



ICCVBIC 2017



for

**International Conference On
Computational Vision and Bio Inspired
Computing (ICCVBIC 2017)**

21-22, September 2017



Springer



ICCVBIC 2017

CONFERENCE DAY 1 (21th September 2017)

Registration : 08.00am – 11.00 am

Inauguration : 08.45am – 09.15 am

Keynote Address : 09.15am – 10.00 am

Tea Break : 10.00am – 10.30 am

Session I : 10.30am – 12.30 pm

Lunch Break : 12.30pm – 01.30 pm

Session II : 01.30pm – 03.30 pm

Tea Break : 03.15pm – 03.45 pm

Session III : 03.45pm – 06.30 pm



Note:

Every session was associated with parallel sessions.

Venue:

The Inauguration and the Keynote address @ Main Auditorium – Second floor

Parallel session I @ @ Main Auditorium – Second floor

Parallel session II @ Seminar Hall –II – First Floor

Parallel session III @ Seminar Hall –III – First Floor

Valedictory Function at 6.30 PM

Venue: Hotel Arcadia, Coimbatore.

Presentation Details:

Presentation Time: 15 Minutes per paper

Format; PPT



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SESSION:1 PARALLEL SESSION 1

Sl.No	Topic	Author	Time
1	Genetic Algorithm Based Hybrid Attribute Selection Using Customized Fitness Function	C.Arunkumar, S.Ramakrishnan, Siva Sai Dheeraj	10:30 –10:45 AM
2	Application of Evolutionary Particle Swarm Optimization Algorithm in Test Suite Prioritization	Anuradha Chug, Neha Narula	10:45 –11:00 AM
3	A comprehensive study on the usefulness of Multi-objectives in Recommender Systems	Sruthi M, Sini Raj Pulari, Gowtham Ramesh	11:00 –11:15 AM
4	Visual Analysis of Genetic Algorithm Solving 0-1 Knapsack Problem	Sathyajit B.P, C. Shunmuga Velayutham	11:15 –11:30 AM
5	A Study on Fuzzy Weakly Ultra Separation Axioms Via Fuzzy $\mu\beta$ –Kernel Set	J.Subashini, K.Indirani	11:30 –11:45 AM
6	Hybridized User Recommendation in Online Social Network	Christiyana Arulselvi A, Sendhilkumar S, Mahalakshmi G.S	11:45 –12:00 PM
7	E-Health Design With Spectral Analysis, Linear Layer Neural Networks And Adaboost Classifier For Epilepsy Classification From EEG Signals	Harikumar Rajaguru, Sunil Kumar Prabhakar	12:00 – 12:15 PM
8	Detection of Brain Tumor Using Otsu-Region Based Method of Segmentation	Sahebgoud H Karaddi1 , Dr.Vinayadatt V.Kohir2 ,C Rama Krishna Reddy	12:15 –12:30 PM



SESSION 1, PARALLEL SESSION 2

Sl.No	Topic	Author	Time
1	Query by Example - Retrieval of Images Using Object Segmentation and Distance Measure	S. Sathya, Latha Parameswaran, R. Karthika	10:30 –10:45 AM
2	Role of Data Analytics in Blended Learning Models of Educational Technology	Dr. Ananthi Sheshasaayee, S.Malathi	10:45 –11:00 AM
3	Grayscale Image Encryption Based On Symmetric-Key Latin Square Image Cipher (LSIC)	Pawan Kumar V, Smitha Sasi, Dr. A R Aswatha	11:00 –11:15 AM
4	Air Pollution Modelling From Metrological Parameters Using Artificial Neural Network	Sateesh.N.Hosamane, G.P.Desai	11:15 –11:30 AM
5	Segmentation of Brain Parts from MRI Image Slices using Genetic Algorithm	Vikram K, Hema P Menon, Dhanya M Dhanalakshmy	11:30 –11:45 AM
6	A Vision Based Dcnn For Identify Bottle Object In Indoor	Lolith Gopan,R Aarthi	11:45 –12:00 PM
7	Personalized Research Paper Recommender system	Thota Sripadh, Gowtham Ramesh	12:00 –12:15 PM
8	An Automated Vision Based Change Detection Method For Planogram Compliance In Retail Stores	Muthugnanambika M, Ms. Bagyammal T , Dr.Latha Parameswaran, Dr.Karthikeyanvaiapury	12:15 –12:30 PM
9	Segmentation Of MRI Brain Images And Creation Of Structural And Functional Brain Atlas	Hema P Menon,Reshma Hiralal, Anand Kumar A and Davidson Devasiya.	12:30 – 12:45PM



