2019 Second International Conference on Advanced Computational and Communication Paradigms (ICACCP)

Organized by
Department of Computer Science and Engineering
Sikkim Manipal Institute of Technology, Sikkim, India
Date: February 25-28, 2019

Track-V: Computer Vision and Image Processing | Venue: Seminar Hall

Day II Date: 26th February 2019 (Tuesday) Time: 2.00-7.30 PM	Session Chair: Dr. Sekhar Mandal, Indian Institute of Engineering Science and Technology, India Co-Chair: Dr. Sourav De, Cooch Behar Government Engineering College, India	
	Paper #	**Paper Details**
	1570497127	*G Sucharitha* , "Local Extreme Co-occurrence Edge Binary Pattern for Bio-medical Image Retrieval"
	1570497625	*Swadesh Maurya and Ayesha Choudhary*, "Pedestrian Detection and Vulnerability Decision in Videos"
	1570497626	*Pramod Soni and Ayesha Choudhary, "*Automated Fall Detection from a Camera Using Support Vector Machine"
	1570502868	*Tiken Singh Moirangthem, Parismita Bharali and Chandrika Bhuyan*, "Automated Detection of Diabetic Retinopathy"
	1570503214	*Isha Suwalka*, "Machine Learning Using AMKSOM for Identifying Tumor Around Edema Region"
	1570503784	*Surojit Dey and Mirzanur Rahman, "*Application of Image Processing and Data Mining Techniques for Traffic Density Estimation and Prediction"
	1570503804	*Suparna Biswas,Jaya Sil and Santi Prasad Maity*, "Compressive Sensing Based Expression Recognition"
	1570503844	*Shobhanjana Kalita, Arindam Karmakar and Shyamanta Hazarika*, "Human Fall Detection During Activities of Daily Living Using Extended CORE9"
	1570503954	*Ashwin Geet D'Sa and Prasad B. G.*, "A Survey on Vision Based Activity Recognition Its Applications and Challenges"
	1570506799	*Suni S S* , "Fusing Multimodal Features for Recognizing Hand Gestures"
	1570507409	*Sumit Kumar Chatterjee, "*An Efficient Motion Estimation Algorithm for Mobile Video Applications"
	1570507652	*Saroj Kumar Chandra and Manish Bajpai, "*Image Enhancement Using Fractional Partial Differential Equation"
	1570507656	*Soumi Ray and Vinod Kumar, "*Identification of Abnormal Brain Images from CT Image Dataset"
	1570507765	*Palash Ghosal, Lokesh Nandanwar, Swati Kanchan;,Ashok Bhadra, Jayasree Chakraborty and Debashis Nandi* " Brain Tumor Classification Using ResNet-101 Based Squeeze and Excitation Deep Neural Network"
	1570507884	*Amrit Swaroop Sinha, Aniq Ur Rahman, Ravi Kant Kumar and Goutam Sanyal*, "Enhancing Face Recognition Through Overlaying Training Images"
	1570507946	*Subhrajyoti Maji and John Dingliana, "*Perceptually Optimized Color Maps for Visualizing Large Numbers of Features"

	1570507951	*Meghana Nagori, Rushikesh Jachak and Purva Chaudhari, "*A Framework for Segregating Solid Waste by Employing the Technique of Image Annotation"
	1570508493	*Kalpita Dutta, Nibaran Das, Mahantapas Kundu and Mita Nasipuri, "*Using Dynamic Routing to Extract Intermediate Features for Developing Scalable Capsule Networks"
	1570508949	*Ram Narayan Patro, Subhashree Subudhi and Pradyut Kumar Biswal, "*Effect of Spatial Enhancement on Hyperspectral Image Classification"
	1570508950	*Subhashree Subudhi, Ram Narayan Patro and Pradyut Kumar Biswal*, "Filtering Based Spatial-Spectral Feature Extraction for Hyperspectral Image Classification"
	1570508990	*Oinam Vivek Singh and Prakash Choudhary, "*A Study on Convolution Neural Network for Breast Cancer Detection"

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Track-IX: Electrical and Electronics Devices and Power Systems | Venue: AP Lab

