

Technical Programme - ICIP 2011

“ICIP 2011 received 624 paper submissions, out of which 148 full papers were accepted and they will be presented in 12 oral sessions and 5 poster sessions.”

Technical Programme

Session: Oral Session 1

Date: Thursday, 3 November 2011

Time: 12:15 – 13:30

Venue: CR7

IMAGE PROCESSING

Session Chair: **Prof. Ioannis Pitas, University of Thessaloniki, GREECE**

Paper ID 1569409253 12:15-12:30
Characterization of Motion Cardiac Patterns in Magnetic Resonance Cine
*Fabio Martínez ,*Antoine Manzanera , **Cristina Santa Marta,Eduardo Romero*
Universidad Nacional de Colombia, Colombia
*ENSTA, France
**UNED, Spain

Paper ID 1569455241 12:30-12:45
Classification of Bamboo Plant Based on Digital Image Processing By Central Moment
*Krishna Singh , Indra Gupta , *Sangeeta Gupta*
I I T Roorkee, India
*Forest Research Institute Dehradun, India

Paper ID 1569462287 12:45-13:00
Modified PPPE Architecture for Two-Dimensional Radon Transform Computation
Baljit Kaur ,Manoj Kumar Majumder
Indian Institute of Technology, Roorkee, India

Paper ID 1569480643 13:00-13:15
PROSOPON: a virtual anatomical 3D head model
*Christos Sagonas ,** Ioannis Pitas, *Athanasios Kyrgidis ,* Kleoniki Lyroutdia*
Department of Informatics, Aristotle University of Thessaloniki, Greece
*Aristotle University of Thessaloniki, Dental School, Greece
**Aristotle University of Thessaloniki, Greece

Paper ID 1569488775 13:15-13:30
Towards Automated Post-Production and Semantic Annotation of Films
Nikolaos Tsapanos,Nikos Nikolaidis,Ioannis Pitas
Aristotle University of Thessaloniki, Greece

Session: Oral Session 2

Date: Thursday, 3 November 2011

Time: 12:15 – 13:30

Venue: CR8

COMPUTER VISION

Session Chair: **Prof. Amitabh Varshney, University of Maryland, USA**

Paper ID 1569462591 12:15-12:30
A Novel Algorithm For Real Time Moving Object Tracking
*Sheikh Nasrullah , *Dawood Khan*
Indian Institute of Information Technology,
Allahabad, India
*INRIA, France

Paper ID 1569472141 13:15-13:30
Data Mining By Density Estimation Using Wavelet
Debabrata Datta
Bhabha Atomic Research Centre, India

Paper ID 1569467895 12:30-12:45
Automated Test Data Generation for Mutation Testing Using AspectJ Programs
*Mayank Singh, *Mohit Jain, **P. K. Gupta³, ***Shailendra Mishra⁴*
Research Scholar, Uttarakhand Technical University
* K.N. Modi Institute of Engineering & Technology,
**Jaypee University of Information Technology,
Solani ***Department of Computer Science,
KEC Dwarahat,
Uttarakhand

Paper ID 1569469859 12:45-13:00
Augmenting Graph Cut with TV-L1 Approach for Robust Stereo Matching
Arshad Jamal, S Rakshit Rakshit
DRDO, India

Technical Programme

Session: Poster Session 1

Date: Thursday, 3 November 2011

Time: 12:15 – 13:30

Venue: Auditorium

COMPUTER VISION

Session Chair: **Prof. Deepak Dahiya, Jaypee Univ of IT, INDIA**

Paper ID 1569449437

Road Extraction Using K-Means Clustering and Morphological Operations

Rohit Maurya

CDAC Noida, India

Paper ID 1569459651

A Better Approach for Object Tracking Using Dual-Tree Complex Wavelet Transform

**Roshan Singh , **Ravindra Kumar Purwar ,*

***Navin Rajpal*

**GLA University, India*

***GGS Indraprastha University, India*

Paper ID 1569470707

Design of a Simulink Model for Uncertainty Quantification of Concentration of Contaminant Transport through Ground Water

**Debanshee Datta, ** Debabrata Datta*

** A C Patil College of Engineering, India*

***Bhabha Atomic Research Centre, India*

Paper ID 1569471037

Generating Realtime Panorama using a Generalized Feature Vector Approach

*Jhilik Bhattacharya, Somajyoti Majumder , *Goutam Sanyal*

Central Mechanical Engineering Research Institute, India

**National Institute of Technology, Durgapur, India*

Paper ID 1569474057

Comparative Study of Directional Antenna Gain for MANET Nodes and Cluster Head Gateway in Integrated Mobile Adhoc Network