SESSION 1, PARALLEL SESSION 3

Sl.No	Topic	Author	Time
1	Fuzzy Optimization With Modified Adaboost Classifier For Epilepsy Classification From EEG Signals	Harikumar Rajaguru, Sunil Kumar Prabhakar	10:30 –10:45 AM
2	Application Of Morphological Filtering With Modifications In Linear Discriminant Analysis Classifier For Epilepsy Classification From EEG Signals	Harikumar Rajaguru, Sunil Kumar Prabhakar	10:45 –11:00 AM
3	Mango Leaf Unhealthy Region Detection And Classification	Srunitha k, D Bharathi	11:00 –11:15 AM
4	Enhanced Defogging System On Foggy Digital Color Images	Sarath Krishnan, B.A Sabarish, Gayathri.V, S.Padmavathi	11:15 –11:30 AM
5	Identification Of The Risk Factors Of Type II Diabetic Data Based Support Vector Machine Classifiers Upon Varied Kernel Functions	A.Sheik Abdullah , N.Gayathri, S.Selvakumar and S.Rakesh Kumar	11:30 –11:45 AM
6	Biomedical Voice Based Parkinson Disorder Identification For Homosapiens	B.Anusha, P.Geetha	11:45 –12:00 PM
7	Cancelable Biometrics using Geometric transformations and Biohashing	R.Parkavi , K.R.Chandeesh Babu, T.Neelambika ,P.Shilpa	12:00 –12:15 PM
8	Automated Tool for Assessment of Satellite Image Quality and Characteristics	Muni Deepak P, V.Kamalaveni, E.Venkateswarlu, Thara Nair, G.P.Swamy, B.Gopala Krishna	12:00 –12:30 PM



SESSION 1, PARALLEL SESSION 4

Sl.No	Topic	Author	Time
1	Kernel Based Approaches For Context Based Image Annotation	Swati Nair L, Ms R Manjusha, Dr. Latha Parameswan	10:30 –10:45 AM
2	Early Detection Of Lung Cancer Using Wavelet Feature Descriptor And Feed Forward Back Propagation Neural Networks Classifier	Arulmurugan R, Anandakumar H	10:45 –11:00 AM
3	Meta heuristic Technique for Biomedical Image Watermarking	Dr. Saju Subramanian , Dr. G. Thirugnanam	11:00 –11:15 AM
4	Detection and Rectification of Distorted Plain and Rolled Fingerprints	Vinutha Dev , Nisa A.K	11:15 –11:30 AM
5	Diagnosis of Carious Legions using Digital Processing of Dental Radiographs	Raghav Agarwal, Dr. Harsh Vikram Singh	11:30 –11:45 AM
6	Development of Glare recognition for Advanced Driver Assistance Systems	Madan N, Dr. Geetha K S	11:45 –12:00 PM
7	High Resolution Remote Sensing Image Denoising Algorithm based on Sparse Representation and Adaptive Dictionary Learning	Yuwei Qiu , Yuda Bi , Yang Li, Haoxiang Wang	12:00 –12:15 PM
8	4-Share VCS Based Image Watermarking For Dual RST Attacks	Sheshang D. Degadwala, Dr. Sanjay Gaur	12:00 –12:30 PM