Day II
Date: 26th February 2019 (Tuesday)
Time: 2.00-8.00 PM

Session Chair: Dr. Singam Jayanthu, National Institute of Technology, Rourkela, India
Co-Chair: Dr. Ravinder Agarwal, Thapar Institute of Engineering and Technology, India

Paper #	Paper Details
1570496794	*Kamal Sapkota and Chandra Sharma*, "Harmonic Analysis and Comparison Between Single Phase Three-Level Pulse Width Modulation (PWM) Inverter and Sinusoidal Pulse Width Modulation (SPWM) Inverter Implementing Analog Circuits"
1570497446	*Santanu Mallick and Ujjwal Mondal*, "Comparative Performance Study of Lyapunov Based MRAC Technique and MRAC Augmented with PID Controller for Speed Control of a DC Motor"
1570502516	*Narendra Chaulagain, Vasudha Hegde, Veda Sandeep Nagaraja and Veerapandi N*, "Design and Performance Analysis of Piezoresistive Circular Diaphragm Based Acoustic Sensor"
1570502741	*Shreyas S Bharadwaj, Dinesh Yadav and Manish Tiwari*, "Design of an Automatic Dependent Surveillance-Broadcast (ADS-B) Monopole Antenna with Modified Ground Plane"
1570503723	*Siddhartha Siddhartha and Maya Pai*, "Analysis of Weather Parameters on Electrical Energy Consumption of a Residential Building"
1570503956	*Chayanika Sharma, Babak Montazer and Utpal Sarma*, "Optimisation and Implementation of a Vibrational Induced Energy Based Sensor System Using PVDF Cantilever"
1570503963	*Raseswari Pradhan, "*Design and Analysis of an H_∞ Controller for a Single-Phase Grid Connected Photovoltaic System with Parametric Uncertainties"
1570503974	*Zohming Liana, Lalthanpuii Khiangte, Satyabrata Dash and Rudra Sankar Dhar, "*Drift Diffusion and Advance Hydrodynamic Simulation for the Design of Double-Gate SOI MOSFET in Nano-Scale Regime"
1570504042	*Tapash Kr. Das, Ayan Banik, Surajit Chattopadhyay and Arabinda Das*, "FFT Based Classification of Solar Photo Voltaic Microgrid System"
1570504222	*Sulav Ghimire, Prabhat Dhital and Arbind Mishra*, "Small Signal Stability Analysis Toolbox: A MATLAB Based GUI"
1570504302	*Tika Pokhrel and Rudra Sankar Dhar*, "Design and Analysis of Differentially Graded Double Gated Junctionless Transistors"
1570504782	*Sulav Ghimire*, "Necessary Reforms on Integrated Nepal Power System (INPS) and Role of Government Sector: Lessons to Learn from Developed Countries"
1570504956	*Deepak Kumar Lal, Ajit Barisal and Satya Dinesh Madasu, "*AGC of a Two Area Nonlinear Power System Using BOA Optimized FOPID+PI Multistage Controller"

	1570505228	*Md Kamal, Imtiaz Ashraf and Eugene Fernandez*, "Energy Resource Planning for a Rural Microgrid: Comparison of Results using Different Optimization Algorithms"
	1570505322	*Sheeba Percis E, "*Reactive Power Compensation Using Fuzzy Logic Controlled UPFC in a Hybrid Microgrid"
	1570507352	*Devnath Shah and Saibal Chatterjee, "*An Efficient Common Cumulative Power Method for Market Clearing in Day Ahead Electricity Market"
	1570507413	*Sushant Chaudhari, Pramod Shendge and Shrivijay Phadke, "*Disturbance Observer Based Model Following Controller for Four Wheel Steering Vehicles"
	1570507483	*Vijayraj Wanaskar, Pramod Shendge and Shrivijay Phadke, "*A Disturbance Observer Based Sliding Mode Control for Anti-Lock Braking System"
	1570507526	*Dipanjan Ghose, Sreejita Naskar and Shabbir Uddin, "*Q-GIS-MCDA Based Approach to Identify Suitable Biomass Facility Location in Sikkim (India)"
	1570507711	*Siddhartha Siddhartha, Vipin Valsan, Ankit Kapoor and Suyash Gupta, "*Energy Conservation in Centrally Airconditioned Buildings Through Energy Modeling"
	1570508474	*Pakkiraiah Bhupanapati, PaulRatnakanth Pallam, HariBabu CH, V Hemanth Kumar, Gubba Sriviswanadh, Arisetti Manoj, Sunki reddy Venkat ramana and Edara Sreelatha, "*Asynchronous Motor Drive's Improved Performance and Analysis with a New Modified Artificial Neural Network Based MPPT Controller"
	1570508723	*Ashwathi Suresh, Jane Salis and Shailesh R, "*Lighting Optimization to Save Energy in an Indoor Sports Facility"
	1570508731	*Jane Salis, Ashwathi Suresh and Shailesh R, "*Lighting Design of an Indoor Sports Facility- A Case Study"

