

2016 International Conference on Emerging Trends in Engineering, Technology and Science (ICETETS 2016)

**Pudukkottai, India
24-26 February 2016**



**IEEE Catalog Number: CFP16TWD-POD
ISBN: 978-1-4673-6726-4**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP16TWD-POD
ISBN (Print-On-Demand):	978-1-4673-6726-4
ISBN (Online):	978-1-4673-6725-7

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Contents

Paper ID	Title of the Paper with authors	Page No
CE06	Experimental Study on Partial Replacement of Coarse Aggregate by Coconut Shell <i>B.Soundara,M.Mahalakshmi, V.Anandkumar, R.Arivazhagan</i>	N/A
CE07	Optimization of Structural Lightweight Concrete for use in Precast Construction <i>S.Geetha, M. Selvakumar</i>	N/A
CE12	Non-Aqueous Phase Dissolution in Saturated Porous Media under Various Initial Conditions <i>M. Vasudevan</i>	11
CE09	Effective Management of Solid Waste in Pudukkottai, India <i>P. Kavi Priya Devi, M. Hariharan, D. Subasri</i>	N/A
CE10	Recent Trends in Highway Engineering Intelligent Transportation System <i>R. Saravanan, M. John Finney, R. Prithiviraj</i>	N/A
CS04	A study on detecting and resolving major issues in wireless sensor network by using data mining and soft computing techniques <i>R. Sunitha, J. Chandrika</i>	21
CS06	Comparative study of scheduling algorithms to enhance the performance of virtual machines in cloud computing <i>M N Kavyasri, B. Ramesh</i>	27
CS59	Playback protection in http live streaming <i>Ashwani Parashar, Swapnesh Taterh</i>	32
CS08	A novel method: Ontology-based security requirements engineering framework <i>P. Salini, S. Kanmani</i>	36
CS09	Movie recommender system using item based collaborative filtering technique <i>Lakshmi Tharun Ponnamm, Sreenivasa Deepak Punyasamudram, Siva Nagaraju Nallagulla, Srikanth Yellamati</i>	41
CS34	Mongodb and Oracle NoSQL: a technical critique for design decisions <i>V. Anand, Ch. Mallikarjuna Rao</i>	46
CS28	Competitor driven development hybrid of extreme programming and feature driven reuse development <i>Vrajesh Pankaj Doshi, Vandana Patil</i>	50
CS35	Performance comparison of cloudlet scheduling policies <i>V.Geetha, R.Aruna Devi, T. Ilavenil, S.Marjana Begum, S. Revathi</i>	56
CS36	Survey on security mechanisms for public cloud data <i>Geetha V, Laavanya N, Priyadharshini S, Sofeyakalaimathy C</i>	63
CS37	Homomorphic encryption for secure information retrieval from the cloud <i>V. Anand, Suresh Chandra Satapathy</i>	71
CS42	Parametric analysis of a novel reconfigurable wireless Sensor Network architecture <i>Vaddi Naga Padma Prasuna, A Valarmathi, J Arputha Vijaya Selvi</i>	76
CS46	Fingerprint combination using extraction of minutiae position and orientation <i>Prashant Bhaskarrao Patil, Nitin N. Patil</i>	81
CS49	A hybrid secure routing scheme for MANETS <i>V. Sesha Bhargavi, M.Seetha, S.Viswanadharaju</i>	87
CS65	Writer's identification by using word reason feature transform <i>Prashant Madhukar Patil, Rajanikant B. Wagh</i>	92
CS67	SINR based hybrid multipath routing protocol for MANET <i>Jesin Mary Chacko, K.B.Senthilkumar</i>	96

