2016 Second International Conference on Cognitive Computing and Information Processing (CCIP 2016)

Mysuru, India
12-13 August 2016
Table of Contents

1. Message from General Chair
2. Acknowledgement
3. Contact information
4. Organizing Committee
5. Keynote Talks
6. Special Session Abstracts
   a) Visual Computing & Machine Learning for Digital Forensics
   b) Speech Signal Processing & its Applications
   c) Cognitive Computing in Medical Information Processing
   d) Cognitive Intelligence in Smart-X Technologies & Industrial Automation
   e) Complex Valued & High Dimensional Neural Networks
7. Original Research Articles

<table>
<thead>
<tr>
<th>Original Research Articles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Computing &amp; Machine Learning for Digital Forensics</td>
</tr>
</tbody>
</table>

Performance Evaluation of Image Retrieval Systems using Shape Feature Based on Wavelet Transform  
*Padmashree Desai, Jagadeesh Pujari, Anita Kinnikar*

Local Binary Patterns: An Improved LBP to Extract Non-Uniform LBP Patterns with Gabor Filter to Increase the Rate of Face Similarity  
*Ravi Kumar Y B, C N Ravi Kumar*

Video frame segmentation by using Newton's law of gravity  
*Abouzar Ghasemi, C N Ravi Kumar*

Person Re-identification Using Part Based Hybrid Descriptor  
*P.K. Sathish, S. Balaji*

Determination of coordinate transformations in UAVs  
*Chapala Sandhya Rani, Pirat Gangadhara Sai, Usha Rani Nelakuditi*
Speech Therapy System to Kannada Language
V Udayashankara, Swapna Havalgi

Hilbert Huang Transform based Speech Recognition
Vani H Y, M A Anusuya

Active Listening and Interaction Using Index of Co-Incidence and Birthday Problem with Hidden Markov Models
Mohanes B M, Nandini B M, M A Anusuya

Disordered Voice Classification using SVM and Feature Selection using GA
Seema Firdos, K Umarani

Cognitive Computing in Medical Information Processing

Association Rule Analysis in Cardiovascular Disease
Sangita Khare, Deepa Gupta

MR Image Reconstruction Based On Compressed Sensing Using Poisson Sampling Pattern
Amruta Kaldate, B. M. Patre, Rajesh Harsh, Dharmesh Verma

Undecimated Complex Wavelet Transform based Bleeding Detection for Endoscopic Images
Reeha K. R, Shailaja K, Varun P. Gopi

Recognizing Cardiovascular Risk from Photoplethysmogram Signals Using ELM

B.S. Mahanand, S.Vigneshwaran, S.Suresh, N.Sundararajan

An Ensemble Approach to Detect Exudates in Digital Fundus Images
B V Shilpa, T N Nagabhushan

Real Time Access to Online Immunization Records and its Impact on Tetanus Immunization Coverage in the ED
Prabhu RV Shankar, Michael Scott Kelleman, Courtney E McCracken, Claudia R Morris, Harold K Simon

A Picture Fuzzy Clustering Approach for Brain Tumor Segmentation
S V Aruna Kumar, B S Harish, V N Manjunath Aradhya

An Integrated curvature and Convex Hull based concave point detection in Histopathological images
Anandraj Ulle, T N Nagabhushan, Nandini Manoli, Vijaya Basavaraj

A Foreground Marker based Centroid initialized Geodesic Active Contours for Histopathological Image Segmentation
P M Shivamurthy, T N Nagabhushan, Vijaya Basavaraj
Meta-cognitive Neural Network Method for Classification of Diabetic Retinal Images
Rubena Banu, Vanishri Arun, N Shankaraiah, Shyam V

A Novel GA-ELM approach for Parkinson’s disease detection using Brain Structural T1-weighted MRI Data
Gunjan Pahuja, T N Nagabhushan

Cognitive Intelligence in Smart-X Technologies & Industrial Automation

Precise current matching charge pump for digital phase locked loop
Rajeshwari D S, P V Rao

Automation of Device Validation using Digital Power Technology and PMBus Communication
Shivakumar M, Premananda B.S

Remote control of appliances based on raspberry pi
Dr.M.S.S.Rukmini, D. Bala Gayathri Devi

Photovoltaic Based PMDC Motor Drive System using MPPT
Chetanakumar Hadimani S, R Radha, A B Raju, Rohini Jyoti

Complex Valued & High Dimensional Neural Networks

Fully complex-valued radial basis function networks for prediction of wind force and moment co-efficients on marine structures
Krishna Kumar N, R. Savitha, Abdullah Al Mamun

Meta-Cognitive Extreme Learning Machine for Regression Problems
Krishna Kumar N, R. Savitha, Abdullah Al Mamun

Study of complex-valued learning algorithms for post-surgery survival prediction
M. Sivachitra, R. Savitha
General Session on Cognitive Computing & its Applications

Frame Clustering Technique towards Single Video Summarization
Priyamvada R Sachan, Keshaveni

Sequential ELM for Financial Markets
Ashwin S. Ravi, Akshay Sarvesh, Koshy George

Interaction Of Auditory Perceptual Dimensions: A Review
Arthi S, T V Sreenivas

Feature Extraction and Classification of Retinal Images for Automated Detection of Diabetic Retinopathy
Harini R, Sheela N

Segmentation of coconut crop bunch from tree images
Siddesh S, S K Niranjan, V N Manjunath Aradhya

A Placement Prediction System Using K-Nearest Neighbors Classifier
Animesh Giri, M Vignesh V Bhagavath, Bysani Pruthvi, Naini Dubey

Early Detection of Grapes Diseases Using Machine Learning and IoT
Suyash S. Patil, Sandeep A. Thorat

Predicting Popularity of Online Articles using Random Forest Regression
R. Shreyas, D.M Akshata, B.S Mahanand, B. Shagun, C.M Abhishek

Optimized Radial Basis Function Neural Network model for wind power prediction
Rashmi. P. Shetty, A. Sathyabhama, Srinivasa Pai P, A. Adarsh Rai

Automatic Defect Identification and Grading System for ‘Jonagold’ Apples
Shyla Raj, D.S.Vinod

Comparative Performance of Different Wavelets in Power Quality Disturbance Detection and Quantification
Divya. S, K. Uma Rao

Facial Emotion Recognition for Human-Machine Interaction using Hybrid DWT-SFET Feature Extraction Technique
Shoaib Kamal, Farrukh Sayeed, Mohammed Zakir, Mohammed Rafeeq

On improving energy saving in IEEE 802.11s wireless mesh networks under mobility conditions
S P Shiva Prakash, T N Nagabhushan, Kirill Krinkin

Recognition and Classification of Animals based on Texture Features through Parallel Computing
Manohar N, Subrahmanyas S, Bharathi R K, Sharath Kumar Y H

Analysis of Associativity Among Mirror Neurons for Financial Profiling
Tarun Dash, Vinayak Jaiswal, Anoosha Sagar, Gaurav Vazirani, Nupur Giri

A Comparative Study of Feature Extraction Methods in Defect Classification of Mangoes using Neural Network
VaniAshok, D S Vinod

Human Activity Recognition in Cognitive Environments Using Sequential ELM
R Chandan Kumar, Skanda S. Bharadwaj, B. N. Sumukha, Koshy George