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Special Track-IX: Machine Learning Paradigms for Text Analysis and Bio-Signal Processing | Venue: PGR-I Lab

Day II Date: 26th February 2019 (Tuesday) Time: 2.00-4.00 PM	Session Chair: Dr. Kamal Sarkar, Jadavpur University, Kolkata, India Co-Chair: Dr. Aakanksha Sharaff, National Institute of Technology, Raipur, India	
	Paper #	**Paper Details**
	1570483329	*Pradeep Kumar Tiwari; T Velayutham; Gyanendra Singh; Bivas Mitra,* "Behaviour Based Authentication: A New Login Strategy for Smartphones"
	1570504058	*Habib Masum,* "Spider Chart Based Pictographic Image Comparison in Walking Speed Estimation"
	1570504114	*Akhil VM; Jobin Varghese; Rajendrakumar P. k.; Sivanandan K. S,* "Effect of VMD Decomposition of Soleus Muscle EMG in SVM Classification"
	1570507714	*Najumnissa D; Alagumariappan Paramasivam; Bakiya A; Mohamed Syed Ali,* "Analysis on the Effect of ECG Signals While Listening to Different Genres of Music"
	1570507749	*Prithwijit Mukherjee; Anisha Halder Roy,* "Detection of Stress in Human Brain"
	1570507773	Muditha Tissera; Ruvan Weerasinghe, "Auto Generation of Gold Standard, Class Labeled Data Set and Ontology Extension Tool"
	1570507885	*Anjali S; Meera M; MG Thushara,* "A Graph Based Approach for Keyword Extraction from Documents"
	1570507973	*Gouri Panda; Indrani Sahu; Susant Das,* "A Rough Set Approach for Knowledge Acquisition on Vector-Borne Diseases"

Special Track-I: Computational Neurosciences, Cognition, Bio-medical Engineering and Biotechnology | Venue: PGR-I Lab

Day II Date: 26th February 2019 (Tuesday) Time: 4:15-6.00 PM	Session Chair: Dr. Tapan Kumar Gandhi, Indian Institute of Technology, Delhi	
	Paper #	**Paper Details**
	1570492242	*Satyabrat Malla Bujar Baruah; Plabita Gogoi; Soumik Roy*, "From Cable Equation to Active and Passive Nerve Memrbane Model"
	1570497066	*Biswajit Das; Satyabrat Malla Bujar Baruah; Soumik Roy*, "Velocity Profile of Alpha(A) Type and Gamma(r) Type Motor Neuron and Type III and Type IV Sensory Neuron"
	1570503890	*Abhishek Jaju; Kamal Sharma; Namita Singh; Neeraj Jain; Soumitra Kar*, "A Brain-Computer Interface for Arbitrary Pick and Place Tasks"
	1570507726	*Vijaya Harshita Tutari; Bijoy Das; Dipanwita Roy Chowdhury,* "A Continuous Role-Based Authentication Scheme and Data Transmission Protocol for Implantable Medical Devices"

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Track-I: Advanced Computational Paradigms | Venue: PGR-II Lab