SESSION 1, PARALLEL SESSION 5

Sl.No	Topic	Author	Time
1	An Intelligent Framework for Road safety and driver behavioral change detection system Using Machine Intelligence	Idhant Haldankar, Mohit Tiwari, G. Usha	10:30 –10:45 AM
2	Highlight Generation of Cricket Match Using Deep Learning	Midhu K, AnanthaPadmanabhan N K	10:45 –11:00 AM
3	Detection of Pulmonary Nodules using Thresholding and Fractal Analysis	Dr. Deepa Jose, Deepthi Ramesh, Keerthana R, Krishnaveni V	11:00 –11:15 AM
4	PSO based blind deconvolution technique of image restoration using cepstrum domain of motion blur	Ramteke Mamta G., Dr. Maitreyee Dutta	11:15 –11:30 AM
5	Traffic Density Analysis Employing Locality Sensitive Hashing	Sowmya K , P N Kumar	11:30 –11:45 AM
6	A Novel Transfer Learning Approach upon Hindi, Arabic, and Bangla Numerals using Convolutional Neural Networks	Abdul Kawsar Tushar, Akm Ashiquzzaman, Afia Afrin, Md. Rashedul Islam	11:45 –12:00 PM
7	Diabetic Retinopathy Detection in Fundus Image Using Cross Sectional Profiles and ANN	Smitha M,Nisa A K	12:00 –12:15 PM
8	Lung Cancer Detection In CT image Using Discrete Wavelet Transform And Artificial Neural Network	Danish v, Mohammed Siyad B	12:00 –12:30 PM



SESSION 2, PARALLEL SESSION 1

Sl.No	Topic	Author	Time
1	Computer Aided Diagnosis Of Skin Tumours From Dermal Images	T.R.Thamizhvani, Dr. Suganthi Laxmanan, Dr.R.Sivaramakrishnan	01:30 –01:45 PM
2	Cane Free Obstacle Detection Using Sensors And Navigational Guidance Using Augment Reality For Visually Challenged People	Sriram Ramachandran, Prashant R. Nair, Shriram K. Vasudevan	01:45 –02:00 PM
3	Premature Cardiac Verdict Plus Classification Of Arrhythmias And Myocardial Ischemia With K-NN Classifier	Inbalatha.M* , Dr.Kalaivani.S	02:00 –02:15 PM
4	Perceptual Features Based Rapid And Robust Language Identification System For Various Indian Classical Languages	A.Revathi, C.Jeyalakshmi, T.Muruganantham	02:15 –02:30 PM
5	Simulation Of Cortical Epileptic Discharge Using Freeman's KIII Model	Pooja Vijaykumar , Sunitha R, N. Pradhan, A. Sreedevi	02:30 –02:45 PM
6	An Autonomous Trust Model For Cloud Integrated framework	C.K.Shyamala, Ashwathi Chandran	02:45 –03:00 PM
7	Curvelet Based ECG Steganography For Protection Of Data	Vishakha Patil, Mrs. Mangal Patil	03:00 –03:15 PM
8	Image Tampering Detection based on Inherent Lighting Fingerprints	Manoj Kumar, Sangeet Srivastava	03:15 –03:30 PM



SESSION 2, PARALLEL SESSION 2

Sl.No	Topic	Author	Time
1	Sentiment analysis of Twitter data on demonetization using machine learning techniques	Dhanya N.M, Harish U.C	01:30 –01:45 PM
2	Clustering of Trajectory Data Using Hierarchical Approaches	Sabarish B.A, Karthi. R, Gireeshkumar T	01:45 –02:00 PM
3	A Deeper Insight on Developments and Real-Time Applications of Smart Dust Particle Sensor Technology	Shreya Sathyan, Sini Raj Pulari	02:00 –02:15 PM
4	An Algorithm For Text Prediction Using Neural Networks	Bernett Orlando, Aakash, Bindu K. R, Latha Parameswaran	02:15 –02:30 PM
5	Medical Diagnosis Through Semantic Web	Monika P, Vinutha M R, Srihari B N, Harikrishna S, Sumangala S M, G T Raju	02:30 –02:45 PM
6	Selection of Algorithms for Pedestrian Detection during Day and Night	Rahul Pathak, Sivraj P.	02:45 –03:00 PM
7	A types of Multi-Granular nanotopology and its applications	K. Indirani, G. Vasantha Kannan	03:00 –03:15 PM
8	Securing Image Posts In Social Networking Sites	Neethu.M.Ra,Dr.N.Harinib	03:15 –03:30 PM



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SESSION 2, PARALLEL SESSION 3

