

Sequence of papers

	Plenary
P1	Perception and recognition of faces - human capacities of possible relevance for artificial systems <i>Ken Nakayama, Harvard University, USA</i>
P2	Document Image Understanding and Digital Libraries <i>Henry S. Baird, Lehigh University, USA</i>
P3	Real Time, Real World, Distributed Vision <i>Peter J. Burt, Sarnoff Corporation, USA</i>
P4	The Space of Human Shapes <i>Brian Curless, University of Washington, USA</i>
P5	<i>Partha Pratim Das, Interra System, India</i>

	Oral Session: Computer Vision
CV1	Geometric Structure Computation from Conics <i>Pawan Kumar Mudigonda, C. V. Jawahar and P. J. Narayanan</i>
CV2	A Framework for Activity Recognition and Detection of Unusual Activities <i>Dhruv Mahajan, Nipun Kwatra, Sumit Jain, Prem Kalra and Subhashis Banerjee</i>
CV3	Activity Representation Using 3D Shape Models <i>Amit K. Roy-Chowdhury, Rama Chellappa and Umut Akdemir</i>
CV4	High-Resolution Multiscale Panoramic Mosaics from Pan-Tilt-Zoom Cameras <i>Sudipta N. Sinha, Marc Pollefeys and Seon Joo Kim</i>

	Poster Session: Computer Vision – I
CV1.1	Spatio-Temporal Grouping Models and Prominence Models in Perceptual Organization for Semantic Interpretation of Video Shot <i>Gaurav Harit and Santanu Chaudhury</i>
CV1.2	Active 3-D Object Recognition Using Appearance-Based Aspect Graphs <i>Sumantra Dutta Roy and Nirupama Kulkarni</i>
CV1.3	A Robust and Computationally Efficient Motion Detection Algorithm Based on Σ - Δ Background Estimation <i>A. Manzanera and J. C. Richefeu</i>
CV1.4	Handling Occlusions in Monocular Surveillance Systems <i>Prithwijit Guha, Nisarg Vyas, Amitabha Mukerjee and K. S. Venkatesh</i>
CV1.5	Estimating 3D Hand Position and Orientation Using Stereo <i>Afshin Sepehri, Yaser Yacoob and Larry S. Davis</i>
CV1.6	Modeling Signs Using Functional Data Analysis <i>Sunita Nayak, Sudeep Sarkar and Kuntal Sengupta</i>
CV1.7	IRIS Recognition Method Using Random Texture Analysis <i>Ali Ajdari Rad, Reza Safabakhsh and Navid Qaragozlou</i>

CV1.8	Mathematical Morphology Based Corner Detection Scheme: A Non-Parametric approach <i>R. Dinesh and D. S. Guru</i>
	Poster Session: Computer Graphics - I
CG1.1	A proposed Glass-Painting Filter <i>Priti Sehgal and P. S. Grover</i>
CG1.2	Encoding Quadrilateral Meshes in 2.40 bits per Vertex <i>Pawel Kosicki and Asish Mukhopadhyay</i>
CG1.3	Stylistic Reuse of View-Dependent Animations <i>Parag Chaudhuri, Ashwani Jindal, Prem Kalra and Subhashis Banerjee</i>
CG1.4	MoCap Based New Walk and Climb Synthesis <i>Shrinath Shanbhag and Sharat Chandran</i>
CG1.5	Animation of Lip Motions and Facial Expressions using 3D Homeomorphic Models <i>Erdem Akagunduz and Ugur Halici</i>
CG1.6	Depth+Texture Representation for Image Based Rendering <i>P. J. Narayanan, Sashi Kumar P and Sireesh Reddy K</i>
CG1.7	The Fast Multipole Method for Global Illumination <i>Alap Karapurkar, Nitin Goel and Sharat Chandran</i>
CG1.8	Markerless Motion Capture from Monocular Videos <i>Vishal Mamania, Appu Shaji and Sharat Chandran</i>
	Oral Session: Image Processing
IP1	Use of Linear Diffusion in Depth Estimation Based on Defocus Cue <i>Vinay P. Namboodiri and Subhasis Chaudhuri</i>
IP2	PCA Based Generalized Interpolation for Image Super-Resolution <i>C. V. Jiji and Subhasis Chaudhuri</i>
IP3	Design of A Robust Spread Spectrum Image Watermarking Scheme <i>Santi P. Maity, Malay K. Kundu and Tirtha S. Das</i>
IP4	Multi Example Based Image Retrieval: An ICA Based Approach <i>Jayanta Basak, Koustav Bhattacharya and Santanu Chaudhury</i>
IP5	Learning Layered Pictorial Structures from Video <i>M. Pawan Kumar, P. H. S. Torr and A. Zisserman</i>
IP6	Robust Segmentation of Unconstrained Online Handwritten Documents <i>Anoop M. Namboodiri and Anil K. Jain</i>
	Poster Session: Computer Vision - II
CV2.1	Fitting Coupled Geometric Objects for Metric Vision <i>Paul O'Leary, Matthew Harker and Paul Zsombor-Murray</i>