Day II Date: 26th February 2019 (Tuesday) Time: 2.00-4.00 PM	Session Chair: Dr. Nibaran Das, Jadavpur University, Kolkata, India Co-Chair: Dr. Annapurna P Patil, Ramaiah Institute of Technology, Bangalore, India	
	Paper #	**Paper Details**
	1570497105	*Abhishek Jaju, Namita Singh and Sanjeev Sharma*, "Autonomous Robotics Rearrangement Of Nuclear Fuel Pellets For Formation Of Fixed Length Stacks"
	1570503927	*Ambika P S, Rajendrakumar P. K. and Rijil Ramchand, "*An Approach to Rolling Bearing Fault Diagnosis Using Fractal Descriptors and Regularized Lesat Squares"
	1570507376	*Jamuna S., Dinesha P., Shashikala K. P. and Kishore Kumar K.*, "Area Optimized Run –time Reconfigurable ALU For Digital Systems"
	1570507777	*Sibun Parida ,Deepanjali Sharma and Zhumur Ghosh*, "AccessE-Algorithm to Detect the Accessible Segments During IncRNA-mRNA Interactions"

Track-III: Cyber Security and Data Forensics | Venue: PGR-II Lab

Day II Date: 26th February 2019 (Tuesday) Time: 4.15-6.00 PM	Session Chair: Dr. Debabrata Samanta, Dayananda Sagar Institute of Technology, Bangalore, India	
	Paper #	**Paper Details**
	1570487807	*Puneet Bakshi*, "Secure, Privacy Enhanced and Anonymous Communication Between Vehicle and Infrastruture"
	1570504022	*Anup Kumar Das and Mrinal Mandal, "*FPGA Based Chaotic Cryptosystem"
	1570504028	*Jayashree Karmakar, Debashis Nandi and Mrinal Mandal*, "Hyper-chaotic Image Encryption Using ACM and GBS"

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Special Track-III: Internet of Things (IoT) and Blockchain | Venue: MP Lab

	Session Chair: Dr. Anirban Das, University of Engineering & Management, Kolkata, India	
Day II Date: 26th February 2019 (Tuesday) Time: 2.00-4.00 PM	**Paper #**	**Paper Details**
	1570498180	*Mostafizur Laskar; Prasanta Kr.Sen; Shyamal Das Mandal* , "An IoT -based E-Health System Integrated with Wireless Sensor Network and Air Pollution Index"
	1570503862	*Rahatara Ferdousi; Parichay Mandal*, "LOAMY: a Cloud-based Middleware for CoAP-based Iot Service Discovery"
	1570504115	*Varun M Tayur; R Suchitra*, "A Comprehensive Ontology for Internet of Things (COIoT)"
	1570507442	*Sayan Hazra; Naburna Sengupta; Atana Pal; Somdeep Acharyya; Biplab Satpati*, "An Innovative Position Detection Pathway to Facilitate Low-Cost Home Automation"
	1570507953	*Pushpa PV*, "Internet of Things Based Context Aware Health Care Services"
	1570507972	*Nayana Hegde; Sunilkumar S. Manvi*, "MFZKAP: Multi-Factor Zero Knowledge Proof Authentication for Secure Service in Vehicular Cloud Computing"
	1570508081	*Ishita; Divya Kulkarni; Tushar Semwal; Shivshankar B. Nair*, "On Securing Mobile Agents Using Blockchain Technology"

Special Track-V: Big Data Analytics and Social Networking | Venue: MP Lab

	Session Chair: Dr. Hardeo Kumar Thakur, Manav Rachana University, Faridabad, India	
Day II Date: 26th February 2019 (Tuesday) Time: 4.15-6.00 PM	**Paper #**	**Paper Details**
	1570497179	*Praneetha Bose Kollipara; Lokesh Rgalla; Goldina Ghosh; Nivedita Kasturi*, "Selecting Project Team Members Through MBI Method: An Investigation with Homophily and Behavioural Analysis"
	1570497486	*Hema Shekhawat; Samiksha Sharma; Reetika Koli*, "Privacy-Preserving Techniques for Big Data Analysis in Cloud"
	1570507161	*Amita Kapoor; Narotam Singh; Vineeta Motilal*, "Modelling Social Networks Using Modified Hopfield Neural Network and Identity Leadership Traits"
	1570507493	*Guesh Dagnew; B H Shekhar*, "Grid Search-Based Hyperparameter Tuning and Classification of Microarray Cancer Data"

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ICACCP'19: Project Showcase & Poster Presentation | Venue: C Quad