Sl.No	Topic	Author	Time
1	Reconstruction Of Recaptured Images Using Dual Dictionaries Of Edge Profiles	Hridhya J, Shyna A	01:30 –01:45 PM
2	Brain Tumor Segmentation based on Clustering using Pixel Intensity Variance of Pattern Recognition	Muthalakshmi.M, Dr.R. Dhanasekaran	01:45 –02:00 PM
3	Outlier Detection in Time-Series Data: Specific to Nearly Uniform Signals from the Sensors	Sourabh Suman¹, Dr. B. Rajathilagam	02:00 –02:15 PM
4	A Smart Energy Management System based on Image Analytics and Device Level Analysis	Birindha S, Ananthanarayanan V, Bagavathi Sivakumar P	02:15 –02:30 PM
5	Assisting Visually Challenged Person in the Library Environment	D.Kavin Kumar, Senthil Kumar Thangavel	02:30 –02:45 PM
6	Tensor Flow based Analysis and Classification of Liver Disorders from Ultrasonography images	Raghesh Krishnan K, Midhila M, R. Sudhakar	02:45 –03:00 PM
7	An Improvement Of Iterative Algebraic Reconstruction Technique By Using Bisectors: An Illustration In Computerized Tomography	Mohamad Soubra, Ömer Özgür Tanrıöver	03:00 –03:15 PM
8	A Powerful And Light Weight 3d Video Retrieval Using 3d Images Over Hadoop Mapreduce	C. Ranjith Kumar, S.Suguna	03:15 –03:30 PM



SESSION 2, PARALLEL SESSION 4

Sl.No	Topic	Author	Time
1	An Image Processing Technique for Compression of ECG Signals based on Region of Interest Strategy	Shreekanth T, Shashidhar R	01:30 –01:45 PM
2	Face Authentication Using Thermal Imaging	Athira S and O. V. Ramana Murthy	01:45 –02:00 PM
3	Meme Classification Using Textual and Visual Features	Smitha E S, Sendhilkumar S	02:00 –02:15 PM
4	Image based Group Happiness Intensity Analysis	Lakshmy V and O V Ramanamurthy	02:15 –02:30 PM
5	Earthquake Analysis: Visualizing seismic data with Python	Saksham Tulsyan, Bharat Bahl, Shivi Kaya , Thippa Reddy G	02:30 –02:45 PM
6	A Survey on Multi-Feature Hand Biometrics Recognition	GokulaKrishnan E, Malathi G	02:45 –03:00 PM
7	Early Detection And Classification Of Diabetic Retinopathy Using Empirical Transform And Svm	Sumandeep Kaur , Daljit Singh	03:00 –03:15 PM
8	Instill Dental Antennas for Minimally Interfering Bio-Medical Devices	T.Gomathi, Dr. S. Maflin Shaby , B.Priyadharshini3	03:15 –03:30 PM



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SESSION 2, PARALLEL SESSION 5

Sl.No	Topic	Author	Time
1	A Prototype to Detect Anomalies Using Machine Learning Algorithms and Deep Neural Network	A Malathi, Amudha J, Puneeth Narayana	01:30 –01:45 PM
2	Histogram Modification And Bi-Level Moment Preservation Based Reversible Watermarking	R.Rajkumar, A.Vasuki	01:45 –02:00 PM
3	Combining Diffusion Filter Algorithm With Super-Resolution For Abnormality Detection In Medical Images	Shilpa Joshi, Dr.R.K.Kulkarni	02:00 –02:15 PM
4	Wavelet Packet based Robust Medical Image Multiple Watermarking and Extraction using Independent Component Analysis	R.Nanmaran, G.Thirugnanam, P.Mangaiyarkarasi	02:15 –02:30 PM
5	Design of an algorithm for people identification using facial descriptors	Pranav V, R.Manjusha, Latha Parameswaran	02:30 –02:45 PM
6	A Portable Back Propagation Network Classifier For Lung Cancer Associated Volatile Organic Compound Detection	B.Priyadharshini, T.Gomathi, S.Maflin Shaby	02:45 –03:00 PM



