQUE  
Sathish K R, T Ananthapadmanabha
- 129** FAULT TOLERANT SERIES LC RESONANT CONVERTER TOPOLOGY FOR CONSTANT POWER APPLICATIONS  
B Naga Swetha, Krishna Kumari N, Krishna D.S.G and Poornima S
- 131** PERFORMANCE STUDY OF MPPT ALGORITHMS FOR DC - DC BOOST CONVERTERS FOR PV CELL APPLICATIONS  
H Umesh Prabhu and M.Ramesh Babu
- 137** APPLICATIONS OF MULTILEVEL INVERTER FOR GRID INTEGRATION OF RENEWABLE ENERGY SOURCES  
Kalyan Konala, Amit Ojha and Rishik Singh
- 146** FAULT TOLERANT ABILITY OF A MULTI LEVEL INVERTER FED THREE PHASE INDUCTION MOTOR FOR WATER PUMPING APPLICATION  
M.Narasimha Rao, Karthick N and A. Madhukar Rao
- 151** DESIGN AND MODELLING OF A SOLAR INTERFACED HIGH VOLTAGE GAIN INTELLIGENT CONTROLLED COUPLED INDUCTOR SWITCHED CAPACITOR (CISC) DC/DC CONVERTER FOR SUBMERSIBLE PUMPS IN AGRICULTURAL APPLICATIONS  
Laxmi Sumabindu M, Max Savio F and Sasikumar M

## PAPER PRESENTATION : SESSION - 5

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### Session Chairs

**Dr T. S. Prasanna, Professor, University Visvesvaraya College of Engineering**

**Dr K. Usha, Associate Professor, SSN CE**

- 080** LOSS MINIMIZATION OF DISTRIBUTION SYSTEM VIA NETWORK RECONFIGURATION USING META-HEURISTIC ALGORITHM  
Neha Smitha Lakra and Baidyanath Bag
- 084** TESTING THE FEASIBILITY OF DYNAMIC MODE DECOMPOSITION FOR SHORT TERM LOAD FORECAST  
Tarik Namas, Sejla Dzakmic and Izudin Dzafic
- 085** DESIGN AND IMPLEMENTATION OF VOLTAGE VAR CONTROL IN CLOSED LOOP MODE: BENEFITS AND PITFALLS  
Amer Smajkic, Izudin Dzafic and Tarik Namas
- 087** ADAPTIVE PEAK LOAD SCHEDULING FOR DOMESTIC LOADS IN THE FUTURE ELECTRICITY MARKET  
Priyadharshini N, Dhivya K, Gopala Krishnan S.S, Dhivya Priya M and Balasubramani N
- 092** SHORT-TERM LOAD FORECASTING USING BOOTSTRAP AGGREGATION BASED ENSEMBLE METHOD  
Jayati Vaish, Stuti Shukla Datta and Seethalekshmi K
- 098** PERFORMANCE IMPROVEMENT OF STANDALONE BATTERY INTEGRATED HYBRID SYSTEM  
Yashwant Joshi, Jai Kumar Maherchandani, Vinod Kumar Yadav, Raunak Jangid, Shripati Vyas and Sasanka Sekhor Sharma
- 107** TECHNOLOGY REVOLUTION IN THE INSPECTION OF POWER TRANSMISSION LINES - A LITERATURE REVIEW  
Sriram Anbalagan and Sudhakar T D
- 109** PELTIER THERMO-ELECTRIC GENERATOR BASED STANDALONE MICRO-POWER SUPPLY SYSTEM  
Bharath Yk, Shruthi K.H. and Dhavala R.K.
- 111** VAR OPTIMIZATION IN MESH NETWORK DURING DIFFERENT LOADING CONDITIONS  
Neha Lakra and Baidyanath Bag
- 112** ENHANCING THE CONTROL OVER HYBRID MICRO GRID USING CUCKOO SEARCH ALGORITHM  
Gollapudi Pavan and R Vanitha