	Paper #	Paper Details
Day II Date: 26th February 2019 (Tuesday) Time: 2.00-6.00 PM	1570495902	*Parimita Saikia; Anup Kr. Bordoloi* , "Study of Modified Rectangular Patch Antenna for Tuning Resonant Frequency in S- Band"
	1570496138	*Jyoti Grover*, "On Demand Multipath Routing Protocol for Emergency Ad Hoc Networks"
	1570502741	*Shreyas S Bharadwaj; Dinesh Yadav; Manish Tiwari*, "Design of an Automatic Dependent Surveillance-Broadcast (ADS-B) Monopole Antenna with Modified Ground Plane"
	1570502868	*Tiken Singh Moirangthem; Parismita Bharali; Chandrika Bhuyan*, "Automated Detection of Diabetic Retinopathy"
	1570503865	*Ginika Mahajan; Bhavna Saini*, "Malware Classification Using Machine Learning Algorithms and Tools"
	1570504042	*Tapash Kr. Das; Ayan Banik; Surajit Chattopadhyay; Arabinda Das*, "FFT Based Classification of Solar Photo Voltaic Microgrid System"
	1570508353	*Shruti Bhandari*, "Spectrum Sharing in Cognitive Radio Networks for 5G Vision"
	1570514008	*Saswati Bhattacharya; Mousumi Gupta*, "A Survey on: Facial Emotion Recognition Invariant to Pose, Illumination and Age"

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Track-VII: Adaptive Computation and Machine Learning | Venue: AP Lab

Day III Date: 27th February 2019 (Wednesday) Time: 2.30-6.00 PM	Session Chair: Dr. Sreeparna Banerjee, West Bengal University of Technology, India Co-Chair: Dr. Hamada Naoki, Fujitsu Laboratories Ltd., Japan	
	Paper #	**Paper Details**
	1570497790	*Shubham Mohapatra*, "Segmentation Using Support Vector Machines"
	1570503865	*Ginika Mahajan and Bhavna Saini*, "Malware Classification Using Machine Learning Algorithms and Tools"
	1570503897	*Rohith P, Sidharth Sasi Kumar and Anju RC, "*Keyword Extraction from Malayalam News Articles Using Conditional Random Fields"
	1570504802	*Monalisa Jena and Satchidananda Dehuri*, "Entropy Based Bayes' Rule for Coping Dimensionality Reduction in Predictive Task of Data Mining"
	1570504867	*V Vaidhehi and R Suchithra*, "An Enhanced Approach Using Collaborative Filtering for Generating Under Graduate Program Recommendations"
	1570507354	*Devnath Shah and Saibal Chatterjee*, "Optimal Placement of Time Flexible Supplier's Block Bid in a Day-Ahead Electric Market Using Genetic Algorithm"
	1570507827	*Abhijit Banerjee, Dipendranath Ghosh and Suvrojit Das*, "Evolving Network Topology in Policy Gradient Reinforcement Learning Algorithms"
	1570507840	*Pritam Anand and Amisha Bharti*, "A Combined Reward-Penalty Loss Function Based Extreme Learning Machine for Binary Classification"
	1570510582	*Ashish Kumar Layek, Soham Poddar and Sekhar Mandal, "*Detection of Flood Images Posted on Online Social Media for Disaster Response"
	1570510584	*Prajwal Kharel, Kalpana Sharma, Sunil Dhimal and Sital Sharma, "*Early Detection of Depression and Treatment Response Prediction Using Machine Learning: A Review"
	1570510666	*Sugata Das and Sekhar Mandal, "*Keyword Spotting in Historical Bangla Handwritten Document Image Using CNN"
	1570514008	*Saswati Bhattacharya and Mousumi Gupta, "*A Survey on: Facial Emotion Recognition Invariant to Pose, Illumination and Age"
	1570517079	*Annapurna Patil, Anushri Srinath, Atif Adib, Dimple Doshi and Darshan Dalsaniya, "*Scalable Activity Recognition Framework Using Ensemble Models"

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Track-II: Networking and Data Communications | Venue: MP Lab