Ashish Bagwari

IEEE Member, GEU, India

Paper ID 1569476633

An efficient algorithm for 3-D object reconstruction from 2-D images

Ravindra Modi

SVNIT, India

Paper ID 1569479165

Volume Estimation of Apple Fruits Using Image Processing

Mohammed Iqbal , Aravamudan Gopal ,Atmakuru Sarma

Central Electronics Engineering Research Institute, India

Paper ID 1569480115

Distributed Differential Evolution Algorithm for

MAP Estimation of MRF model for Detecting Moving Objects

*Ajoy Mondal, *Susmita Ghosh, Ashish Ghosh*

Indian Statistical Institute, India

**Jadavpur University, India*

Session: Oral Session 3

Date: Thursday, 3 November 2011

Time: 15:30 – 17:30

Venue: CR7

IMAGE PROCESSING

Session Chair: **Prof. Sandeep Kumar, IT- Banaras Hindu University, Varanasi, INDIA**

Paper ID 1569467403 15:30-15:45
Robust Long Range Target Detection Algorithm Using Adaptive Selective Top-Hat Transform
Ram Saran , Anil Sarje
Indian Institute of Technology Roorkee,
India

Paper ID 1569468059 15:45-16:00
A Hybrid Demosaicking Algorithm Using Frequency Domain and Wavelet Methods
*Rana Kolta ,*Hussein Aly, Mohamed Waleed Fakhr*
Arab Academy for Science and Technology, Egypt
*MTC, Egypt

Paper ID 1569468349 16:00-16:15
A Code and Domain independent Traitor Tracing System based on the Eigen-decomposition of Fingerprinted Images
A Madhavaraj ,Gnana Praveen , Kannan Karthik
IIT Guwahati,
India

Paper ID 1569469139 16:15-16:30
Multi-Resolution Image Fusion by FFT
Vps Naidu
National Aerospace Laboratories,
India

Paper ID 1569469273 16:30-16:45
A N8(P) Detail Preserving Adaptive Filter For Impulse Noise Removal
Akansha Mehrotra
IIT Roorkee,
India

Paper ID 1569469337 16:45-17:00
New Accordion based video compression approach
Tarek Ouni
National Ingeneering School of Sfax ,
Tunisia

Paper ID 1569442583 17:00-17:15
Post Classification Using Cellular Automata For Landsat Images In Developing Countries
Ayman Nabil
Misr International University,
Egypt

Paper ID 1569470665 17:15-17:30
Plasmodium vivax segmentation using modified fuzzy divergence
Madhumala Ghosh , Devkumar Das, Chandan Chakraborty
Indian Institute of Technology, Kharagpur,
India

Session: Oral Session 4

Date: Thursday, 3 November 2011

Time: 15:30 – 17:30

Venue: CR8

COMPUTER VISION

Session Chair: **Dr. Vipin Tyagi, Jaypee University of Engineering & Technology, Guna, INDIA**

Paper ID 1569474877 15:30-15:45
An Approach for Fully Automating Perspective Images Based On Symmetry and Line Intersection
Robin Tommy
 Tata Consultancy Services, India

Paper ID 1569481533 15:45-16:00
Blood Microscopic Image Segmentation using Rough Sets
Subrajeet Mohapatra
 National Institute of Technology Rourkela, Orissa

Paper ID 1569479647 16:15-16:30
Human Pose Estimation in Surveillance Videos using Temporal Continuity on Static Pose
*Anima Mishra Sharma , *Amitabha Mukerjee , *Venkatesh K Subramanian*
 Center for Artificial Intelligence and Robotics ,DRDO, India
 * Indian Institute of Technology Kanpur, India

Paper ID 1569480653 16:30-16:45
Neuro-visually inspired figure-ground segregation
Kuntal Ghosh
 Indian Statistical Institute, India

Paper ID 1569480667 16:45-17:00
Enhancing Face Matching in a Suitable Binary Environment
*Kuntal Ghosh , *Apurba Das*
 Indian Statistical Institute, India
 *CDAC, India

Paper ID 1569480671 17:00-17:15
Estimation of Facial Expression Intensity from a Sequence of Binary Face Images
Kuntal Ghosh
 Indian Statistical Institute, India

Paper ID 1569480887 17:15-17:30
Disparity Estimation using Fractional Dual Tree Complex Wavelet Transform
**Sanoj Kumar, Sanjeev Kumar, Balasubramanian Raman, Nagarajan Sukavanam*
 Indian Institute of Technology Roorkee, India
 *Indian Institute of Technology, India

Session: Poster Session 2

Date: Thursday, 3 November 2011

Time: 15:30 – 17:30

Venue: Auditorium

IMAGE PROCESSING

Session Chair: **Prof. Deepak Dahiya, Jaypee Univ of IT, INDIA**

Paper ID 1569463917

Dual watermarking based on Multiple parameter fractional Fourier transform and LSB technique

Sudhir Keshari

Malaviya National Institute of Technology, India

Paper ID 1569465307

An OCR-Character Segmentation Using Routing based fast Replacement paths in Reach Algorithm

Muralikrishna Mummadisetty

Andhra University, India

Paper ID 1569465813

A Wireless Video Streaming System Based on OFDMA with Multi-Layer H.264 Coding and Adaptive Radio Resource Allocation