CV2.2	Efficient Identification Based on Human Iris Patterns <i>A. Chitra and R. Bremananth</i>
CV2.3	Multiple Model Based Point Targets Tracking Using Particle Filtering in InfraRed Image Sequence <i>Mukesh A. Zaveri, S. N. Merchant and Uday B. Desai</i>
CV2.4	Study on Ultrasound Kidney Images Using Principal Component Analysis: A Preliminary Result. <i>C. Karthikeyini, K. Bommanna Raja and M. Madheswaran</i>
CV2.5	Bidimensional Motion Charge Map for Stereovision Disparity Analysis <i>Jos'e M. L'opez-Valles and Miguel A. Fern'andez</i>
CV2.6	Estimation of Depth Information from a Single View in an Image <i>S Murali and N Avinash</i>
CV2.7	Object Identification and Colour Recognition for Human Blind <i>R. Nagarajan, G. Sainarayanan, Sazali Yaacob and Rosalyn R Porle</i>
CV2.8	Partial Shape Retrieval by M-tree and a Bayesian Approach <i>Said Mahmoudi and Mohamed Daoudi</i>
CV2.9	Statistical Object Recognition for Multi-Object Scenes with Heterogeneous Background <i>Marcin Grzegorzec, Kailash N. Pasumarthy, Michael Reinhold and Heinrich Niemann</i>
CV2.10	Moving Object Segmentation in Video Using Stationary Wavelet Transform <i>Debashis Sen, Ajit Singh Sandhu and Harun Prasad Paramasivam</i>
CV2.11	Object Discrimination Using Stereo Vision for Blind through Stereo Sonification <i>G. Balakrishnan, G. Sainarayanan, R. Nagarajan and Sazali Yaacob</i>
CV2.12	Probabilistic Measures for Motion Segmentation <i>Venu Madhav Govindu</i>
CV2.13	Recognition of Partially Occluded Objects Using B-tree Index Structure: An Efficient and Robust Approach <i>R. Dinesh and D.S. Guru</i>
CV2.14	Hough Transform for Region Extraction in Color Images <i>Sarif Kumar Naik and C. A. Murthy</i>
CV2.15	3D Reconstruction of Retinal Blood Vessels from Two Views <i>Martinez-Perez M. E. and Espinosa-Romero A.</i>
CV2.16	A New Morphological 3D Shape Decomposition: Grayscale Interframe Interpolation Method <i>D. N. Vizireanu and R. M. Udrea</i>
CV2.17	EMoTracker: Eyes and Mouth Tracker Based on Energy Minimization Criterion <i>Shahrel A Suandi, Shuichi Enokida and Toshiaki Ejima</i>
CV2.18	On Learning Shapes from Shades <i>Subhajit Sanyal, Mayank Bansal, Subhashis Banerjee and Prem Kalra</i>
	Oral Session: Computer Graphics
CG1	View Synthesis of Scenes with Man-Made Objects Using Uncalibrated Cameras <i>Geetika Sharma, Santanu Chaudhury and J. B. Srivastava</i>
CG2	Multi-Dimensional Transfer Function Design for Scientific Visualization