Day III **Date: 27th February 2019 (Wednesday)** **Time: 2.00-6.00 PM**	Session Chair: Dr. Nabendu Chaki, University of Calcutta, Kolkata, India Co-Chair: Dr. Hiren Deva K. Sarma, Sikkim Manipal Institute of Technology, Sikkim, India	
	Paper #	**Paper Details**
	1570495902	*Parimita Saikia and Anup Kr. Bordoloi*, "Study of Modified Rectangular Patch Antenna for Tuning Resonant Frequency in S-Band"
	1570496138	*Jyoti Grover*, "On Demand Multipath Routing Protocol for Emergency Ad Hoc Networks"
	1570503163	*Kuntal Gaur*, "Exploring VANET Using Edge Computing and SDN"
	1570503808	*Bollepally Sandhya Rani and Kattula Shyamala*, "Energy Efficient Load Balancing Approach for Multipath Routing Protocol in Ad Hoc Networks"
	1570503952	*Kamlendra Chandra, Amit Jagtap, Nihar Ranjan and Sangeeta Srivastava, "*Design of PCIe-DMA Bridge Interface for High Speed Ethernet Applications"
	1570507083	*J. Sathish Kumar, Saurabh Pandey, Mukesh Zaveri and Meghavi Choksi, "*Geo-fencing Technique in Unmanned Aerial Vehicles for Post Disaster Management in the Internet of Things"
	1570507780	*Avinash More*, "Fault-Tolerant Scheduling for Distributed Sensor Networks"
	1570507831	*Saurabh Pandey and Mukesh Zaveri, "*A Graph-based Communication Algorithm Using Collaborative Computing Scheme in the Internet of Things"
	1570507915	*Deepak Kumar,Banani Talukdar and Wasim Arif*, "Performance Analysis of Prediction Based Sensing in Energy Harvesting Cooperative CRN"
	1570508353	*Shruti Bhandari, "*Spectrum Sharing in Cognitive Radio Networks for 5G Vision"
	1570508704	*Debasis Das*, "An Efficient Opportunistic Routing Algorithm in Vehicular Adhoc Networks (VANETs)"

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Track-VI: Computational Intelligence | Venue: PGR -I Lab

	Session Chair: Dr. Paramartha Dutta, Visva Bharati University, Santiniketan, India	
	Paper #	**Paper Details**
Day II Date: 27th February 2019 (Wednesday) Time: 2.00-6.00 PM	1570502508	*Ankit Anand*, "Raga Identification Using Convolutional Neural Network"
	1570503167	*Sasmita Kumari Nayak, "*Dynamic Task Scheduling Problem Based on Grey Wolf Optimization Algorithm"
	1570503223	*Gurinder Kaur and Parminder Singh, "*Formant Text to Speech Synthesis Using Artificial Neural Networks"
	1570507644	*Karan Shah, B. K. Tripathy, and Sharmila Banu K*, "Neighborhood Rough Set Based Similarity Measurement Of subzones Affected by West Nile Virus"
	1570507900	*Tarak Paul, "*Smart Routing Using Fuzzy System and Genetic Algorithm"
	1570507961	*Palash Dutta*, "An Advanced Dice Similarity Measure of Fuzzy Numbers and Its Application in Multi-criteria Decision Making"
	1570508721	*Lekshmi M and Adithya Subramanya K. N, "*Short-Term Load Fore Casting of 400kV Grid Substation Using R-Tool and Study of Influence of Ambient Temperature on the Forecasted Load"
	1570508853	*Krishna Prasad Pamulapati, "*WSN Energy Optimization: Evolutionary Approach"
	1570512260	*Sandip Dey, Sourav De, Dhrubajyoti Ghosh, Debanjan Konar, Siddhartha Bhattacharyya and Jan Platos*, "A Novel Quantum Inspired Sperm Whale Meta-heuristic for Image Thresholding"

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Track-IV: Signal Processing and Communication Engineering | Venue: PGR-II Lab