Sheikh Md. Rabiul Islam, Moinul Hossain Shohan

Khulna University of Engineering & Technology, Bangladesh

Paper ID 1569466425

Image Hiding Using Unitary Similarity Transformation

Manoj Sharma, Manoj Kumar Shukla, Amit Kaul

NIT Hamirpur, India

Paper ID 1569467413

Plant leaf imaging technique for agronomy

Vhatkar Shivling

CSIO, AGRIONICS GROUP, India

Paper ID 1569468955

Experimental Study with Enhanced Vision System Prototype Unit

Vps Naidu

National Aerospace Laboratories, India

Paper ID 1569468975

Object-based Image Fusion for Minimization of Color Distortion in High-Resolution Satellite Imagery

Munmun Baisantry

Defense Electronics Applications Laboratory, India

Paper ID 1569469883

SVM Classifier for Recognition of Handwritten Devanagari Numeral

Mahesh Jangid

B R Ambedkar National Institute of Technology, India

Paper ID 1569469965

Analytical Study of Parallel and Distributed Image Processing

**Harshad Prajapati, **Sanjay K. Vij*

**Dharmsinh Desai University, India*

***SVIT, India*

Paper ID 1569470045

Impact of Bit Error on Video Transmission over Wireless Networks and Error Resiliency: A Survey

Sanjay Koli

University of Pune, India

Technical Programme

Session: Poster Session 2

Date: Thursday, 3 November 2011

Time: 15:30 – 17:30

Venue: Auditorium

IMAGE PROCESSING

Session Chair: **Prof. Deepak Dahiya, Jaypee Univ of IT, INDIA**

Paper ID 1569470625

A Seeded Region Growing Algorithm for Spot Detection in Medical Image Segmentation

Brijesh Shah

Charotar University of Science and Technology,
India

Paper ID 1569470701

ECG based Biometric Authentication-a Novel Data Modelling Approach

Saurabh Pal

M Mitra

*Haldia Institute of Technology, India

** University of Calcutta, India

Paper ID 1569470889

Diagnosis of Invasive Ductal Carcinoma using Image Processing Techniques

Amrita Ray Chaudhury, Kaveri K Iychettira, Ranjani Iyer, Sreedevi Asundi

RV College of Engineering, India

Paper ID 1569477911

Palmprint Identification based on Fusion of PCA and DT-CWT Features

Kazhur Shashikala

Dayananda Sagar College of Engineering,
Visvesvaraya Technical University, India

Paper ID 1569472041

Analysis of Brain MRI Images of Intracerebral Haemorrhage Using Frequency Domain Technique

Supriya Shanbhag

Gogte Institute of Technology, India

Paper ID 1569473047

A Non-Linear Image Denoising Method for Salt-&-Pepper Noise Removal

*Raju Kurup, *S Muthukumar*

Kannur University, Kerala, India

* Manonmaniam Sundaranar University, Tirunelveli,
Tamilnadu, India

Paper ID 1569473607

Multichannel Digital Watermarking of Color Images using SVD

Rashmi Agarwal

Mohanlal Sukhadia University, India

Paper ID 1569479703

Robust Watermarking Using Extended Anti-collusion Codes

Monjul Saikia, Anwar Hussain

NERIST, India (North Eastern Regional Institute of
Science and Technology, India)

Session: Oral Session 5

Date: Friday, 4 November 2011

Time: 12:15 – 13:30

Venue: CR7

IMAGE PROCESSING

Session Chair: Prof. Gaurav Sharma, University of Rochester, USA

Paper ID 1569481171 12:15-12:30
A Robust Area Based Disparity Estimation Technique for Stereo Vision Applications
**Harkanwal Sidhu, Satish Kumar, Amitava Das, Harish Kumar Sardana*
**Thapar University, India*
Central Scientific Instruments Organisation, India

Paper ID 1569463959 13:00-13:15
Grayscale Digital Halftoning using BPSO-GA Combined Optimization Technique
Arpitam Chatterjee
Jadavpur University, India

Paper ID 1569471043 12:30-12:45
Probabilistic Prediction of Malaria using Morphological and Textural Information
*Devkumar Das, Madhumala Ghosh, Chandan Chakraborty, *Asok Kumar Maiti, *Mallika Pal*
Indian Institute of Technology, Kharagpur, India
**Midnapur Medical College and Hospital, India*

Paper ID 1569471513 13:15-13:30
Secure Fingerprint Embedding based on Modified GDFT based Parametric Transform
Nakum Nathabhai, Kannan Karthik
Indian Institute of Technology Guwahati, India

Paper ID 1569471077 12:45-13:00
A Neutrosophic Approach of MRI Denoising
*Mohan Jayaraman, *Krishna Veni, **Yanhui Guo*
P A College of Engineering, India
**PSG College of Technology, India*
***University of Michigan, USA*

ICIIP 2011

Technical Programme

Session: Oral Session 6

Date: Friday, 4 November 2011

Time: 12:15 – 13:30

Venue: CR8

PATTERN RECOGNITION

Session Chair: **Prof. Andres Bruhn, Saarland University, Saarbruecken, GERMANY**