CS61	A secure, efficient and lightweight user authentication scheme for WLAN <i>Amit Kumar , Hari Om</i>	102
CS68	Automatic localization and recognition of perspectively distorted text in natural scene images <i>Annmaria Cherian, Sanju Sebastian</i>	111
CS80	An energy efficient GA-based algorithm for clustering in wireless sensor networks <i>Nabajyoti Mazumdar, Hari Om</i>	117
CS82	Finite state markovian model for trustworthy reliable communication in dynamic reconfigurable wireless sensor network architecture <i>Vaddi Naga Padma Prasuna, A Valarmathi, J Arputha Vijaya Selvi</i>	124
CS81	Concept type and relationship type classification based approach for identifying and prioritizing Potentially interesting concepts in ontology matching <i>S.Ranjini, K.Saruladha</i>	130
CS20	Analysis of network performance of mobile WSN using game theory <i>T.Preethiya, S.Durairaj</i>	135
CS13	An efficient framework for heart disease classification using feature extraction and feature selection technique in data mining <i>R.Kavitha, E.Kannan</i>	139
CS15	Recognition and anticipation of cancer and non-cancer prophecy using data mining approach <i>R.Kaviasasi, A.Valarmathi</i>	144
CS23	On intuitionistic fuzzy soft set and its application in group decision making <i>B.K Tripathy, RK Mohanty, Sooraj T.R.</i>	148
CS18	Efficient mobile transporter in WSNs lifetime enhancement <i>S G Susila, J Arputha Vijaya Selvi</i>	153
CS19	Data gathering cluster-based approach for in-network aggregation <i>R.Vinodha, S. Durairaj</i>	159
CS25	A fair survey on Internet of Things (IoT) <i>M. Joharan Beevi</i>	163
CS26	Breast and nipple line localization for adult image identification in online social networks <i>V. M. Priyadharshini, A. Valarmathi</i>	169
CS29	Extracting most significant data about the user queries from the search engine by K-means ++ algorithm <i>A. Gomathi , K. Raja</i>	174
CS62	A case study on memory efficient prediction models for web prefetching <i>Chithra D Gracia, S. Sudha</i>	179
CS63	Real time streaming fast data and proposed framework for disaster alerts <i>Prasannakumari.V</i>	185
CS70	Double constrained genetic algorithm for ECG Signal classification <i>E. Ramanujam, S. Padmavathi</i>	188
CS73	Multi-agent framework for cloud service composition <i>S.Padmavathi, V.P.Dharani,S.Maithrreya, M. Mansaa Devi, S.Durairaj</i>	193
CS64	Hardware implementation of intruder recognition in a farm through wireless sensor network <i>Shobhit Kumar Nagpal, P. Manojkumar</i>	198
CS79	Prevention of phishing attacks in voting system using visual cryptography <i>S.Nisha, A.Neela Madheswari,</i>	203
CS86	Survey on access control issues in cloud computing <i>R Charanya, M Aramudhan</i>	207

CS31	STEP - A career zone android APP for higher secondary education <i>M.Sharmila Begum,P.Aruna,N.Vetrivelan</i>	211
CS90	Recovering system recital by noticing wormhole attack <i>A.Akila, D.Mahalakshmi,C.Saranya</i>	213
CS41	Three factor biometric authentication for spiraling of security <i>Diana Judith.I,G.J.Joyce Mary,Mary Susanna.M</i>	218
CS75	Secure enhanced energy efficient two tier scheme <i>N.Deepika, V.Violet Julie,</i>	221
CS69	Minimal support based multi-view face detection issues and implementation <i>Kanmani.N, Mohan Babu.T</i>	227
CS71	An innovative performance analysis of multi attribute DHT queries in resource discovery by H-LORM techniques <i>K.Sathyalakshmi, M. George Fernandez</i>	230
CS76	Secure mobile agent in m-commerce over internet <i>M.Malathy, Jasmine Smilee, J. Niranjan Samuel</i>	236
CS84	Web usage mining using fuzzy association rule <i>K. Abhirami</i>	241
CS85	Scheduling in mobile grid for telemedicine application using improved ABC algorithm <i>T.Vigneswari, M.A.Maluk Mohamed</i>	245
CS91	Survey of cyber security and laws for Social Media Sites (SMS) <i>M.Malathy,J. Arputha Vijaya Selvi</i>	N/A
EC12	Robust ISAR image classification using abridged shape matrices <i>Hari Kishan Kondaveeti, Valli Kumari Vatsavaiyi</i>	254
EC14	Multiple hierarchical decision on neural network to predict human age and gender <i>Dileep M R, Ajit Danti</i>	260
EC43	Performance improvement of triple band truncated spiked triangular patch antenna <i>Sherry Ann Sacharias, S. Suganthi</i>	266
EC17	Design and implementation of an embedded system to detect military fratricide crisis <i>Padma Prasada, Sathisha Shetty</i>	270
EC25	A novel predistorter based on MPSO for power amplifier linearization <i>Bipin P.R., Dr. P.V. Rao and Anoob Issac</i>	275
EC33	Novel pipelined neural network architecture for image compression and decompression in terms of low power and optimized area <i>Murali Mohan. S, P. Sathyanarayana</i>	281
EC34	Iris recognition using contrast enhancement and spectrum-based feature extraction <i>Deepanshu Kumar, Mahati Sastry, Manikantan K</i>	288
EC35	Novel digital image watermarking using DWT-DFT-SVD in YCbCr color space <i>Advith J, Varun K R, Manikantan K</i>	295
EC36	Impact of underlap channel on Analog/RF performance of dopant segregated schottky barrier MOSFET on ultra thin body SOI <i>Sumit Kale,Shashank Banchhor,P. N. Kondekar</i>	301
EC39	Smart motorcycle security System <i>Sagar Patil, Medhini Ganesh Hegde, SaikatBhattacharjee, Rajeshwari B.C</i>	307
EC40	A 5-bit, 0.08mm ² area flash analog to digital converter Implemented on cadence virtuoso 180nm <i>K Ravi kiran, Aman kumar,Dr A Srinivasula Reddy,M. Sarojini</i>	311