Day III Date: 27th February 2019 (Wednesday) Time: 2.00-6.00 PM	Session Chair: Dr. Iti Saha Misra, Jadavpur University, Kolkata, India Co-Chair: Dr. Barnali Dey, Sikkim Manipal Institute of Technology, Sikkim, India	
	Paper #	**Paper Details**
	1570486045	*Satyasis Mishra*, "Detection and Classification of Brain Tumor Tissues from Noisy MR Images Using Hybrid ACO-SA Based LLRBFNN Model and Modified FLIFCM Algorithm"
	1570497036	*Kamakshi Rautela*, "BER Performance of Gray-Coded PSK-Modulated and QAM-Modulated MIMO Systems"
	1570497338	*Sourav Moitra, Shilpa Nayak and Fauzia Naseem*, "Circular Complementary Split Ring Resonators (CSRR) Based SIW BPF"
	1570500161	*Tanmoy Kundu, Iti Saha Misra and Salil Kumar Sanyal* , "Developing a 3D Beam Former Model with Varied MIMO Channels"
	1570503080	*Ankit Tiwari*, "A Novel Oscillator with Different Nature of the Equilibria and Its Analysis"
	1570506951	*Mostafizur Laskar. Prasanta Kr Sen, Ishita Paul, Saptargha Das and Sudipta Ghosh, "*Principal Feature Extraction from Regional Speech in Emergency Communication"
	1570507497	*Geetanjali Srivastava and Shiv Dutt Joshi*, "Harmonic Decomposition of ECG Signal Using Analytic Signal Matched Filter Bank"
	1570507511	*Amandeep Kaur, Sanjay Kumar, Alpana Agarwal and Ravinder Agarwal, "*A Novel Thresholding Technique for R-peak Detection in ECG"
	1570507515	*Praveen Singh, Neeharika Pisipati, Pisipati Radha Krishna and Munaga V N K Prasad, "*Social Signal Processing for Evaluating Conversations Using Emotion Analysis and Sentiment Detection"

Special Track-IV: Next Generation Computing and Communications | Venue: CA Lab

	Session Chair: Dr. Jaya Sil, Indian Institute of Engineering Science and Technology, India	
Day III Date: 27th February 2019 (Wednesday) Time: 2.00-6.00 PM	**Paper #**	**Paper Details**
	1570503524	*Anonnya Banerjee; Alaa Noor; Nasrin Siddiqua; Mohammed Nazim Udin*, "Significance of Attribute Selection in the Classification of Chronic Renal Disease"
	1570503874	*Hitesh Kumar Reddy Toppireddy; Bhavna Saini; Priyank Hada*, "Academic Enhancement System Using EDM Approach"
	1570507447	*Kamal Sarkar*, "Sentiment Polarity Detection in Bengali Tweets Using LSTM Recurrent Neural Networks"
	1570507484	*Prosanta Kumar Chaki; Md.Mozammel Saza; Biman Barua; Md. Shahadat Hossain; Khaled Sohel Mohammed* , "An Approach of Teachers Quality Improvement by Analysing Teaching Evaluations Data"
	1570510110	*Samson Anosh Babu P; Chandra Sekhar Rao Annavarapu; Abhilash Mohapatra*, "A Novel Method for Next – Generation Sequence Data Analysis Using PLSA Topic Modeling Technique"

Special Track-II: Human Computer Interaction, Mechatronics and Robotics | Venue: PGR-I Lab

	Session Chair: Dr. Sourish Sanyal, Cooch Behar Government Engineering College, India	
Day IV Date: 28th February 2019 (Thursday) Time: 9.30-10.30 AM	**Paper #**	**Paper Details**
	1570497783	*Shubham Mohapatra; Rachit Srivastava; Rupesh Khera,,* "Implementation of a Two Wheel Self-Balanced Robot Using MATLAB Simscape Multibody"
	1570505572	*Sai Siddartha Maram; Tanuj Vishnoi; Sachin Pandey*, "Neural Network and ROS Based Threat Detection and Patrolling Assistance"
	1570507833	*Tutan Nama; Suman Deb*, "2D Object Transformation by Mapping of Hand Gesture Using Leap Motion Controller"

Special Track-VI: Material Science and Nano Technology | Venue: PGR II Lab

Day IV Date: 28th February 2019 (Thursday) Time: 9:30-10.30 AM	Session Chair: Dr. Somenath Chatterjee, Sikkim Manipal Institute of Technology, India	
	Paper #	**Paper Details**
	1570491693	*Ajayakumar C Katageri*, "Sensitivity Enhancement of Piezoresistive Pressure Sensor Using Carbon Nanotube as a Piezoresistor"
	1570497529	*Kuleen Kumar; Lalthanpuii Khiangte; Rudra Sankar Dhar*, "Design of Double Gate Nano-FET"
	1570508872	*Shameem Ahmed; Mohd Adil Raushan; Mohammad Jawaid Siddiqui; Parvez Alvi; Snadhya Kattayat*, "Improvement in Efficiency Droop of Green Light Emitting Diode Using Lttice Matched Barrier"