Paper ID 1569480161 12:15-12:30
Suppression of non-text components in handwritten document images
Ram Sarkar ,Sanjay Moulik, Nibaran Das,Subhadip Basu ,Mita Nasipuri Mahantapas Kundu
 Jadavpur University,
 India

Paper ID 1569480387 12:30-12:45
Vision based Preceding Vehicle Detection Using Self Shadows and Structural Edge Features
Aditya Kanitkar ,Brijendra Bharti,Umesh Hivarkar
 KPIT CUMMINS Infosystems Limited,
 India

Paper ID 1569480401 12:45-13:00
Online Signature Verification using GA-SVM
*Madasu Hanmandlu , *Abdul Quaiyum Ansari , **Jaspreet Kour*
 I.I.T. Delhi, India
 *Jamia Millia Islamia, New Delhi, India
 **GCET Greater Noida, India

Paper ID 1569480439 13:00-13:15
Hierarchical Clustering on Texture Statistics for Search Space Reduction of Large Scale Face Recognition
Apurba Das, Suparna Parua Biswas
 CDAC, Kolkata, India)

Paper ID 1569480459 13:15-13:30
Optimum Band Selection in Hyperspectral Imagery Using Swarm Intelligence Optimization Algorithms
Farhad Samadzadegan , Fatemeh TabibMahmoudi
 University of Tehran, Iran

Session: Poster Session 3

Date: Friday, 4 November 2011

Time: 12:15 – 13:30

Venue: Auditorium

ELECTRICAL AND COMPUTER ENGG ,COMPUTER VISION,PATTERN RECOGNITION

Session Chair: **Prof. S.P. Ghrera, Jaypee Univ of IT, INDIA**

Paper ID 1569479815

Gain-Phase Mismatch Correction Technique in I/Q Channel Receiver

*Amritakar Mandal, *Rajesh Mishra*

Shobhit University, India

*Gautam Buddha University, India

Paper ID 1569480083

Some New Product Cordial Graphs

Kailas Kanani , Gaurang Ghodhasara

GTU, India

Paper ID 1569480765

Performance Analysis of Spectrum Efficiency of Cognitive Radio

K. R. Kashwan , Anuraj Rajagopal

Sona College of Technology - An Autonomous Institution, India

Paper ID 1569495405

Enhancing Information Retrieval Efficiency Using Semantic-based-Combined-Similarity-Measure

*Dharmendar Sharma, *Mayank Saini, P.K.Gupta*

Jaypee Univ of IT, India

*JNU, Delhi, India

Paper ID 1569468513

Classification of Characters and Grading Writers in Offline Handwritten Gurmukhi Script

Munish Jindal

Panjab University Constituent College, Muktsar, India

Paper ID 1569469183

k-Nearest Neighbor Based Offline Handwritten Gurmukhi Character Recognition

Munish Jindal

Panjab University Constituent College, Muktsar, India

Paper ID 1569480523

Spatial-Spectral Endmember Extraction for Spaceborne Hyperspectral data

**Sourabh Pargal, Prasun Gupta, Shefali Agarwal*

*Indian Agricultural Research Institute, India

Indian Institute of Remote Sensing, India

Paper ID 1569480629

Non-Metrical Scene Reconstruction Using a Quasi-Calibrated Prime Lens Based Camera

Senthil Nathan

Anna University, India

Paper ID 1569480927

A Fast 3D Reconstruction of Inextensible Surfaces using Adaptive Weights

Arsalan Dezhkam

Sharif University of Technology, Iran

Paper ID 1569495415

Tuning Topical Queries for Effective Information Retrieval

*Dharmendar Sharma, *Mayank Saini*

Jaypee Univ of IT, India

*JNU, Delhi, India

Session: Oral Session 7

Date: Friday, 4 November 2011

Time: 15:30 – 17:30

Venue: CR7

IMAGE PROCESSING

Session Chair: **Prof. B.B. Chaudhuri, Indian Statistical Institute, Kolkata, INDIA**

Paper ID 1569471569 15:30-15:45
Retinal Nerve Fibre Layer Detection in Fundus Camera Images Compared to Results from Optical Coherence Tomography
Jiri Gazarek , Jiri Jan , Radim Kolar, Jan Odstrcilik
 Brno University of Technology, Czech Republic

Paper ID 1569471641 15:45-16:00
Quality Evaluation of Foeniculum vulgare (Fennel) Seeds Using Colorization
*Jalpa Patel , *Chintan Modi , Kavindra Jain*
 Gujrat Technological University, Gujrat, India
 *Indian Institute of Technology Bombay, Canada

Paper ID 1569471795 16:00-16:15
Recognition of Bangla text from Scene Images through Perspective Correction
*Ranjit Ghoshal , *Anandarup Roy, *Swapan Parui*
 St. Thomas' Collage of Engineering and Technology, India
 *Indian Statistical Institute, Kolkata, India

