SPCS 1008  Fraud detection in healthcare insurance
C Arunkumar, Srijha Kalyan and Hamsini Ravishankar ........................................... 0001

SPCS 1010  Visualization and interpretation of Gephi and Tableau: A comparative study
Anuja Bokhare and P S Metkewar .................................................................................. 0007

SPCS 1015  Context-based Clustering of Assamese words using n-gram model
M. P. Bhuyan, S. K. Sarma and P. Sarma ................................................................. 0014

SPCS 1017  Facilitating Cryptojacking through internet middle boxes
R.Harish, A.Aswin kumar, V Anil Kumar and Amritha P.P ........................................ 0024

SPCS 1018  Three dimensional protein structure prediction –Exploratory review
Geethu.S and Vimina E.R .......................................................................................... 0032

SPCS 1030  Towards the hidden play of MicroRNAs in complex disorders – A detailed analysis of MiRNA expression profiling using feature selection and classification methods
Sujamol S, Vimina E R, and U Krishnakumar ............................................................ 0038

SPCS 1032  Rain streaks removal using discrete Cosine transform and diffusion based technique
Riya, Bhupendra Gupta and Subir Singh Lamba ......................................................... 0045

SPCS 1033  Fuzzy C-Means hybrid with Fuzzy bacterial colony optimization
K.Vijayakumari* and V.Baby Deepa ........................................................................... 0052

SPCS 1049  Accurate detection and diagnosis of breast cancer using scaled conjugate gradient back propagation algorithm and advanced deep learning techniques
Pradeep Kumar Vadla, Y.V.R. Naga Pawan, Bhanu Prakash Kolla and Suman Lata Tripathi ................................................................. 0060

SPCS 1056  A modified neural network architecture for message type recognition in VANET using an emergency message transmission protocol
Pallavi Sachin Patil, and Onkar S Kemkar ................................................................. 0069

SPCS 1059  Improved similar images retrieval: dynamic multi-feature of fusion a method with texture features
John Bosco P and Janakiraman S .............................................................................. 0078

SPCS 1061  PR-SEO: An innovative approach for product ranking in E-commerce
Thaharim Khan, Md. Imrose Hassan, Md Ishrak Islam Zarif, and Masud Rabbani ........................................................................... 0088

SPCS 1078  Classification of computer graphic images using deep learning
Basanth Kumar H B and H R Chennamma ................................................................. 0094
SPCS 1081  Identification of interested web users using decision tree classifier  
Moksud Alam Mallik, Nurul Fariza Zulkurnain, Jamil Ahmed Sk and Mohammed Khaja Nizamuddin ................................................................. 0098

SPCS 1085  Optimizing network lifetime and energy consumption in homogeneous clustered WSNs using quantum PSO algorithm  
Pradeep Kanchan and Pushparaj Shetty D .......................................................... 0108

SPCS 1088  SOT: An Application based research for translate natural language from Image  
Masud Rabbani, Ali Md Musfick Jamil, Thaharim Khan and Md Ishrak Islam Zarif ................................................................. 0116

SPCS 2025  Towards building a Social Internet of Medical Things (SIoMT) network  
Nancy Gulati and Pankaj Deep Kaur ................................................................. 0121

SPCS 2035  Crack detection in concrete structures using image processing and deep learning  
Arathi Reghukumar and JaniAnbarasi L ................................................................. 0128

SPCS 2044  Internet of things for smart city manufacturing industry using dynamic-nominal and continous AdaBoost  
Jing Li, Renrui Zhang, Liu Shuhong and Liu Yankun ................................................................. 0134

SPCS 2051  Target tracking scheme using multi-objective differential evolution for underwater wireless sensor networks  
Sangeeta Kumari, Pavan Kumar Mishra and Veena Anand ................................................................. 0140

SPCS 2082  Efficient speech to emotion recognition using convolutional neural network  
Ganesh Kumar R and Dhanya N.M ................................................................. 0148

SPCS 3025  A study on integrated cloud education system*  
Sagnik Paul, Kankana Bandyopadhyay and Abhishek Roy ................................................................. 0155

SPCS 3039  Formal analysis of OpenID connect protocol using tamarin prover  
S Naresh and K P Jevitha ................................................................. 0160

SPCS 3060  Energy efficient routing scheme for underwater wireless sensor networks using type-2 Takagi-Sugeno-Kang FIS  
Sangeeta Kumari, Pavan Kumar Mishra and Veena Anand ................................................................. 0170