EC46	Performance analysis of a New Time-Varying LMS(NTVLMS) adaptive filtering algorithm <i>Siddappaji, K L Sudha</i>	317
EC 49	ANN based pattern generation, design and simulation of broadband fractal antenna for wireless applications <i>S.Suganthi, S.Raghavan,</i>	325
EC51	Optimal linear block code modeling and performance analysis over various channels for use in wireless communications <i>P.Ratna Kamala, R.V.S.Satyanarayana</i>	329
EC53	A study on TV-white space <i>Supritha</i>	335
EC54	ECG signal filtering using DWT Haar wavelets coefficient techniques <i>Vijendra V,Meghana Kulkarn</i>	339
EC57	Vot-El: three tier secured state-of-the-art EVM Design using pragmatic fingerprint detection annexed With NFC enabled voter -Id card <i>Anooshmita Das.Manash Pratim Dutta ,Subhasish Banerjee,</i>	345
EC62	A high-performance and high-precision sub-pixel motion estimator-interpolator for real-time HDTV(8K) in MPEGH / HEVC coding <i>Mani Laxman Aiyar , Ramesha Kenchappa</i>	351
EC65	Ear detection using active contour model <i>Deepak R, Abhishek Vasant Nayak, Manikantan K</i>	359
EC67	Carrier recovery and reuse in full-duplex radio Over fiber 60GHz millimeter-wave system based on frequency quadrupling <i>Chandu C.B, Joseph Zacharias, Vijayakumar Narayanan</i>	366
EC73	Low-power FPGA based security system for cabinet protection <i>P.V Gopikrishna, Harsh Kamath, Prasad Sogolad, G.H Kulkarni</i>	370
EC86	Technologies for segregation and management of solid Waste: A review <i>Siddappaji, K Sujatha,Radha R C</i>	374
EC89	A novel approach for reversible realization of 8-bit adder-subtractor circuit with optimized Quantum cost <i>Vandana Shukla, O. P. Singh, G. R. Mishra R. K. Tiwari</i>	380
EC90	A novel approach for detection of diabetic Macular edema <i>Anu Johny, Abraham Thomas</i>	384
EC105	Optimized mathematical model for cell receivers Running in spatially problematic multi path Channels for wireless systems in smart antennas <i>Hadimani H.Cl. Hulkoti- Mrityunjaya V Latte,V.R.Sarma Dhulipala, S.Baskar</i>	388
EC106	Design and implementation of efficient low-power and compact CODEC system for portable devices <i>Udara.Yedukondalu, Srinivasarao Udara, A. Jhansi Rani, Tejomurthy P H S</i>	395
EC107	Fabrication and characterization of NEMS based piezoresistive cantliver for the detection of change in resistance with time at different experimental conditions using omniscant <i>P H S Tejo Murthy, Srinivasarao Udara</i>	398
EC29	A performance improved compact size microstrip antenna loaded with CSRR for GSM, WLAN/Wimax and WAVE applications <i>Nitesh Jha, R. Pandeewari , S. Raghavan</i>	403
EC32	Agricultural crop predictor and advisor using ANN for smartphones <i>Giritharan Ravichandran, Koteeshwari R S</i>	409
EC41	Biometric authentication using finger nails <i>Sathishkumar Easwaramoorthy , Sophia F , Prathik A</i>	415