Paper ID 1569473627 16:15-16:30
Comparison of SVM and Neural Network Classifier for Prediction of Cirrhosis based on Laws' Masks Analysis
*Jitendra Virmani , Vinod Kumar , *Naveen Kalra, *Niranjana Khandelwal*
 Indian Institute of Technology Roorkee, India
 *Post Graduate Institute of Medical Education and Research-Chandigarh, India

Paper ID 1569474099 16:30-16:45
Fusion of Multimodality Medical Images Using Combined Activity Level Measurement and Contourlet Transform
Sudeb Das, Malay Kumar Kundu
 Indian Statistical Institute, Kolkata, India

Paper ID 1569475015 16:45-17:00
Performance Metrics for Image Contrast
Abhishek Tripathi
 Indian Institute of Technology, Kharagpur, India

Paper ID 1569474953 17:00-17:15
A Novel Approach for Delineation and Feature Extraction in QRS Complex of ECG Signal
*Sucharita Mitra , *B B Chaudhuri , **Sayak Pramanik , ***Rupendra Nath Mitra*
 University of Calcutta, India
 *Indian Statistical Institute, India
 **Calcutta Institute of Engineering and Management, India
 ***Nokia Siemens Networks Pvt. Ltd., India

Paper ID 1569477745 17:15-17:30
Lossless Data Hiding for Halftone Color Images
Ruchira Naskar , Rajat S Chakraborty
 Indian Institute of Technology Kharagpur, India

Session: Oral Session 8

Date: Friday, 4 November 2011

Time: 15:30 – 17:30

Venue: CR8

IMAGE PROCESSING, COMPUTER VISION

Session Chair: **Dr. Tinku Acharya, Videonetics Technology, INDIA**

Paper ID 1569489313 15:30-15:45

Information Fusion For 3D Face Recognition

Mohamed Anouar Borgi

REGIM Laboratory - ENIS - Tunisia

Paper ID 1569479777

16:30-16:45

An elegant approach for automatic license plate recognition

*Jamini Sampathkumar , *Kumar Rajamani*

SAP Labs, India

*GE Global Research, India

Paper ID 1569479583 15:45-16:00

Recognition of Electrical Symbols in Document Images Using Morphology and Geometric Analysis

*Paramita De, *Sekhar Mandal, **Partha Bhowmick*

Haldia Institute of Technology, India

*Bengal Engineering and Science University, India

**IIT Kharagpur, India

Paper ID 1569480595

16:45-17:00

Minutiae Based Thermal Face Recognition using Blood Perfusion Data

Ayan Seal

Jadavpur University, India

Paper ID 1569479587 16:00-16:15

Handwritten Bangla character recognition in machine-printed forms using gradient information and Haar wavelet

*Sekhar Mandal , Sanjib Sur , Avishek Dan, *Partha Bhowmick*

Bengal Engineering and Science University, Shibpur, India

*IIT Kharagpur, India

Paper ID 1569481465

17:00-17:15

Classification of Conjunctival Vasculature using GLCM Features

*Sriram Pavan Tankasala , **Arun Ross , **Simona Crihalmeanu , Reza Derakhshani*

University of Missouri-Kansas City, USA)

*Midwest Research Institute, USA

**West Virginia University, USA

Paper ID 1569479589 16:15-16:30

Robust Binarization of Degraded Documents using Adaptive-cum-Interpolative Thresholding in a Multi-scale Framework

*Soumen Bag , Partha Bhowmick , *Priyaranjan Behera, **Gaurav Harit*

Indian Institute of Technology Kharagpur, India

*NIT Rourkela, India

**IIT Rajasthan, India

Paper ID 1569481521

17:15-17:30

Detection of Doctored Images Using Bispectral Analysis

Ananya Upendra , Uma Mudenagudi

B. V Bhoomaraddi College of Engineering and Technology, Hubli, India)

Session: Poster Session 4

Date: Friday, 4 November 2011

Time: 15:30 – 17:30

Venue: Auditorium

PATTERN RECOGNITION , IMAGE PROCESSING & COMPUTER VISION

Session Chair: **Prof. Sandeep Kumar, IT- Banaras Hindu University, Varanasi, INDIA**

Paper ID 1569461009

Face Recognition Using Dual Tree Complex Wavelets and PCA

*Punnam chandar Kothapelli, *Raman Kumar;
**Mahesh Chandra, **Swarana Latha*
University college of Engineering, KU, India
*Kakatiya University, India
**KITS, India

Paper ID 1569467037

Efficient MEG Signal Decoding of Direction in Wrist Movement using Curve Fitting (EMDC)

College of Engineering, India); Vinay K C (University Visvesvaraya College of Engineering, India); Raja K b (Bangalore, India)

Paper ID 1569468269

Random Automatic Detection of Clusters

Mamta Mittal
Thapar University Patiala, India

Paper ID 1569468303

Empirical Modeling using Symbolic Regression via Postfix Genetic Programming

*Vipul K Dabhi , *Sanjay K. Vij*
*SVIT, India
Dharmsinh Desai University, India

Paper ID 1569469233

An Effective Content Based Video Retrieval Utilizing Texture, Color and Optimal Key Frame Features