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### Session Chairs

**Dr P. Saravanan, Associate Professor, SSN CE**

**Dr V. S. Nagarajan, Associate Professor, SSN CE**

- 047** DECENTRALIZED ENERGY TO POWER RURAL HOMES THROUGH SMART CONTRACTS AND CARBON CREDIT  
Gnana Lakshmi T C and Gomathi Thiyagarajan
- 056** REVERSE PUMPING BASED SMART AGRICULTURAL SYSTEM  
Prakash A, Suresh Kumar S, Vignesh O and Vasudevan K
- 069** CUSTOMISED COMPRESSED AIR ENERGY STORAGE MODEL FOR RURAL HOUSEHOLD APPLICATION  
Shravan Nayak, Manjula Sureban and Mrityunjaya Kappali
- 095** MONITORING AND CONTROL OF PV MICROGRID USING IOT  
Vrishank Tiwari, Suman Kumari and Priyanka Priyadarshini Sahoo
- 194** ANALYSIS OF HYBRID SOLENOID COUPLER AS TRANSMITTER WITH RECTANGULAR AND CIRCULAR COUPLER AS RECEIVER FOR WIRELESS POWER TRANSFER  
Sivagami K, Ganji V G Teja Prathap, Janamejaya Channegowda and Damodharan P
- 200** INVESTIGATION ON CYBER-ATTACKS AGAINST IN-VEHICLE NETWORK  
Vishnu Kumar S, Aloy Anuja Mary, Suresh P and Uthirasamy R
- 206** EXECUTION OF BATTERY CHARGING FOR ELECTRIC VEHICLES USING FIVE LEVEL METHODS  
Vinoth Kumar K, Mahesh M, Gunapriya B, Saravanakumar R and Gowdham Kumar S
- 220** TOPOLOGICAL REVIEW FOR BATTERY- SUPERCAPACITOR HYBRID ENERGY STORAGE  
Keerthi Susan John and Jarin T
- 223** PERFORMANCE ANALYSIS OF INVERTERS FOR THE APPLICATION OF ELECTRIC VEHICLES  
Nivedita J, Manoharan P S and Deepamangai P
- 350** DESIGN AND SIMULATION OF HYBRID AC/DC MICRO GRID SYSTEM  
Paruchuri Chandra Babu Naidu and Umashankar Subramaniam

## PAPER PRESENTATION : SESSION - 7

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### Session Chairs

**Dr M. Senthil Kumaran, Associate Professor, SSN CE**

**Dr K. Murugesan, Associate Professor, SSN CE**

- 163 DESIGN AND ANALYSIS OF PID, TYPE II AND TYPE III CONTROLLERS FOR FOURTH ORDER BOOST CONVERTER  
Saurav S and Arnab Ghosh
- 168 FUZZY CONTROLLED MULTIPLE INPUT DC-DC CONVERTER FOR RENEWABLE ENERGY HARVESTING  
Umayal S.P, Selvakumar P and Ramkumar V
- 180 INVESTIGATION ON PHOTOVOLTAIC SYSTEM BASED ASYMMETRICAL MULTILEVEL INVERTER FOR HARMONIC MITIGATION  
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- 225 COMPARATIVE STUDY OF PI AND FUZZY CONTROLLER FOR SELF-LIFT CUK CONVERTER  
Jeyaprakash N and Sudhakar T D
- 250 GRID CONNECTED PV SYSTEM USING MULTILEVEL INVERTER  
Deepak Kumar Singh, Saibal Manna and Ashok Kumar Akella
- 284 INVESTIGATION OF SINGLE STAGE PFC INTEGRATED RIPPLE FREE LED DRIVER WITHOUT ELECTROLYTIC CAPACITOR  
Sridhar Makkapati, Seyezhai Ramalingam, Sridhar Srinivasan, Srikirthi S and Swetha S
- 290 A SOLO SOURCE BASED 27-LEVEL ASYMMETRICAL CASCADED H-BRIDGE CONVERTER FED OPEN ENDED PMSM DRIVE  
Kannan S A, Jagadanand G and Nikhil Sasidharan
- 295 SENSORLESS CONTROL OF Z SOURCE INVERTER FED BLDC MOTOR DRIVE BY FOC - DTC HYBRID CONTROL STRATEGY USING FUZZY LOGIC CONTROLLER  
Muthamizhan Thiagarajan, Saravanan P and Ramaprasad Maharana
- 334 COMPARISON OF COUPLED-INDUCTOR BASED INTERLEAVED HIGH GAIN DC-DC CONVERTER TOPOLOGIES  
A.S. Valarmathy and M Prabhakar
- 341 FPGA BASED REAL TIME SIMULATION OF POWER CONVERTERS  
R Sriganesh, M Pandikumar and R Sundareswaran

