

Sl. NO.	Submission No.	Paper id	Track ppt	Authors	Title
Artificial Intelligence and Knowledge Computing (AIKC-1)					
1	48	C_1	1	D. Yang, Abeer Alsadoon, P.W.C. Prasad, A.K. Singh and A. Elchouemi	An Emotion Recognition Model Based on Facial Recognition in Virtual Learning Environment
2	59	C_2	2	Ngangbam Herojit Singh and Khelchandra Thongam	Mobile Robot Navigation using Fuzzy Logic in Static Environments
3	84	C_3	3	Varun Gupta and Monika Mittal	KNN and PCA classifier with Autoregressive modeling during different ECG signal interpretation
4	91	C_4	4	Pramendra Kumar, Naveen Kumar and Vikas Panwar	RBF Neural Control Design for SISO Nonaffine Nonlinear Systems
Artificial Intelligence and Knowledge Computing (AIKC-2)					
5	92	C_5	5	Namita Saini, Rakesh K Bajaj, Neeraj Gandotra and R P Dwivedi	Multi-Criteria Decision Making with Triangular Intuitionistic Fuzzy Number based on Distance Measure and Parametric Entropy Approach
6	95	C_6	6	Komal Rani and Naveen Kumar	Design of Intelligent Hybrid Force and Position Control of Robot Manipulator
7	103	C_7	7	Manju Rani, Ruchika and Naveen Kumar	Intelligent Tracking Control of Redundant Robot Manipulators including Actuator Dynamics
8	170	C_8	8	Shashi Shekhar, Dilip K. Sharma and M.M. Sufyan Beg	Hindi Roman Linguistic Framework for Retrieving Transliteration Variants using Bootstrapping
Artificial Intelligence and Knowledge Computing (AIKC-3)					
9	171	C_9	9	Diya Thomas and Binsu C. Kovoov	A Genetic Algorithm Approach to Autonomous Smart Vehicle Parking system
10	203	C_10	10	Pawan A. Chandak, Arati Lende and Jayant Modak	Modelling of Human Power Flywheel Motor through Artificial Neural Network- A Novel Approach
11	219	C_11	11	Dillip K. Ghose and Sandeep Samantaray	Modeling sediment concentration using back propagation neural network and regression coupled with genetic algorithm.
12	257	C_12	12	Seema Wazarkar, Bettahally Keshavamurthy and Ahsan Hussain	Region-based Segmentation of Social Images Using Soft KNN Algorithm
Image Processing and Information Retrieval (IPIR-1)					
13	30	C_13	1	Sandeep Kumar Singla, Rahul Dev Garg, Om Prakash Dubey and Anu Bala	Extraction of Crop Information from Reconstructed Landsat Data in Himalayan Foothills Region
14	47	C_14	2	Suren Makaju, P.W.C. Prasad, Abeer Alsadoon, A. K. Singh and A. Elchouemi	Lung Cancer Detection using CT Scan Images
15	57	C_15	3	B. Devkota, Abeer Alsadoon, P.W.C. Prasad, A. K. Singh and A. Elchouemi	Image Segmentation for Early Stage Brain Tumor Detection using Mathematical Morphological Reconstruction
16	147	C_16	4	Pradeep, Akanshu Mahajan, Varun Bharti, Harendra Pal Singh, Lalita Josyula and Pravesh Kumar	Construction of a 3D Map of Indoor Environment
17	150	C_17	5	P. Thamiselvan and J. G. R. Sathiaselvan	A Novel Profuse Clustering Technique for Image Denoising
18	184	C_18	6	Megha Gupta, Charul Bhatnagar and A. S. Jalal	Clothing Image Retrieval Based On Multiple Features for Smarter Shopping
19	199	C_19	7	Monika Agarwal and Rashima Mahajan	Medical Image Contrast Enhancement using Range Limited Weighted Histogram Equalization
Image Processing and Information Retrieval (IPIR-2)					
20	222	C_20	8	T. D. Varsha Shree, K Revanth, N Sri Madhava Raja and V Rajinikanth	A Hybrid Image Processing Approach to Examine Abnormality in Retinal Optic Disc
21	231	C_21	9	Saswat K Pujari, Gargi Bhattacharjee and Soumyakant Bhoi	A Hybridized Model for Image Encryption through Genetic Algorithm and DNA Sequence
22	248	C_22	10	Rose Bindu Joseph and Devarasan Ezhilmaran	A smart computing algorithm for finger vein matching with affine invariant features using fuzzy image retrieval