**S. Padmakala, G. S. AnandhaMala*
St. Joseph's College of Engineering, India
*Anna University, India

Paper ID 1569471117

Framework for Human Action Recognition using Spatial Temporal based Cuboids

Sarvesh Vishwakarma
Indian Institute of Information Technoogy, Allahabad, India

Paper ID 1569471141

Classification of Printed Gujarati Characters using SOM based K-Nearest Neighbor Classifier

Mukesh Goswami, Harshad Prajapati, Vipul K Dabhi
Dharmsinh Desai University, India

Paper ID 1569472747

Evaluation and Analysis of Illumination Normalization Methods for Face Recognition

Ramji Makwana
A. D. Patel Institute of Technology, India

Paper ID 1569474969

Statistical Estimation of Emotions in Speech Notes by Featured Term Analogy

**Zaheer Parvez Shaik Mohd, Sita Kumari Kotha, Suhasini Sodagudi*
Jawaharlal Nehru Technological University, Kakinada, India
*Acharya Nagarajuna University, India

Paper ID 1569475829

Emotion Recognition based on Texture Analysis of Facial Expression

Gyanendra Verma, Bhupesh Singh
Indian Institute of Information Technology Allahabad, India

Session: Poster Session 4

Date: Friday, 4 November 2011

Time: 13:30 – 17:30

Venue: Auditorium

PATTERN RECOGNITION , IMAGE PROCESSING & COMPUTER VISION

Session Chair: **Prof. Sandeep Kumar, IT- Banaras Hindu University, Varanasi, INDIA**

Paper ID 1569479047

Robust Intuitionistic Fuzzy C-Means Clustering for linearly and nonlinearly Separable Data

**Prabhjot Kaur , Ims Lamba*

Sharda University, India

**GGSIP University, New Delhi, India*

Paper ID 1569480987

Skew Correction of Engineering Drawings by Digital-geometric Analysis of Farey Ranks

Sanjoy Pratihar (Indian Institute of Technology, Kharagpur, India);

Paper ID 1569480871

Hand Gesture Recognition for Human Computer Interaction

Meenakshi Panwar

Centre for Development of Advanced Computing, India

Paper ID 1569481037

Recommendation System based on Prominent Items

*Raminder Jeet Sodhi; *Vaibhav Gaur; **Vinod Panchal*

National Institute of Technology Karnataka Surathkal, India

**Delhi Technological University, India*

***Defence Research and Development Organization, India*

Paper ID 1569480897

Evaluation of Features for Automated Transcription of Dual-Handed Sign Language Alphabets

Himanshu Lilha, Devashish Shivmurthy

PES School of Engineering, India

Paper ID 1569481347

Robust Real-Time Object Tracking under Background Clutter

Deepak Panda, Sukadev Meher

National Institute of Technology, Rourkela, India

ICIIP 2011

Technical Programme

Session: Oral Session 9

Date: Saturday, 5 November 2011

Time: 11:15 – 13:30

Venue: CR 7

PATTERN RECOGNITION

Session Chair: **Prof. Sumeet Dua, Louisiana Tech University, USA**

Paper ID 1569458381 11:15-11:30
A Fast Template Matching Algorithm for Aerial Object Tracking
Sanjay Sahani
 Integrated Test Range, DRDO, India

Paper ID 1569469283 11:30-11:45
A Hardware/ Software Co-design model for Face Recognition using Cognimem Neural Network chip
*Santu Sardar , *Gaurav Tewari*
 ANURAG, DRDO, India
 *DRDO, India

Paper ID 1569470829 11:45-12:00
Quality Based Illumination Compensation for Face Recognition
Swarup Dandpat
 NIT Rourkela, India

Paper ID 1569471775 12:00-12:15
Determination of Amylose Content in Rice using Electronic Tongue
Subrata Sarkar , Subhankar Mukherjee , Nabarun Bhattacharyya
 Centre for Development of Advanced Computing, India

Paper ID 1569480829 12:15-12:30
Fourier shape-frequency words for actions
**Bishwajit Sharma) Venkatesh K Subramanian , Amitabha Mukerjee*
 Indian Institute of Technology Kanpur, India
 *CAIR, India

Paper ID 1569472549 12:30-12:45
Analysis of Training Parameters for Classifiers Based on Haar-like Features to Detect Human Faces
Supratim Gupta , Anirban Dasgupta , Aurobinda Routray
 Indian Institute of Technology Kharagpur, India

Paper ID 1569475301 12:45-13:00
An Improved Algorithm For UWB based Imaging of Breast Tumors
*Santu Sardar , *Amit Kumar Mishra*
 ANURAG, DRDO, India
 *University of Cape Town, South Africa

Paper ID 1569478143 13:00-13:15
An Efficient Face Recognition Approach using PCA and Minimum Distance Classifier
*Soumen Bag , * Goutam Sanyal*
 Indian Institute of Technology Kharagpur, India
 *NIT Durgapur, India