	<i>Sangmin Park and Chandrajit Bajaj</i>
CG3	Design of A Geometry Streaming System <i>Soumyajit Deb and P. J. Narayanan</i>
CG4	Efficient Light Field Based Camera Walk <i>Aviral Pandey, Biswarup Choudhury and Sharat Chandran</i>
	Poster Session: Image Processing - I
IP1.1	Content Based Image Retrieval in Presence of Foreground Disturbances <i>Rajashekhar and Subhasis Chaudhuri</i>
IP1.2	Skew Estimation in Digitised Documents: A novel Approach <i>D. S. Guru, P. Punitha and S. Mahesh</i>
IP1.3	False Color Suppression in Demosaiced Color Images <i>Jayanta Mukherje, Manfred K. Lan and S.K.Mitra</i>
IP1.4	Algorithms and Hardware Implementation of Real Time Automatic Gain Control Feature for Thermal Imager <i>Himanshu Singh, Ajay Kumar and S. S. Negi</i>
IP1.5	Content Based Retrieval of Emotions in Face Images <i>J Nileema, Priti Chandra, C. Bhagvati, Arun K Pujari and B L Deekshatulu</i>
IP1.6	Multillevel Approach for Color Image Segmentation <i>Kanchan Deshmukh, Abhijeet Nandedkar, Yeshwant Joshi and Ganesh Shinde</i>
IP1.7	Diagnostic Analysis Using Textural Features of the Lachrymal Fluid Crystals Images. <i>N.Yu. Ilyasova, A.V. Kupriyanov, A.M. Malapheev and A.G. Khramov</i>
IP1.8	Contrast Enhancement of Electron Magnetic Resonance Images Using Linear and Non Linear Unsharp Masking Techniques <i>P. Alli, Murali C. Krishna and R. Murugesan</i>
IP1.9	Evaluation of Algebraic Iterative Algorithms for Reconstruction of Electron Magnetic Resonance Images <i>S. Sivakumar, Murali C. Krishna and R. Murugesan</i>
IP1.10	A New Algorithm for Image Reconstruction for Positron Emission Tomography <i>Partha P. Mondal and K. Rajan</i>
IP1.11	Wavelet Packet Based Digital Image Watermarking <i>A. Adhipathi Reddy and B. N. Chatterji</i>
IP1.12	Unsupervised Segmentation of Texture Images Using A Combination of Gabor and Wavelet Features <i>Shivani G. Rao, Manika Puri and Sukhendu Das</i>
IP1.13	Watermarking Scheme for Blind Quality Assessment in Multimedia Mobile Communication Services <i>Santi P. Maity, Malay K. Kundu and Prasanta K. Nandi</i>
IP1.14	Facial Model Improvement Using 3D Texture Mapping Feedback <i>Yongjie Liu, Anup Basu and Jong-Seong Kim</i>
IP1.15	Region of Interest Based Coding of 2-D and 3-D Magnetic Resonance Images