Special Track-VIII: Geographical Remote Sensing and Geographic Information Systems | Venue: MP Lab

	Session Chair: Dr. Saurabh Das, Indian Institute of Technology, Indore, India	
Day IV Date: 28th February 2019 (Thursday) Time: 9.30-10.30 AM	**Paper #**	**Paper Details**
	1570503255	*Pranoy Ghosh; Arijit De,* "Role of Humidity Content on Atmospheric Turbulence and Essay on Earthquake Precursor Studies"
	1570504017	*Giridhar Urkude; Manju Pandey*, "AgriSense: Automatic Irrigation Utility System Using Wireless Sensor Network and Web of Things"
	1570507122	*Suresh Kumar M; V Keerthi; RN Anjani; Ch Venkateswara Rao, "*Generation of Vegetation Fraction (VF) from Resourcesat-2 AWiFS Images"
	1570507131	*Saritha PK; Jayabharathi Sethuraman; RN Anjani; Ch Venkateswara Rao*, "Quantification of Particulate Matter Using Haze Optimized Transform (HOT) of Oceansat-2 OCM Data"
	1570507890	*Prava Adhikari; Swastika Chakraborty; Sanat Das*, "Use of Remote Sensing Data for Exploring Potential Evapotranspiration over Gangtok"

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Track-VIII: Industrial Applications | Venue: AP Lab

	Session Chair: Dr. Hamada Naoki, Fujitsu Laboratories Ltd., Japan	
Day IV Date: 28th February 2019 (Thursday) Time: 9:30-11:30 AM	**Paper #**	**Paper Details**
	1570491903	*Pankaj Agarwal and Mukesh Singh*, "A Multipurpose Drone for Water Sampling & Video Surveillance"
	1570498257	*Asmita Manna, Anirban Sengupta and Chandan Mazumdar*, "EDPRL: A Language for Specifying Data Privacy Requirements of Enterprises"
	1570498529	*Nafisa Mehzbin, Atiqur Rahman and Parismita Sarma*, "e-Learning for Children on Flora of North East India"
	1570504775	*Amarnath Pathak, Partha Pakray and Ranjita Das*, "LSTM Neural Network Based Math Information Retrieval"
	1570507068	*Amandeep Singh Dhanjal and Williamjeet Singh*, "Comparative Analysis of Sign Language Notation Systems for Indian Sign Language"
	1570507671	*Abhay Kumar Sinha, Danish Ali Khan,Tarni Mondal and Bal Mukund Singh,* "Integrated Single-Vendor Single-Buyer Inventory Mode with Imperfect Production and Inspection by Vendor"
	1570507698	*Aliva Bakshi, Satyaki Chatterjee and Nabendu Chaki*, "A Novel Approach for Maintaining Consistency in Distributed File System"
	1570507848	*Nomi Baruah, Shikhar Kr. Sarma and Surajit Borkotokey*, "Text Summarization in Indian Languages: A Critical Review"
	1570507908	*Anirbit Sengupta, MD Tausif Mallick and Abhijit Das*, "Designing of a Remote Sensor System with Data Logging and Temperature Sensing Facility"
	1570507950	*Parth Shah and Vishvajit Bakrola*, "Neural Machine Translation System of Indic Languages - An Attention Based Approach"

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Special Track-VII: Graph, Geometric Algorithms and Applications | Venue: CA Lab

Day IV Date: 28th February 2019 (Thursday) Time: 9:30-10.30 AM	Session Chair: Dr. Biswajit Deb, Sikkim Manipal Institute of Technology, Sikkim, India	
	Paper #	**Paper Details**
	1570502992	*Bhadrachalam Chitturi, "*Perturbed Layered Graphs"
	1570510329	*Indulekha T S; Bhadrachalam Chitturi, "*Analysis of Algorithm $\Delta*$ on Full Binary Trees"