## PAPER PRESENTATION : SESSION - 8

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### Session Chairs

**Dr R. Deepalaxmi, Associate Professor, SSN CE**

**Dr S. Tamil Selvi, Associate Professor, SSN CE**

- 113** APPLICATION OF CONTROL STRATEGY TO DC MICRO GRIDS: A SURVEY  
Priyanka Priyadarshini Padhi and S P Mishra
- 122** INVESTIGATION OF WIND RENEWABLE ENERGY SYSTEM IN MUPPADAL WIND POWER STATION  
S.Vinoth John Prakash and P.K Dhal
- 135** OPTIMIZATION OF CAPACITOR LOCATION AND SIZING IN DISTRIBUTION NETWORK - COST BENEFIT BASED STUDY  
Cheepathi Kumar Reddy, Gopalan Srinivasan and B.S. Lokasree
- 138** REVIEW ON VIRTUAL SYNCHRONOUS GENERATOR MODEL AND CONTROL FOR IMPROVING MICROGRID STABILITY  
Mohammad Frasetyo, Fransisco Danang Wijaya and Eka Firmansyah
- 139** SERVICE RESTORATION IN DISTRIBUTION SYSTEM USING BREADTH-FIRST SEARCH TECHNIQUE  
Swaroop K P, Durga Prasad Garapati, Praveen Kumar Nalli and Sarath Duvvuri
- 144** FEASIBILITY STUDY BY DEMAND SIDE ENERGY MANAGEMENT FOR SELECTED REMOTE AREA  
Dhavala Rk, Suresh H N and Rajanna S
- 147** OBSERVABILITY OF SYSTEM USING OPTIMAL PMUS LOCATION  
Shiv Shankar, Vishal Rathore, K B Yadav and Alok Priyadarshi
- 148** FAULT DETECTION IN GRID CONNECTED PV SYSTEM USING ARTIFICIAL NEURAL NETWORK  
K. Soffiah, P S Manoharan and P. Deepamangai
- 153** OPTIMAL CAPACITOR ALLOCATIONS USING FRUIT FLY ALGORITHM FOR POWER LOSS MITIGATION  
Iswariya Mani and Yuvaraj T
- 166** SMART ENERGY METERING FOR COST AND POWER REDUCTION IN HOUSE HOLD APPLICATIONS  
Komathi C, Durgadevi S, Thirupurasundari K, Sree Sahithya T R and S. Vignesh



## PAPER PRESENTATION : SESSION - 9

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### Session Chairs

**Dr M. Balaji, Associate Professor, SSN CE**

**Dr Mrunal Deshpande, Associate Professor, SSN CE**

- 051** CONDITION MONITORING AND FAULT DIAGNOSIS OF INDUCTION MOTOR - AN EXPERIMENTAL ANALYSIS  
Abdelelah Almounajjed, Ashwin Kumar Sahoo, Mani Kant Kumar and Mhamad Waleed Bakro
- 055** FAULT TOLERANT INVERTER TOPOLOGY FOR A PMSM DRIVE WITH HYSTERESIS CURRENT CONTROLLER USING MTPA CONTROLLER  
Krishna Kumari N, Nireekshana T, Sasi Kumar G and Ravi Kumar D
- 090** INVESTIGATION ON THE OCCURRENCE OF FERRORESONANCE WITH THE VARIATION OF CORE LOSS OF A TRANSFORMER USING NONLINEAR DYNAMIC MODEL OF THE TRANSFORMER  
Rajat Shubhra Pal and Madhab Roy
- 117** TRANSFORMER BREATHER THERMAL IMAGE DECOMPOSITION FOR FAULT DIAGNOSIS  
R Vidhya, P Vanaja Ranjan and N R Shanker
- 136** DESIGN AND SIMULATION OF SELF ADAPTIVE DIFFERENTIAL PROTECTION FOR A POWER TRANSFORMER  
Mageshwari Sannasy and Sandeep Konde
- 152** TRANSFORMER HEALTH MONITORING SYSTEM USING ANDROID DEVICE  
Suja K and Yuvaraj T
- 237** A MODIFIED TORQUE CONTROL TECHNIQUE FOR LOAD SHARING APPLICATION USING V/F INDUCTION MOTOR DRIVES  
Pratik Sarode, Venkateswara Reddy and Deepak Sonje
- 238** FAULT DIAGNOSIS AT STARTUP OF INDUCTION MOTOR DRIVE USING WAVELETS  
P Chandrasekar, K. Karunanithi, R. Sreedhar, D Venkata Ramana and R Bhavani Teja
- 360** PSO-GRNN BASED OPTIMAL DESIGN OF SWITCHED RELUCTANCE MOTOR FOR ELECTRIC VEHICLE  
P. Saravanan and S. Anbuselvi
- 361** DESIGN AND IMPLEMENTATION OF AN ADAPTIVE FUZZY LOGIC SPEED CONTROLLER FOR SRM DRIVE  
P. Saravanan and S. Anbuselvi