23	258	C_23	11	Palak Jain and Umesh Ghanekar	Robust watermarking technique for textured images

Modeling & Analysis of Communications Systems (MACS)					
24	8	C_24	1	Gauri Kalnoor, Jayashree Agarkhed and Siddarama Patil	Detection of Intruder using KMP Pattern Matching Techniques in Wireless Sensor Networks
25	40	C_25	2	Neha Kumari, Rohit Kumar and Rohit Bajaj	Energy Efficient Communication Using Reconfigurable Directional Antenna in MANET
26	45	C_26	3	Priyanka Ahlawat and Mayank Dave	An attack model based highly secure key management scheme for wireless sensor networks
27	76	C_27	4	Sudeep Varshney, Chiranjeev Kumar and Abhishek Swaroop	Leach Based Hierarchical Routing Protocol for Monitoring of Over-ground Pipelines Using Linear Wireless Sensor Networks
28	78	C_28	5	Dinesh Chander and Rajneesh Kumar	QoS Enabled Cross Layer Multicast Routing over Mobile Ad Hoc Networks
29	79	C_29	6	Poonam Goyal and Brahmjit Singh	Subspace Pursuit for Sparse Signal Reconstruction in Wireless Sensor Networks
30	94	C_30	7	Govind P. Gupta	Improved Cuckoo Search based Clustering Protocol for Wireless Sensor Network
31	161	C_31	8	Kumari Nidhi Lal and Anoj Kumar	ICN-WiMAX: An Application of Network coding based caching over IEEE 802.16
32	167	C_32	9	P. Sivakumar and M. Radhika	Performance Analysis of LEACH-GA over LEACH and LEACH-C in WSN
33	233	C_33	10	Amitoj Singh and Jaskaran Singh	A NOVEL METHOD FOR CAPACITY ENHANCEMENT OF FIBER & MINIMIZATION OF FWM IN WDM OPTICAL NETWORK
34	234	C_34	11	Piyush Yadav, Rajeev Agrawal and Komal Kashish	Performance Evaluation of ad hoc Wireless Local Area Network in Telemedicine Applications
35	271	C_35	12	Krishan Kumar	A Spectrum Handoff Scheme for Optimal Network Selection in NEMO based Cognitive Radio Vehicular Networks: A Cost Function MADM Method based on Grey Theory based Approach
Pervasive Computing and Applications (PCA)					
36	26	C_36	1	Sahil Saharan, J.S Lather and R Radhakrishnan	Optimisation Using Rearrangement of Order of BGP and TLBO Approach
37	119	C_37	2	Sarvesh Pandey and Udai Shanker	IDRC: A Distributed Real- Time Commit Protocol
38	232	C_38	3	K. Maheswaran and A. Aloysius	Cognitive Weighted Inherited Class Complexity Metric
39	182	C_39	4	Yogesh Gupta	Selection of important features and predicting wine quality using machine learning techniques
40	279	C_40	5	Bhavish Khanna N, Sharon Moses J and Nirmala M	SoftMax based User Attitude Detection Algorithm for Sentimental Analysis
41	134	C_41	6	Om Krishan and Sathans	Design and Techno-Economic Analysis of a HRES in a Rural Village
42	164	C_42	7	Vishal Vyas and V. Uma	An Extensive study of Sentiment Analysis tools and Binary Classification of tweets using Rapid Miner
43	204	C_43	8	Sarita Chaudhary, Mohd Aamir Khan and Charul Bhatnagar	Multiple Anomalous Activity Detection in Videos
44	211	C_44	9	Shiva Darshan S.L and Jaidhar C.D	Performance Evaluation of Filter-based Feature Selection Techniques in Classifying Portable Executable Files
45	220	C_45	10	Nitish Puri, Ashwani Jain, Piyush Mohanty and Subhamoy Bhattacharya	Earthquake Response Analysis of Sites in State of Haryana using DEEPSOIL Software
46	66	C_46	11	A. Sangeetha and T. Amudha	A Novel Bio-Inspired Framework for CO2 Emission Forecast in India
47	201	C_47	12	Sarbjit Singh and R.S. Kaler	Performance analysis of evanescent wave absorption plasmonic optical sensor with COMSOL FEM method simulation

Performance Evaluation and Measurement (PEM-1)					
48	1	C_48	1	Ankit Uniyal and Ashwani Kumar	Optimal Distributed Generation Placement with Multiple Objectives Considering Probabilistic Load