EC52	Background estimation based on fuzzy model for thermal video surveillance <i>M.K.Jeevarajan, P.Nirmal Kumar</i>	421
EC108	Smart Child Rescue System from borewell (SCRS) <i>Kavianand G, Gowri Ganesh K, Karthikeyan P</i>	426
EC91	Comparison of standard edge detection techniques along with morphological processing and pseudo coloring in sonar image <i>U.Anitha, S.Malarkkan, J.Premalatha, V.Manonmani</i>	432
EC92	High speed multioutput circuits using adiabatic logic <i>D.Jayanthi, A.Bhavani Shankar, S.Raghavan, G.Rajasekar</i>	436
EC95	performance analysis of direct detection flip-OFDM for VLC system <i>Jim Godwin R S, Veena K, Sriram Kumar D</i>	442
EC98	A hybrid discrete wavelet transform with neural network back propagation Approach for efficient medical image compression <i>B.Perumal, M.Pallikonda Rajasekaran</i>	447
EC 72	Digital fuzzy random impulse noise reduction for grayscale images <i>L.S Usha Rani, G.Jagajothi, P.Thiruvalar Selvan</i>	452
EC97	Design of broadband implantable loop antenna for human brain applications <i>Nageswara Rao Challa, Raghavan S</i>	456
EC85	Simultaneous signal selection for silicon debug through mixed-integer linear programming <i>Agalya. R, S. Saravanan</i>	461
EC04	Mitigation of low-order atmospheric turbulent effects using sensorless adaptive optics in terrestrial free space optical communication <i>Pasupathi T, Arputha Vijaya Selvi J, Niranjan Samuel J</i>	464
EC05	Comparison of modulation techniques for underwater optical wireless communication at Mallipattinam, Tamil nadu <i>Herald A, Vennila C</i>	470
EC66	Medical imaging modalities: A survey <i>Aarthipoornima Elangovan, Jeyaseelan.T</i>	475
EC70	Comparative performance analysis of forward error correcting codes for free space optical communication <i>R.Leoraj, J. Arputha Vijaya Selvi</i>	479
EC79	Testing in VLSI: A survey <i>Rinitha.R, Ponni.R</i>	485
EC80	A survey on smart grid <i>Arockia Cecilia.A, Sudarsanan. K</i>	491
EC82	Wireless sensor network in precision agriculture: A survey <i>Deepika G, Rajapirian P</i>	498
EC84	A survey on wireless ad hoc network issues and implementation <i>S. Sharmila. T. Shanthi</i>	502
EC87	FPGA based frequency synthesizer for 14-band MBOFDMUWB transceivers <i>T. Shanthi, V.Krishnamurthi</i>	508
EE11	Analysis and estimation of harmonics using Wavelet packet transform <i>K.Thangaraj, Archana.R, Afrin Begam.S</i>	512
EE12	Analysis of harmonics using s-transform <i>Thangaraj.K, Muruganandham.J, Selvaumar.S, Jagan.R</i>	517
EE15	A review of UPQC topologies for reduced dc link voltage with MATLAB simulation models. <i>Yasmeena, G Tulasi Ram Das</i>	522
EE16	Design of high frequency power transformer for switched mode power supplies <i>P.Seshasai kumar</i>	529
EE63	Analysis of outdoor thermal comfort in warm and Humid tropical climate <i>Mobi Mathew, Siddhartha</i>	534