SESSION 3, PARALLEL SESSION 1

Sl.No	Topic	Author	Time
1	Combined Classifier Approach For Offline Handwritten Devanagari Character Recognition Using Multiple Features	Milind Bhalerao, Abhijeet Nandedkar, Sushma Pillewan	03:45 –04:00 PM
2	Geometrical Method For Shadow Detection Of Static Images	Dr Kavita, Mr Manoj K Sabnis, Dr. Manoj Kumar Shukla	04:30 –04:45 PM
3	Adaptive Weighted Median Filter for Motion Estimation	Prashant A.Bhalge , Dr.Salim Y.Amdani	04:45 –05:00 PM
4	Analysis Of Dimensionality Reduction Techniques With ABC-PSO Classifier For Classification Of Epilepsy From EEG Signals	Harikumar Rajaguru, Sunil Kumar Prabhakar	05:00 –05:15 PM
5	An Optimized Adaptive Random Partition Software Testing By Using Bacterial Foraging Algorithm	Ms. K. Devika Rani Dhivya, Dr. V.S. Meenakshi	05:15 –05:30 PM
6	Detection Of Menisci Tears In Sports Injured And Pathological Knee Joint Using Image Processing Techniques	Mallikarjunaswamy M.S. ,Rajesh Raman, Mallikarjun S. Holi And Sujana Theja J. S.	05:30 –05:45 PM
7	Analysis Of Trabecular Structure In Radiographic Bone Images Using Empirical Mode Decomposition And Extreme Learning Machine	G. Udhayakumar,	05:45 –06:00 PM
8	A Hybrid Classification Model Using Artificial Bee Colony with Particle Swarm Optimization and Minimum Relative Entropy as Post Classifier for Epilepsy Classification	Harikumar Rajaguru, Sunil Kumar Prabhakar	06:00 –06:15 PM



SESSION 3, PARALLEL SESSION 2

Sl.No	Topic	Author	Time
1	Design of an Optimization Routing Model for Real time Emergency Medical Service System in Chennai Using Fuzzy Techniques	C.Vijayalakshmi, Anitha.N	03:45 –04:00 PM
2	A Novel Algorithm For Triangulating 2d Point Clouds Using Multi Dimensional Data Structures And Nearest Neighbour Approach	Sundeep Joshi, Shriram K. Vasudevan	04:00 –04:15 PM
3	Preprocessing of LungImages with a novel Image Denoising Technique for enhancing the Quality and Performance	C. Rangaswamy, G T Raju, G Seshikala	04:15 –04:30 PM
4	Noninvasive assistive method to Diagnose Arterial Disease- Takayasu's arteritis	SuganthiLakshmanan, Dipanjan Chatterjee, ManivannanMuniyandi	04:30 –04:45 PM
5	A Study On Various Quantification Algorithms For Diabetic Retinopathy And Diabetic Maculopathy Grading	Parvathy Ram, Swapna T R	04:45 –05:00 PM
6	Global Skew Detection and Correction using Morphological and Statistical Methods.	Md Sharfuddin Waseem, Narasimha Reddy Soora	05:00 –05:15 PM
7	Image Pyramid for Automatic Segmentation of Fabric Defects	Ankita Sarkar, S.Padmavathi	05:15 –05:30 PM
8	Multi Focus Region-based Image Fusion using Dif-ferential Evolution Algorithm Variants	Haritha K C, S Thangavelu	05:30 –05:45 PM



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SESSION 3, PARALLEL SESSION 3

Sl.No	Topic	Author	Time
1	Use of predictive analytics towards better management of parking lot using Image Processing	Maheshwari K.A, Bagavathi Sivakumar P	03:45 –04:00 PM
2	Enforcement of Automatic Penalty (e-Penalty) to govern the Traffic Rule Violator in Digitized INDIA using I.C.T.	Shiv Kumar Goel, Dr. Kavita, Dr. Manoj Shukla	04:00 –04:15 PM
3	Optimization of Rules in Neuro-Fuzzy Inference Systems	Amudha J, D. Radha	04:15 –04:30 PM
4	DNA Based Image Steganography	Vinodhini R E, Malathi P	04:30 –04:45 PM
5	Performance evaluation of combined k-mean and fuzzy-c-mean segmentation on MR brain images	Ahammed Muneer K.V, Paul Joseph K	04:45 –05:00 PM
6	Generation Of Author Topic Models Using Lda	G.S. Mahalakshmi, G. Muthu Selvi, S. Sendhilkumar	05:00 –05:15 PM
7	Comparative Analysis of Bio watermarking using DWT, DCT and LSB algorithms	N.V.Brindha, Dr.V.S. Meenakshi	05:15 –05:30 PM
8	Comparative analysis of biomedical image compression using oscillation concept & Existing methods	Mrs. Satyawati S. Magar1 , Dr.Bhavani Sridharan	05:30 –05:45 PM