49	2	C_49	2	Abhishek Gupta and Ashwani Kumar	ATC Determination with Heuristic techniques and Comparison with Sensitivity based Methods and GAMS
50	111	C_50	3	Bhanu Pratap, Navdeep Singh and Vineet Kumar	Robust Control of Variable Speed Wind Turbine Using Quasi-Sliding Mode Approach
51	181	C_51	4	Swarup Kumar Saha and Kanwarjit Singh Sandhu	Optimization Techniques for the Analysis of Self-excited Induction Generator
Performance Evaluation and Measurement (PEM-2)					
52	205	C_52	5	Aeidapu Mahesh and Kanwarjit Singh Sandhu	Evolutionary Algorithm based Optimal Angle strategy for a Cascade H-bridge Inverter
53	226	C_53	6	Sergei Sokolov, Anton Zhilenkov, Sergei Chernyi, and Anatoliy Nyrkov	Assessment of the Impact of Destabilizing Factors in the Main Engine Shaft of the Adaptive Speed Controller
54	235	C_54	7	Sunil Singh and D. N. Vishwakarma	A Novel Methodology for Identifying Cross-Country Faults in Series-Compensated Double Circuit Transmission Lines
55	54	C_55	8	Miska Prasad and Ashok Kumar Akella	Voltage and Current Quality Improvement by Solar Photovoltaic fed ZSI-DVR
Performance Evaluation and Measurement (PEM-3)					
56	65	C_56	9	Anupam Kumar, Vijay Kumar and Prashant J Gaidhane	Optimal Design of Fuzzy Fractional Order PID Controller for Redundant Robot
57	118	C_57	10	Ranjeeta Singh and H.K. Verma	Development of PLC Based Controller for Pneumatic Pressing Machine in Engine-Bearing Manufacturing Plant
58	236	C_58	11	Akshay Kulkarni, Vinay Kumar, Pankaj Dhule, Sanjay Kumar Mishra, Anvita Tripathi and Rabindra K. Barik	Optical Filter Enabled Continuous Disinfection of Hospital Rooms using Multi-Sensor Feedback Aided Light Source
59	241	C_59	12	Biju K S and Jibukumar M. G.	Ictal EEG Classification based on State Space Modeling of Intrinsic Mode functions
Reliability and Information Security (RIS)					
60	61	C_60	1	A.S.V. Ravi Kanth and Neetu Garg	Computational Simulations for Solving a Class of Fractional Models via Caputo-Fabrizio Fractional Derivative
61	100	C_61	2	Bhaskariyoti Das and Ashwani Kumar	A NLP approach to optimally size an energy storage system for proper utilization of renewable energy sources
62	149	C_62	3	Suman Deb, Suraksha and Paritosh Bhattacharya	Augmented Sign Language Modeling (ASLM) with interaction design on smartphone - an assistive learning and communication tool for inclusive classroom
63	55	C_63	4	Niyan Marchon, Gourish Naik and Radhakrishna Pai	ECG Electrode Configuration to extract Real Time FECG signals
64	73	C_64	5	Nitish Puri, Harsh Deep Prasad and Ashwani Jain	Prediction of Geotechnical Parameters Using Machine Learning Techniques
65	51	C_65	6	Zameer Gulzar, A. Anny Leema and Gerard Deepak	PCRS: Personalized Course Recommender System Based On Hybrid Approach
66	127	C_66	7	Adarsh Trivedi, Siddhant Srivastava, Apoorva Mishra, Anupam Shukla and Ritu Tiwari	Hybrid evolutionary approach for Devanagari handwritten numeral recognition using Convolutional Neural Network
67	136	C_67	8	Alok Kumar and Renu Jain	Faculty Evaluation System
68	154	C_68	9	Archana Patel and Sarika Jain	Formalisms of Representing Knowledge
69	214	C_69	10	Vikram Singh and Ajay Singh	Learn-As-You-Go: Feedback-Driven Result Ranking and Query Refinement for Interactive Data Exploration
70	82	C_70	11	Michael George, Babita Roslind Jose and Jimson Mathew	Performance Evaluation of KCF based Trackers using VOT Dataset
71	253	C_71	12	Surender Singh and Ashutosh Kumar Singh	Web-Spam Features Selection Using CFS-PSO

Secure and Reliable Systems (SRS)					