Paper ID 1569480133 13:15-13:30
Wrapper based Feature Selection in Hyperspectral Image Data using Self-adaptive Differential Evolution
*Aloke Datta , *Susmita Ghosh, **Ashish Ghosh*
 Center for Soft Computing Research, ISI, Kolkata, India
 *Jadavpur University, India
 **ISI Kolkata, India

Session: Oral Session 10

Date: Saturday, 5 November 2011

Time: 11:15 – 13:30

Venue: CR 8

IMAGE PROCESSING & PATTERN RECOGNITION & COMPUTER VISION

Session Chair: **Prof. K.K.Biswas, IIT Delhi, INDIA**

Paper ID 1569480921 11:15-11:30
Face Recognition using Multimodal Biometric Features
Lakshmi Prabha
Central Mechanical Engineering Research Institute,
India

Paper ID 1569480969 11:30-11:45
Hand Gesture Animation by Key Frame Extraction
Manas Kamal Bhuyan
IIT Guwahati, India

Paper ID 1569481063 11:45-12:00
Performance Characterization of Automotive Computer Vision Systems using Graphics Processing Units (GPUs)
Pavan Nagendra
Delphi Automotive Systems, India

Paper ID 1569481115 12:00-12:15
Imprinted Braille-Character Pattern Recognition using Image Processing Techniques
*Mohd Wajid , * Mohammad Abdullah*
JUIT, India
*King Khalid University, Saudi Arabia

Paper ID 1569481299 12:15-12:30
Combining Analytic phase and Fourier phase for face recognition
Anil Kumar Sao
IIT Madras, India

Paper ID 1569481307 12:30-12:45
Edge based Segmentation for Pedestrian Detection using NIR Camera
Tarun Kancharla , Sanjyot Gindi , Pallavi Kharade , Krishnan Kutty , Vinay G Vaidya
KPIT Cummins Infosystems Ltd., India

Paper ID 1569481377 12:45-13:00
Data mining approach for Coronary Artery Disease screening
*Debabrata Pal , *Kayapanda Mandana , **Chandan Chakraborty*
Indian Institute of Technology, India
*AMRI Hospital, India
**IIT Kharagpur, India

Paper ID 1569473403 13:00-13:15
Road Extraction Framework By Using Cellular Neural Network From Remote Sensing Images
Ayman Nabil
Misr International University, Egypt

ICIIP 2011

Technical Programme

Session: Oral Session 11

Date: Saturday, 5 November 2011

Time: 11:15-13:30

Venue: LT 3

IMAGE PROCESSING, ELECTRICAL AND COMPUTER ENG

Session Chair: **Dr. D. Datta, BARC Mumbai, INDIA**

Paper ID 1569478515 11:15-11:30
e - Document Retrieval using Rough-Set Theory
Abdul Quaiyum Ansari
 Jamia Millia Islamia, New Delhi, India

Paper ID 1569480699 11:30-11:45
Performance of Non-Coherent Signal Detection of M-ary Frequency-Shift Keying in Triple Layer Wireless Sensor Networks
Mohammad Abdullah
 King Khalid University, Saudi Arabia

Paper ID 1569483435 11:45-12:00
Reduced Order Modeling and Robust Controller Design for a Heat Conduction Problem
Paramita Guha , Mashuq Nabi
 Indian Institute of Technology- Delhi, India

Paper ID 1569481337 12:00-12:15
Automated Ovarian Follicle Recognition for Polycystic Ovary Syndrome
*Palak Mehrotra , *Sudarshan Ghosh Dastidar , *Kakoli Ghosh Dastidar , **Chandan Chakraborty*
 Indian Institute of Technology, India
 *G D Institute for Fertility Research, India
 **IIT Kharagpur, India

Paper ID 1569481367 12:15-12:30
Hybrid Feature to Encode Shape and Texture for Content Based Image Retrieval
Harikrishna G.N Rai
 Infosys Technologies Ltd., India

Paper ID 1569480881 12:30-12:45
ROI-based Tissue Type Extraction and Volume Estimation in 3D Brain Anatomy
Nalla Ramaiah
 Indian Institute of Technology Hyderabad, India

Paper ID 1569480901 12:45-13:00
Newborn's Ear Recognition: Can it be done?
Shrikant Tiwari , Aruni Singh , Sanjay Singh
 Institute of Technology, Banaras Hindu University, India

Session: Oral Session 12

Date: Saturday, 5 November 2011

Time: 11:15-13:30

Venue: PROJECT LAB

IMAGE PROCESSING & COMPUTER VISION

Session Chair: **Prof. S. P. Ghrera, Jaypee University of Information Technology, INDIA**

Paper ID 1569481079 11:15-11:30
Learning Based Video Authentication Using Statistical Local Information
*Saurabh Upadhyay , *Sanjay Singh*
GBTU, India
*Institute of Technology, Banaras Hindu University, India

Paper ID 1569481121 11:30-11:45
An Automatic and Simple Breast Tumor Classification using Area matching
Ekram Khan , Syed Abdaheer M
Aligarh Muslim University, India