SPEC 1006  Double negative material based miniaturized passive planar S-Shaped radiator  
| SPEC 1018 | CPW FED ARC Loaded slotted rectangular patch antenna for UWB applications |
| SPEC 1022 | Super wide band 1 x 2 Mimo antenna for advanced wireless communication |
| SPEC 1041 | A novel indoor path loss model based on Path Loss Exponent (PLE) computational approach |
| SPEC 1046 | Performance of fading channels in non-orthogonal multiple access |
| SPEC 1056 | Hardware implementation of smart home automation system using Aurdino UNO |
| SPEC 1058 | Facial expression image analysis to classify high and low level autism spectrum disordered kids using attention mechanism embedded deep learning technique |
| SPEC 1067 | Hamming based multiple transient error correction code for NoC interconnect |
| SPEC 1072 | An approach to diminish the leakage power in complementary MOS VLSI circuits |
| SPEC 1083 | Design and implementation of 3-bit flash Analog to digital converter for low power and high speed applications with new Ex-or based ROM encoder |
| SPEC 1086 | An analysis of phase-based speech features for tonal speech recognition |
| SPEC 1094 | Hybrid 4:16 decoder using variable bias GDI technique |
| SPEC 2039 | A dual 32 nibble specific cipher model for RGB images using Lorenz attractor |
Urban regional population flow forecasting model based on space-time cyclic convolution networks
Ma Ling1, Jing Li, Renrui Zhang, Liu Shuhong and Liu Yankun ........................... 0276

A MIMO antenna system with dual band and high isolation for Wi-Fi technology using defected ground structure
Bhakti V. Nikam and Maruti R. Jadhav ................................................................. 0283

Anomaly detection in Vitis Vinifera using neural networks and radon transform
Finney Daniel Shadrach, Kandasamy Gunavathi and Raghunathan Anitha ........... 0291

Retrieve, processing and analysis of global positioning system derived Ionospheric total electron content using IGS products
J R K Kumar. Dabbakuti, Kowshik Chandra. Y Sai Koushik Reddy and
A V Prabu .............................................................................................................. 0299

Novel approach for MI detection with reduced complexity
Jobi Jose and Anu K Kuriakose ........................................................................... 0304

Design and simulation of 2x2 Microstrip patch antenna array using HFSS
Anu K Kuriakose, Jobi Jose and Jobins George ................................................ 0310

Functional carbon electrodes from Phyllanthus acidus leaves as high performance of supercapacitors
P.Divya and R. Rajalakshmi ................................................................................ 0317

Sliding mode controller for second order time delay systems using twisting super twisting and adaptive algorithms
N.Beauty, B.Amarendra Reddy, P.Sneha and G.Neelima Sai .............................. 0330

Adaptive second-order slidingmode controller design for a simple pendulum
G.Neelima Sai, B.Amarendra Reddy, P.Sneha and N.Beauty ............................. 0340

Design and hardware implementation of switched reluctance motor using Ansys Maxwell
H.Vidhya and S.Allirani ....................................................................................... 0350

Modelling and stability assessment of hybrid micro grid
Akash Samrat, Bhimal Mehta and Siddharth Joshi ............................................. 0360

Second-order sliding mode controller for a DC motor with prescribed law of variation
P.Sneha, B.Amarendra Reddy, G.Neelima Sai and N.Beauty ............................. 0365

Modeling and performance analysis of hybrid electric vehicle
Sreeram K and Preetha P K ................................................................................ 0375
| SPEE 1031 | Fool proof two-wheeler safety device  
*P.N. Siddharth and Justus Panicker C.T.* | 0385 |
|----------|------------------------------------------|------|
| SPEE 1032 | A Non-Isolated PV quadratic Bi-Directional converter with closed loop operation of a drive using fuzzy controller  
*Arisetti Manoj and B Jyothi* | 0392 |
| SPEE 1042 | Optimized energy extraction from piezoelectric tile using synchronized switch harvesting on inductor  
*Shaik Afreen, S Harini, Udaya Bhasker Manthati and Arunkumar C R* | 0404 |
| SPEE 1055 | Experimental investigation of an attachment to self-propel a manual conventional wheelchair  
*Arnold Fernandez, Amritha Behanan, AllwynFrancis, Ahmed Harris, Vishnu Sankar and John M George* | 0415 |
| SPEE 1058 | V/F speed control of three phase and five phase induction motor drive: A comparative study  
*Senthamizh Selvan, A. Venkadesan and K.Sedhuraman* | 0424 |
| SPEE 1060 | Effective lighting and load management of Asia’s biggest tea estate - Monabarie  
*Debdeep Saha, Amit Jyoti Deka and Israfil Hussain* | 0440 |
| SPEE 1098 | Combined FACTS and microgrid based congestion management in transmission lines  
*G. Ramesh and V. Ranjith Babu* | 0445 |