72	132	C_72	1	Vikash Kumar Rai, Somanath Tripathy and Jimson Mathew	Memristor based Random Number Generator: Architectures and Evaluation
73	173	C_73	2	Manish Kumar, Ankit Bindal, Robin Gautam and Rajesh Bhatia	Keyword query based focused Web crawler
74	33	C_74	3	Smita Sonker and Alka Munjal	Application of Quasi 'f' power Increasing Sequences in Absolute Summability
75	255	C_75	4	Pratyush Kumar and Rahul Roy	Study and experimental investigation of flow and flexural properties of natural fiber reinforced self compacting concrete
76	198	C_76	5	Ruchi Mittal and M.P.S Bhatia	Anomaly Detection in Multiplex Networks
77	212	C_77	6	Ankit Kumar Jain and B.B. Gupta	Rule-Based Framework for Detection of Smishing Messages in Mobile Environment
78	16	C_78	7	Ashish K. Sahu, Pragya Dwivedi and Vibhor Kant	Tags and Item Features as a Bridge for Cross-Domain Recommender Systems
79	142	C_79	8	Ajay K. Gupta and Udai Shanker	SPMC-CRP: A Cache Replacement Policy for Location Dependent Data in Mobile Environment
80	49	C_80	9	Y. Jin, Abeer Alsadoon, P.W.C. Prasad, A. K. Singh and A. Elchouemi	A Weight Joint-Based Clustering (WJC) Method for Secure Monitoring System
81	102	C_81	10	Rabindra K. Barik, Amaresh Chandra Dubey, Ankita Tripathi, T. Pratik, Sapna Sasane Rakesh K. Lenka, Harishchandra Dubey, Kunal Mankodiya and Vinay Kumar	Mist Data: Leveraging Mist Computing for Secure and Scalable Architecture for Smart and Connected Health
82	107	C_82	11	Vijay Kumar and Rimmi Anand	Reliable Distribution Network Design with Link Disruption Using Cross Decomposition
83	146	C_83	12	Ishu Gupta and Ashutosh Kumar Singh	A Probabilistic Approach for Guilty Agent Detection using Bigraph after Distribution of Sample Data

Ubiquitous Intelligence and Cyber-Physical Computing (UICC-1)					
84	5	C_84	1	Gurpreet Kaur, Bhavika Pandey, Aayushi Bhardwaj, Gargi Bhagat and Shashank Gupta	Efficient yet Robust Elimination of XSS Attack Vectors from HTML5 Web Applications Hosted on OSN-Based Cloud Platforms
85	38	C_85	2	Jitendra Kumar, Rimsha Goomer and Ashutosh Kumar Singh	Long Short Term Memory Recurrent Neural Network (LSTM-RNN) Based Workload Forecasting Model For Cloud Datacenters
86	125	C_86	3	Sakshi Chhabra and Ashutosh Kumar Singh	A probabilistic model for finding an Optimal Host framework and Load Distribution in Cloud Environment
87	131	C_87	4	P. Ravi Kumar, P. Herbert Raj and P. Jelciana	Exploring Data Security Issues and Solutions in Cloud Computing
88	144	C_88	5	Shubham Singh and Surmila Thokchom	Public integrity auditing for shared dynamic cloud data
Ubiquitous Intelligence and Cyber-Physical Computing (UICC-2)					
89	174	C_89	6	Abhishek Verma and Virender Ranga	Statistical analysis of CIDD5-001 dataset for Network Intrusion Detection Systems using Distance-based Machine Learning
90	200	C_90	7	Mohit Kumar, Kalka Dubey and S.C. Sharma	Elastic and flexible deadline constraint load Balancing algorithm for Cloud Computing
91	217	C_91	8	Kalka Dubey, Mohit Kumar and S.C. Sharma	Modified HEFT Algorithm for Task Scheduling in Cloud Environment
92	243	C_92	9	Sunil Luthra, Dixit Garg, Sachin Kumar Mangla and Yash Paul Singh Berwal	Analyzing Challenges to Internet of Things (IoT) Adoption and Diffusion: An Indian Context
93	64	C_93	10	Amit Rathee and Jitender Kumar Chhabra	Improving Cohesion Of A Software System By Performing Usage Pattern Based Clustering
Ubiquitous Intelligence and Cyber-Physical Computing (UICC-3)					
94	245	C_94	11	Pardeep Kumar Arora and Rajesh Bhatia	Agent-Based Regression Test Case Generation using Class Diagram, Use cases and Activity Diagram