	<i>R. Srikanth and A. G. Ramakrishnan</i>
IP1.16	Fractal Based Image Segmentation <i>Tushar Londhe, Asim Banerjee and Suman K. Mitra</i>
IP1.17	Content Based Image Retrieval with Multiresolution Salient Points <i>Minakshi Banerjee and Malay. K. Kundu</i>
IP1.18	Image Retrieval Using Relevance Feedback Based on Mann-Whitney Test <i>Sanjoy K. Saha, Amit K. Das and Bhabatosh Chanda</i>
	Poster Session: Image Processing - II
IP2.1	A Very Efficient Table Detection System from Document Images <i>S. Mandal, S. P. Chowdhury, A. K. Das and Bhabatosh Chanda</i>
IP2.2	Similarity Retrieval of Symbolic Images with Multiple Instances of Iconic Objects: A Novel Approach <i>P. Punitha and D. S. Guru</i>
IP2.3	Recognition of Unconstrained Malayalam Handwritten Numeral <i>U. Pal, S. Kundu, Y. Ali, H. Islam and N. Tripathy</i>
IP2.4	Video Summarization: A Machine Learning Based Approach <i>Koustav Bhattacharya, Santanu Chaudhury and Jayanta Basak</i>
IP2.5	A Color-texture Histogram from the HSV Color Space for Video Shot Detection. <i>A. Vadivel, M. Mohan, Shamik Sural and A. K. Majumdar</i>
IP2.6	Some New Similarity Measures for Histograms <i>Dietrich Van der Weken, Mike Nachtegaal and Etienne Kerre</i>
IP2.7	Improved Cut-Based Foreground Identification <i>Sharat Chandran, Satwik Hebbar, Vishal Mamanian and Abhineet Sawa</i>
IP2.8	A Perceptual No-Reference Blockiness Metric for JPEG Images <i>R. Venkatesh Babu, Ajit S. Bopardikar and Andrew Perkis</i>
IP2.9	Face Recognition Using Legendre Moments <i>S. Annadurai and A. Saradha</i>
IP2.10	Recognition of Non-symmetric Faces Using Principal Component Analysis <i>N. Krishnan, G. Raja Jothi and G. Lakhs Aaron</i>
IP2.11	G-Images: Towards Multilevel Unsupervised Image Segmentation <i>Harbir Singh and Reyer Zwiggelaar</i>
IP2.12	Cursive Word Recognition Using a Novel Feature Extraction Method and a Neural Network <i>José Ruiz-Pinales and René Jaime-Rivas</i>
IP2.13	Lung Disease Detection Using Frequency Spectrum Analysis <i>Ching Ming Jimmy Wang, Mamatha Rudrapatna and Arcot Sowmya</i>
IP2.14	A Comparative Study on Discrete Orthonormal Chebyshev Moments and Legendre Moments for Representation of Printed Characters <i>Sarat Saharia, Prabin K. Bora and Dilip K. Saikia</i>
IP2.15	Emotion Recognition from Facial Expressions: A Target Oriented Approach Using Neural Network

	<i>Sreevatsan. A N, Sathish Kumar K G, Rakeshsharma S and Mohd. Mansoor Roomi</i>
IP2.16	Local Correlation-based Fingerprint Matching <i>Karthik Nandakumar and Anil K. Jain</i>
IP2.17	CODE: An Adaptive Algorithm for Detecting Corners and Directions of Incident Edges <i>Partha Bhowmick and Bhargab B. Bhattacharya</i>
IP2.18	Transcoding of Document Images for Mobile Devices <i>Tabassum Yasmin, Santanu Chaudhury and Richa Jain</i>
	Oral Session: Image Segmentation
IS1	Information Content Driven Unsupervised Top-Down Image Segmentation <i>Emanuel Diamant</i>
IS2	An Unsupervised Boosting Learning Algorithm for Finite Mixture Model-based Image Segmentation <i>Yu lin-Sen and Zhang Tian-Wen</i>
IS3	A Novel Merging Method in Watershed Segmentation <i>Maria Frucci</i>
IS4	Quantitative Comparison of Automatic ICV Segmentation Methods Using 3T MR Images <i>Suja S. and Rakesh Mullick</i>
	Poster Session: Image Processing - III
IP3.1	Sports Video Characterization Using Scene Dynamics <i>R. S. Jadon, Santanu Chaudhury and K. K. Biswas</i>
IP3.2	Line Segmentation and Analysis with Special Interest to the Duct of a Line <i>Carola Schonlieb and Kung Chieh Wang</i>
IP3.3	CONFERM: Connectivity Features with Randomized Masks and Their Applications to Image Indexing <i>Arindam Biswas, Partha Bhowmick and Bhargab B. Bhattacharya</i>
IP3.4	A Modified BTC Using Quincunx Subsampling and Pattern Fitting for Very Low bpp <i>Bibhas Chandra Dhara and Bhabatosh Chanda</i>
IP3.5	Multi Biometric System for Verification with Minimum Training Data <i>Mayank Vatsa, Richa Singh and P. Gupta</i>
IP3.6	Bitplane Based Area Morphology for CBIR <i>K. Kiran Kumar, Chakravarthy Bhagvati, A. K. Pujari and B. L. Deekshatulu</i>
IP3.7	A System for Joining and Recognition of Broken Bangla Numerals for Indian Postal Automation <i>K. Roy, U. Pal and B. B. Chaudhuri</i>
IP3.8	Recognition of Modification-based Scripts Using Direction Tensors <i>Lalith Premaratne, Yaregal Assabie and Josef Bigun</i>
IP3.9	Correcting Colours for Aided Recomposition of Fragments <i>G. Carlomagno, F. Renna, N. Ancona, N. Mosca, G. Attolico and A. Distante</i>
IP3.10	A Robust Nonparametric Estimation Framework for Implicit Image Models