EE50	Vibration Analysis Of 3-Phase Squirrel Cage Induction Motor Due To Broken Rotor Using Artificial Intelligence <i>Vincent. J. Tamilselvan.A</i>	540
EE22	Microgrid reactive power compensation using UPQC with common DC link energy restored by PV array <i>M.T.L.Gayatri, Alivelu M. Parimi, A.V. Pavan Kumar</i>	544
EE30	Effect of magnet retaining sleeve thickness on cogging torque of radial flux permanent magnet Brushless dc motor <i>Amit N. Patel, Amit Kapil</i>	552
EE41	A novel multiple fault identification with fast fourier transform analysis <i>G.Devadasu, M Sushama</i>	555
EE27	Performance analysis of voltage regulated inverter for FLC based PV-wind hybrid power system with real time data <i>A.V. Pavan Kumar Alivelu M. Parimi, K. Uma Rao</i>	560
EE49	Optimal design and feasibility study of renewable hybrid energy systems <i>Sayantani Dey, Ritesh Dosh, S.C. Swain</i>	568
EE56	Particle swarm optimization based power system stabilizer for SMIB system <i>Pothula Jagadeesh, M.Sai Veerraju</i>	574
EE05	Real coded genetic algorithm for optimal parameter estimation of solar photovoltaic model <i>Ulaganathan.M, Devaraj.D</i>	580
EE06	Artificial neural network based static security Assessment module using PMU measurements for smart grid application <i>M. Krishna Paramathma, D. Devaraj, B. Subbareddy</i>	586
EE13	Modelling and simulation of direct power control strategy for DFIG using vienna rectifier <i>K.K.Saravanan, N. Stalin, T.Sree Renga Raja, B.Soundara pandiyan</i>	591
EE17	Review on optimal distributed generation placement using particle swarm optimization Algorithms <i>J.Rajalakshmi, S.Durairaj</i>	598
EE18	Estimation of global solar radiation using sunshine duration and temperature in Chennai <i>R.Meenal, A.Immanuel Selvakumar</i>	604
EE19	A novel control technique of solar farm inverter as PV-UPFC for the enhancement of transient stability in power grid <i>Ramya.L, Pratheebha.J</i>	610
EE24	An integrated three layer hierarchical control and protection of photovoltaic generators in Microgrid <i>S.S. Vignesh, G.Udayakumar,</i>	617
EE38	Automated Guided Car (AGC) for industrial automation <i>Nivas V M Gobi Krishnan P, Chyiril fredrhc A</i>	623
EE39	Integrated energy management of micro-grid using multi agent system <i>Leo Raju, Immanuel Rajkumar, Kaviya Appaswamy</i>	629
EE54	Power management using modified solid state transformer for AC distribution system <i>R.S. Sundaramoorthy, G.Udayakumar,</i>	637
EE59	Fuzzy based controllers for single inductor multiple output buck converter <i>S.Agusti Lindiya, K.Vijayarekha, S.Palani</i>	643
EE21	A fuzzy-logic based management system in smart-microgrid for residential applications <i>A. Albert Martin Ruban, G. Mathew Rajasekaran, T. Pasupathi, N. Rajeswari</i>	650