## PAPER PRESENTATION : SESSION - 10

Date : 13 February, 2021 (Saturday)

Time : 08.45 AM - 10.45 AM (IST)

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### Session Chairs

**Dr V. Saravanan, Professor & Head, Arunai Engineering College**  
**Dr Alagu Dheeraj, Associate Professor, SSN CE**

- 171 EXAMINATION OF HIGH GAIN INTERLEAVED BOOST DC-DC CONVERTER FOR AUXILIARY POWER SUPPLY SYSTEMS  
Seyezhai Ramalingam and Indumathi K
- 172 OPTIMAL ALLOCATION OF CAPACITOR BANKS IN DISTRIBUTION NETWORKS USING CUCKOO SEARCH ALGORITHM  
Cholapandian V, Yuvaraj T and Devabalaji K R
- 183 FUZZY LOGIC BASED FAULT DETECTION AND CLASSIFICATION SCHEME FOR SERIES FAULTS IN SIX PHASE TRANSMISSION LINE  
Ebha Koley, Subhojit Ghosh and Tirupati Rao
- 190 OPTIMAL VOLTAGE IMBALANCE COMPENSATION IN ISLANDED MICROGRID BY USING WHALE OPTIMIZATION TECHNIQUE  
B Mothi Ram and Ganesh A
- 192 DC-MICROGRID VOLTAGE REGULATION USING DUAL ACTIVE BRIDGE BASED SVR  
Abrar Ahmed Chhipa and Vinod Kumar
- 289 COMPUTATIONALLY FAST PARTICLE SWARM OPTIMIZATION POWER SYSTEM STABILIZER FOR POWER SYSTEMS  
Subash Ranjan Kabat, Chinmoy Kumar Panigrahi and Ajit Kumar
- 297 SHORT-TERM WIND SPEED FORECASTING USING ENSEMBLE LEARNING  
Karthikeyan M and Rengaraj R
- 300 FUTURISTIC BIGDATA FRAMEWORK WITH OPTIMIZATION TECHNIQUES FOR WIND ENERGY RESOURCE ASSESSMENT AND MANAGEMENT IN SMART GRID  
R. Krishnamoorthy and K. Udhayakumar
- 320 AN OVERVIEW OF BOOTSTRAP CONVERTER FOR GRID CONNECTED WIND ENERGY CONVERSION SYSTEM  
A Santhi Mary Antony and D Godwin Immanuel
- 342 WINDFARM OPTIMIZATION USING NELDER-MEAD AND PARTICLE SWARM OPTIMIZATION  
Bhavya Bhardwaj, Jaiharie J, Sorabh Dadhich R, Syed Ishtiyah Ahmed and Ganesan M