	<i>Himanshu Arora, Maneesh Singh and Narendra Ahuja</i>
IP3.11	Robust Fingerprint Classification Using An Eigen Block Directional Approach <i>P Madhusoodhanan and Sumantra Dutta Roy</i>
IP3.12	Minutiae Verification in Fingerprint Images Using Steerable Wedge Filters <i>Sharat Chikkerur, Venu Govindaraju, Sharath Pankanti and Ruud Bolle</i>
IP3.13	Recognition of Binary Image Represented by A String of Numbers <i>Kallol Bhattacharya, Krishnendu Goswami and Dipankar Biswas</i>
IP3.14	Searching in Document Images <i>C. V. Jawahar, Million Meshesha and A. Balasubramanian</i>
IP3.15	A Study on the Application of Color Transfer Technique for Video Compression <i>K. Madhu Sudhana Rao and Suman K. Mitra</i>
IP3.16	Hidden Markov Model Based Structuring of Cricket Video Sequences Using Motion and Color Features <i>M. H. Kolekar and S. Sengupta</i>
IP3.17	Key Video Object Plane Selection by MPEG-7 Visual Shape Descriptor for Summarization and Recognition of Hand Gestures <i>M. K. Bhuyan, D. Ghosh and P. K. Bora</i>
IP3.18	An Architecture for Real Time Face Recognition Using WMPKA <i>A. Pavan Kumar, V. Kamakoti and Sukhendu Das</i>
	Oral Session: Biometric and Related Application
BR1	Fingerprint Classification Using Orientation Field Flow Curves <i>Sarat C. Dass and Anil K. Jain</i>
BR2	Multi-Cue Exemplar-Based Nonparametric Model for Gesture Recognition <i>Vinay D. Shet, V. Shiv Naga Prasad, Ahmed Elgammal, Yaser Yacoob and Larry S. Davis</i>
BR3	Towards A Robust and Real-time Face Detection and Tracking Framework. <i>Peihua Li and Kai Xie</i>
BR4	Robust Face Recognition by Fusion <i>K. Srinivasa Rao, Lilesh S. Ghadi, Y. Anoop Kumar and A. N. Rajagopalan</i>
BR5	Dynamic Hand Gesture Recognition Using Predictive Eigen Tracker <i>Kaustubh S. Patwardhan and Sumantra Dutta Roy</i>
BR6	Fast and Robust Projective Matching for Fingerprints Using Geometric Hashing <i>Rintu Boro and Sumantra Dutta Roy</i>

	Tutorial
T1	Detection and Tracking for Surveillance <i>Larry S. Davis, University of Maryland, USA</i>

T2	Trainable Visual Models for Object Class Recognition <i>Andrew Zisserman</i> , University of Oxford, UK
T3	Image Registration with Applications to Medical Imaging <i>Baba C. Vemuri</i> , University of Maryland, USA