EE32	Fuzzy logic based quasi z-source cascaded multilevel inverter with energy storage for photovoltaic power generation system <i>P.Iniyaval,S.R.Karthikeyan</i>	657
EE33	Series compensation technique based energy management at micro-grid <i>R.Arunmozhi,J.Arokiaraj</i>	662
EE62	Fault diagnosis of three phase squirrel cage induction motor due to bearing by using artificial intelligence <i>M.Kaviarasan,A. TamilSelvan , E. Venugopal</i>	667
EE34	Design and implementation of SEPIC converter with low ripple battery current for electric vehicle applications <i>R.Nithya R.Sundaramoorthi</i>	671
ME01	Effect of surfactant additive on bubble growth during pool boiling <i>Abdul Najim, Anil Acharya, Ashok Pise, Sameer S. Gajghate, Saiprasad Pise</i>	N/A
ME03	Experimental study of heat transfer by turbulator: A literature review <i>Gajghate S. Deshmukh A, Deshpande O, Desai A.,Kharade S</i>	N/A
ME11	Experimental thermal analysis of grooved plate with forced convection <i>Amjad Khan, Shoaib Kamal,Mohammed Sami.A., Abdul Razak.R.Kaladgi</i>	N/A
ME06	Need of microchannels for high heat flux electronics cooling: a survey <i>Sameer S. Gajghate,C. Y. Seemikeri,S. A. Alur</i>	N/A
ME08	A review of design and development of college bench by ergonomics & anthropometry concept <i>Sameer S. Gajghate,Rohan B. Goilkar,Snehal S. Jagtap,Chaitrajeet R.Deokate</i>	N/A
ME10	Numerical analysis of a rectangular plate cooled in a surrounding medium <i>Abdul Razak.R.K, Mohammed Sami.A.D, Ramis.M.K</i>	N/A
ME09	Study of literature for different methods of cooling of microchip <i>Sameer S. Gajghate,Mahesh A. Patil,Shailesh R. Babar,Vaishnavi C. Ingavale,Navanath S. Shelke</i>	N/A
ME15	Heat transfer analysis of minichannels cooled with water-based coolants: An Experimental approach <i>Abdul razak.R.K, Abdullah Gubbi, Amjad han, Hasibur Rahman Sardar, Mohammed Rafeeq Noble james, Mohammed Sami.A</i>	N/A
ME27	Experimental investigation of cavity absorber in parabolic solar collector <i>Aravind.G,Loganathan.C,Palaniappan.M</i>	N/A
ME21	A comparative thermal analysis of circular and rectangular minichannels <i>Abdul razak.R.K, Abdullah Gubbi, Hasibur Rahman Sardar, Mohammed Rafeeq, Mohammed Faheem, Abin James, Mohammed Sami.A</i>	N/A
ME05	Application of DMAIC methodology in the real time company environment : A case study <i>Kumaravadivel. A, Evangeline.A</i>	N/A
ME04	Fabrication and investigation of FRP for damage tolerance in complex machinery <i>Soundrarajan.B</i>	N/A
ME23	Cold flow analysis of various biomass mixtures in self circulating fluidized bed biomass gasifier <i>R. Ganesh, T.Pushparaj</i>	N/A
ME14	Effects of nano additive on cashew nut shell liquid bio-oil blends in diesel engine <i>T.Pushparaj, R.Shankar</i>	N/A
ME30	An investigation for sliding wear behaviour of al6082 metal matrix reinforcing sic composites <i>S.A.Balakumaran</i>	N/A

ME16	Shell side flow behaviour analysis with various tube bundle alignment in shell and tube heat exchanger using CFD <i>K. Guruprasath, T.Pushparaj</i>	N/A
ME25	Synthesis of chicken feather/sisal reinforced polyester hybrid composite through compression molding technique <i>M.Ravichandran,P.P.Shantharaman</i>	N/A
ME19	Numerical investigation of flow field in a convergent – divergent nozzle using computational fluid dynamic analysis <i>K.Balaji, M.Ravichandran</i>	N/A
ME17	Finite element heat transfer analysis of open and closed plate-fin configurations using ANSYS <i>Vijay prabakaran.S,Mathivanan.G</i>	N/A
ME29	Unmanned flying machine for field surveillance <i>S.Nithya Poornima,R.G.Deshpande</i>	N/A
MA01	Recurrent neural network with transcendental delay <i>Neeraj Sahu</i>	788
MA06	Significant role of migration in virtual environment <i>D.Ragupathi, N.Jayaveeran</i>	794
MA07	Semantic searching technique based on ontology <i>R.Aravazhi, M.Florance Dayana</i>	800
MA05	A truncated life test in acceptance sampling plan based on exponentiated exponential distribution <i>K.K.Suresh and K. Usha</i>	806
MA08	Comparative study of an intelligent dynamic approaches in predicting exchange rate <i>S.Indrakala,T.Chitrakalarani</i>	811
CHE03	Biosorption of victoria blue using Zizyphus oenoplia seed: evaluation of experimental and modeling studies <i>R. Tamilarasan, , V.Sureshkumar , M. Kumar</i>	815
CHE04	Influence of polythiophene - anthraquinone sulphonic acid (Pth-Aqsa) nanopowder on corrosion inhibition of mild steel in Hcl solution <i>V.Suresh Kumar, B.R.Venkatraman</i>	823
CHE05	Electrochemical response studies of γ -Fe ₂ O ₃ -CH composite carbon paste modified electrode <i>AL.Kavitha</i>	829
CHE06	Preparation and characterisation of Nd _{0.6} (Sr _{0.2} Ba _{0.2})0.4CoO ₃ cathode material for solid oxide fuel cell applications <i>A.Subashini,, AL.Kavitha</i>	834