Paper ID 1569481141 11:45-12:00
Quantitative Clinical Marker Extraction from Colour Fundus Images for Non-Proliferative Diabetic Retinopathy Grading
Sunrita Poddar , Bibhash K. Jha , Chandan Chakraborty
Indian Institute of Technology, Kharagpur, India

Paper ID 1569481183 12:00-12:15
Delay Optimized Array Multiplier for Signal and Image Processing
Subhendu Kumar Sahoo
B.I.T.S., Pilani, India

Paper ID 1569481259 12:30-12:45
Spectral Colour Image Processing
Ravindranath Mannuru , Deekshatulu Bulusu , Chakravarthy Bhagvati
University of Hyderabad, India

Paper ID 1569481301 12:45-13:00
Brightness Preserving Contrast Enhancement in Digital Pathology
*Hrushikesh Garud , Debdoot Sheet , *Amit Suveer , Sri Phani Karri , Ajoy Ray , Manjunatha Mahadevappa , Jyotirmoy Chatterjee*
*Indian Institute of Technology, India
Indian Institute of Technology, Kharagpur, India

Paper ID 1569481329 13:00-13:15
Robust Video Denoising for Better Subjective Evaluation
Aditya Acharya , Sukadev Meher
National Institute of Technology, Rourkela, India

Paper ID 1569481073 13:15-13:30
Adaptive Edge Preserving Regularized Image Restoration
Pankaj K. Sa , Banshidhar Majhi
National Institute of Technology Rourkela, India

Session: Poster Session 5

Date: Saturday, 5 November 2011

Time: 11:15 – 13:30

Venue: Auditorium

IMAGE PROCESSING

Session Chair: **Dr. Vipin Tyagi, Jaypee University of Engineering & Technology, Guna**

Paper ID 1569480137

Automated Maze Solving using Fluid Mechanics based numerical approach

Venkat P P K

Bhabha Atomic Research Centre, India

Paper ID 1569480463

On the Implementation of a Information Hiding Design based on Saliency Map

Tirtha Sankar Das ,Abhishek Basu ,***Subir Kumar Sarkar*

**RCCIIT ,India*

***Jadavpur University, India*

****NERIST, India*

Paper ID 1569480633

A Modified Ant Colony Optimization Based Approach for Image Edge Detection

Rajendran Rajeswari ,Reghunadhan Rajesh Bharathiar University, India

Paper ID 1569480657

DToLIP: Detection and Tracking of Lip Contours from Human Facial Images using Snake's Method

Ghanshyam Prajapati

Gujarat Technological University, India

Paper ID 1569480677

Integration of RSM Model for Optimization of Immobilized Lipase Mediated Solvent-free Synthesis of Flavour Ester by Genetic Algorithm

Vijay Kumar Garlapati, ** Pandu Ranga Vundavilli , *Rintu Banerjee*

**Bioprocess Engineering Laboratory, JUIT, India*

***MIC College of Technology, India*

****IIT Kharagpur, India*

Paper ID 1569481185

Scale Weight Selection for Feature Extraction Using Complex Wavelets: A Framework

Shubha Bhat

Visvesvaraya Technological University, India

Paper ID 1569481203

Image Registration: A Pre-Step in Patient's Position Verification in Radiation Therapy

**Prabhash Singla, Amitava Das, Viren Sardana, Harish Kumar Sardana*

** Panjab University, India*

Central Scientific Instruments Organisation, India

Session: Poster Session 5

Date: Saturday, 5 November 2011

Time: 11:15 – 13:30

Venue: Auditorium

IMAGE PROCESSING

Session Chair: **Dr. Vipin Tyagi, Jaypee University of Engineering & Technology, Guna, INDIA**

Paper ID 1569481309

Image fusion using hierarchical PCA

Ujwala Patil

BVBcollege of engg and Technology, India

Paper ID 1569481353

A new algorithm for 3D object representation and its application for human face verification

Pranali Dhane

KPIT Cummins Infosystem Ltd., India

Paper ID 1569481449

Enhancement of RC5 for Image Encryption

Nikesh Bajaj ,Amit Thakur

Lovely Professional University, India

Paper ID 1569481157

Automatic Facial Feature Point Detection in Image Sequences

Rajesh Patil

MNIT jaipur, India

Paper ID 1569481531

An Efficient and Robust Face Detection Method Using Neuro-Fuzzy Approach

**Chandra Mouli, S. Arun Bharathi, Logesh Srinivasan*

School of Computing Science and Engineering, India

*VIT University, India

Paper ID 1569492249

DNA Encoding Based Feature Extraction for Biometric Watermarking

.Meenakshi Arya

Jaypee Univ of IT, India

Paper ID 1569480989

Graphical Speech Training System for Hearing Impaired

*Resmi Kolankara,*Radhika Chhabra,**Satish Kumar, Harish Kumar Sardana*

Central Scientific Instruments Organisation, India

*Guru Nanak Dev Engineering College, India

**CSIO Sector 30 C Chandigarh INDIA, India