## PAPER PRESENTATION : SESSION - 11

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### Session Chairs

**Dr R. Leo, Associate Professor, SSN CE**

**Dr Anitha Roseline, Associate Professor, SSN CE**

- 014** USING DEEP LEARNING FOR ASSESSING CYBERSECURITY ECONOMIC RISKS IN VIRTUAL POWER PLANTS  
V Sampath Kumar and Lakshmi Narasimhan
- 050** ANDROID APPLICATION CONTROLLED WATER TRASH BOT USING INTERNET OF THINGS  
Sri Hari S, Rahul R, Umesh Prabhu H and Balasubramanian V
- 054** A MACHINE LEARNING BASED IMPLEMENTATION OF PRODUCT AND SERVICE RECOMMENDATION MODELS  
Suja Cherukullapurath Mana and Sasipraba T
- 073** LORAWAN BASED CATTLE MONITORING SMART SYSTEM  
Joshitha C, Kanakaraja P, Divya Bhavani Mallela, Naga Venkata Raman Yerramsetti and Sravani Tadepalli
- 099** AN EYE ON HYDROPONICS: THE IOT INITIATIVE  
Joshitha C, Kanakaraja P, Kovur Sarath Kumar, Polavarapu Akanksha and Guduru Satish
- 159** DEVELOPMENT OF LPG LEAKAGE DETECTION ALERT AND AUTO EXHAUST SYSTEM USING IOT  
K Gavaskar, D Malathi, G Ravivarma and A Arulmurugan
- 167** FRAUD DETECTION AND PREVENTION USING MACHINE LEARNING ALGORITHMS: A REVIEW  
G Jaculine Priya and S Saradha
- 307** STATE OF THE ART POWER PROFILING TECHNIQUES  
Maaz Ahmed and Waseem Ahmed
- 324** IOT BASED PREDICTIVE MAINTENANCE OF ELECTRICAL MACHINES IN AIRCRAFT  
S Vishnukarthik, V Akshaya and P Sriramalakshmi

## PAPER PRESENTATION : SESSION - 12

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### Session Chairs

**Dr S. D. Sundarsingh Jebaseelan, Professor, Sathyabama Institute of Science and Technology**  
**Dr A. Sivakumar, Associate Professor, Panimalar Engineering College**

- 034** SIMULATING THE EFFECT OF ELECTRO OPTIC OR ACOUSTO OPTIC MODULATOR ALONG WITH NOISE IN SPICE  
Aditi Datta, Anjan Mukherjee, Anjan.K. Ghosh and Champa Nandi
- 045** ULTRAVIOLET SANITIZATION OF WALLET USING UVC LED'S  
Mallidi Manikantha Reddy, S.Uma Maheswari and Vijayananth S
- 091** FINITE ELEMENT ANALYSIS OF COMPOSITE WIND TURBINE BLADES  
Appadurai M and Fantin Irudaya Raj E
- 103** CORROBORATION OF SKIN DISEASES MELANOMA, VITILIGO & VASCULAR TUMOR USING TRANSFER LEARNING  
Neha Agrawal and Sagaya Aurelia
- 110** CUSTOMIZED ADAPTIVE GRADIENT AND ORIENTATION HISTOGRAM FOR FACES ALTERED BY FACE SURGERY  
Archana H. Sable
- 157** RADAR BASED ACTIVITY RECOGNITION USING CNN- LSTM NETWORK ARCHITECTURE  
A. Helen Victoria and G. Maragatham
- 203** ADVANCED HOME AUTOMATION USING RASPBERRY PI AND MACHINE LEARNING  
Leo Raju, Sowmya Gopalakrishnan, Srividhya S, Surabhi S, Retika M K and Reshmika Janani M
- 204** IOT BASED DEMAND RESPONSE MANAGEMENT IN MICROGRIDS  
Leo Raju, Swetha A, Shruthi C K and Shruthi J
- 245** DEEP LEARNING APPROACHES FOR DISEASE DETECTION  
Abirami P and Nirmala Sugirtha Rajini S

## PAPER PRESENTATION : SESSION - 13

Date : 13 February, 2021 (Saturday)

Time : 01.00 PM - 03.00 PM (IST)

ZOOM Meeting Link : <https://us02web.zoom.us/j/81448898837?pwd=N0FVd1N5YTFvTjYwQ2JJQkRiWXINUT09>