95	117	C_95	12	Amit Kumar Srivastava and Shishir Kumar	Dynamic Reconfiguration of robot software component in real time distributed system using clustering techniques
96	169	C_96	13	Rakesh Mohanty and Rakesh Kumar Singh	New Results on Competitive Analysis of Move To Middle(MTM) List Update Algorithm using Doubly Linked List
97	265	C_97	14	Pranav Nerurkar, Archana Shirkeand, Madhav Chandane and Sunil Bhirud	Empirical Analysis of Data Clustering Algorithms
98	267	C_98	15	Pranav Nerurkar, Archana Shirkeand, Madhav Chandane and Sunil Bhirud	A Novel Heuristic for Evolutionary Clustering
VLSI Systems and Applications (VLSIS)					
99	1P	C_99	1	Masahiro Fujita	Automatic Correction of Logic Bugs in Hardware Design: Partial Logic Synthesis
100	27	C_100	2	Mousum Handique and Rijumoni Singha	A modified Transformation-Template based Synthesis using Swap/Fredkin Gates in Reversible Circuits
101	60	C_101	3	Hari Mohan Gaur, Ashutosh Kumar Singh and Umesh Ghanekar	In-depth Comparative Analysis of Reversible Gates for Designing Logic Circuits
102	77	C_102	4	Huirem Tarunkumar, Ashish Ranjan and Nonglen Meitei Pheiroijam	Universal Biquadratic filter with minimum number of Active FTFN
103	90	C_103	5	Varsha Pathak and Gaurav Saini	A Graded Channel Dual-Material Gate Junctionless MOSFET for Analog Applications.
104	113	C_104	6	Mousum Handique and Aayush Sonkar	An Extended approach for Mapping Reversible Circuits to Quantum Circuits using NCV-jv1i library
105	185	C_105	7	Lalin Laudis, Shilpa Shyam, Caroline Jemila and Suresh V	MOBA: Multi Objective Bat Algorithm for Combinatorial Optimization in VLSI
106	192	C_106	8	Vandana Shukla, O.P. Singh, G.R. Mishra and R. K. Tiwari	Reversible Realization of N-bit Arithmetic Circuit for Low Power Loss ALU Applications

Signal Processing Architectures and Models (SPAM-1)					
107	177	C_107	1	Rupali Bhardwaj and Deepali Bhagat	Two Level Encryption of Grey Scale Image through 2D Cellular Automata
108	202	C_108	2	Atma Ram Gupta and Ashwani Kumar	Impact of various load models on D-STATCOM allocation in DNO operated distribution network
109	221	C_109	3	Ravi Shankar, Kumar Gaurav, Vikash Sachan and R K Mishra	An Investigation of Two Phase Multi-Relay S-DF Cooperative Wireless Network Over Time-Variant Fading Channels With Incorrect CSI
110	67	C_110	4	Ankur Maurya, Divya Kumar and R.K. Aggarwal	Speaker recognition for Hindi speech signal using MFCC-GMM approach
111	143	C_111	5	Neha Fotedar and Poonam Saini	Performance Analysis of Time Synchronization Protocols on Different Commercial Mote Platforms
112	188	C_112	6	Tanmay Bhowmik, Amitava Choudhury and Shyamal Kumar Das Mandal	Deep Neural Network based Place and Manner of Articulation Detection and Classification for Bengali continuous speech
113	208	C_113	7	Sai Prasad Potharaju and M. Sreedevi	A Novel Subset Feature Selection Framework for Increasing the Classification Performance of SONAR Targets
Signal Processing Architectures and Models (SPAM-2)					
114	275	C_114	8	Krishan Kumar and Ranjan Kumar Gupta	Signal to Noise Ratio Based Wi-Fi Offloading Decision Algorithm in Vehicular Networks
115	277	C_115	9	Ajay Gupta and Udai Shanker	Modified Predicted Region based Cache Replacement Policy for Location Dependent Data in Mobile Environment
116	280	C_116	10	Smita Singh, Sarita Negi, Shashi Kant Verma and Neelam Panar	Comparative Study of Existing Data Scheduling Approaches and Role of Cloud in VANET Environment
117	163	C_117	11	Shamsollah Ghanbari and Mohamed Othman	Time Cheating in Divisible Load Scheduling: Sensitivity Analysis, Results and Open Problems