Meeting ID : 814 4889 8837

Meeting Password : icees2021

### Session Chairs

**Dr P. Somasundaram, Professor, CEG, Anna University**

**Dr. D. Silas Stephen, Professor, Panimalar Engineering College**

- 026 AUTOMATED PHYSIOLOGICAL DATA ACQUISITION IN INTENSIVE CARE UNITS USING A NOVEL SENSOR BED SIMULATION  
Ismail Khram, Wassim Itani and Ahmad M El-Hajj
- 035 A COMPARATIVE STUDY - FOG ISSUES AND ITS SOLUTIONS  
Hema M and Prayla Shyry S
- 037 DEVICE MODELLING AND PERFORMANCE ANALYSIS OF CH<sub>3</sub>NH<sub>3</sub>PBX<sub>3</sub> (X I, BR, CL) BASED PEROVSKITE SOLAR CELLS WITH SNO<sub>2</sub> AND CUO AS TRANSPORT LAYERS  
Deepthi Jayan K and Varkey Sebastian
- 038 LOW VOLTAGE CMOS SWITCH CAPACITOR CIRCUIT  
Ambresh Patel and Ritesh Sadiwala
- 042 PERFORMANCE ANALYSIS OF PRIVACY PRESERVING DISTRIBUTED DATA MINING BASED ON CRYPTOGRAPHIC TECHNIQUES  
Venkatesh Kumar Marimuthu and Lakshmi C
- 052 REVERSIBLE COLOR IMAGE WATERMARKING SCHEME BASED ON CONTOURLET TRANSFORM AND PRINCIPAL COMPONENT ANALYSIS  
Reena Thomas and Sucharitha M
- 064 CODE CONTROLLER EMBEDDED WITH 2-D PLOTTER FOR GARMENT EMBROIDERY MACHINE  
Gayathri K, Nagapriya B and Joby Titus T
- 096 SPECTRAL CLUSTERING OF EVENTS IN SOCIAL MEDIA FLOOD IMAGES BASED ON MULTIMODAL ANALYSIS  
Pavithra S S, Chitrakala S and Bhatt C M
- 181 HIGH VOLTAGE HIGH FREQUENCY PULSE-GENERATOR FOR CANCER CELL TREATMENT APPLICATION  
Krishna Kumari N, Ravi Kumar D, Pramodh Kumar Reddy C, Namratha K, Sai Naga Aasrith M and Bala Manish Reddy T
- 303 CONTROL OF POLYMERIC OUTDOOR INSULATORS STRESS BY USING NONLINEAR FIELD GRADING MATERIALS  
M-Ramez Halloum, Ashwin Sahoo and Youssef Razouk

## PAPER PRESENTATION : SESSION - 14

**Date :** 13 February, 2021 (Saturday)

**Time :** 01.00 PM - 03.00 PM (IST)

**ZOOM Meeting Link :** <https://us02web.zoom.us/j/89778525051?pwd=Tx4RG15YkxPYTFERkN4YWJWbzQyZz09>

**Meeting ID :** 897 7852 5051

**Meeting Password :** icees2021

### Session Chairs

**Dr M. Devesh Raj, Associate Professor, SSN CE**

**Dr M. Pandikumar, Associate Professor, SSN CE**

- 102** MATHEMATICAL MODELING AND SIMULATION ANALYSIS OF ISOLATED HYBRID AC/DC MICROGRIDS  
V. Thiyagarajan
- 319** DESIGN OF REGULATOR CIRCUIT FOR MEDICAL EQUIPMENTS USING POWER ELECTRONICS CONVERTER  
Umarani Devaraj, Seyezhai Ramalingam and Maheswari E
- 351** DESIGN OPTIMIZATION OF CORONA AND GRADING RING FOR POLYMER INSULATOR OF DIFFERENT VOLTAGE CLASSES  
Archana C and Usha K
- 352** TEXTILE BASED CLOTH FOLDING MACHINE  
Usha K, Palagani Meghana, Pelluru Manaswini and NJ Raksshitha
- 355** OPTIMAL DESIGN AND ANALYSIS OF FUEL CELLS FOR LOW POWER APPLICATIONS  
R. Tamizh Selvan, V. Thiyagarajan and M. S. Vivek
- 362** IMPLEMENTATION OF 15 LEVEL CASCADED H-H-T MULTILEVEL INVERTER  
R. Ramaprabha, V. Aadhavan, K. Arun and V. Arun