



ICVGIP'02

ICVGIP-2002 Program Schedule

December 16-18, 2002

Space Applications Centre Ahmedabad

Day One (December 16, 2002)

08:30 – 09:30	Registration
09:30 – 10:10	Inaugural Session
10:10 – 11:00	Plenary Session – I: Satellite Imaging Sensors - A S Kiran Kumar
11:00 – 11:30	Tea/ Coffee Break
11:30 – 12:50	Oral Session 1: Geometry Based Processing

1. On Using Priors In Affine Matching
V. Govindu and M. Werman
2. Background Sprite Generation Using MPEG Motion Vectors
R. Venkatesh Babu and K. R. Ramakrishnan
3. A Simple Method For Interactive 3D Reconstruction And Camera Calibration From A Single View
A. M. Kushal, V. Bansal and S. Banerjee
4. An Uncalibrated Lightfield Acquisition System
P. Sharma, A. Parashar, S. Banerjee and P. Kalra

12:50 – 14:00	Lunch Break
14:00 – 15:30	Poster Session 1: Video Processing and Graphics

1. Fast Method For Textual Annotation Of Compressed Video
A. Jain and S. Chaudhuri
2. Task Directed Imaging In Unstructured Environments By Cooperating Robots
V. A. Sujan
3. Generic Video Classification: An Evolutionary Learning Based Fuzzy Theoretic Approach
R. S. Jadon, S. Chaudhury and K. K. Biswas
4. CONDENSATION-Based Predictive EigenTracking
N. Gupta, P. Mittal, S. Dutta Roy, S. Chaudhury and S. Banerjee
5. Compressed Domain Video Resolution Enhancement: Use Of Motion Vectors
N. Kaulgud, J. Karlekar and U. B. Desai
6. Use Of Vertical Face Profiles For Text Dependent Audio-Visual Biometric Person Authentication
V. Pathangay and B. Yegnanarayana
7. Wavelet Based Detection And Modified Pipeline Algorithm For Multiple Point Targets Tracking In Infrared Image Sequences
M. A. Zaveri, A. Malewar, S. N. Merchant and U. B. Desai
8. Opti-GVF Snake Model For Face Segmentation From Video Sequences
P. K. Biswas and M. Pandit
9. Context-Based Interframe Coding Of MR Images
R. Srikanth and A. G. Ramakrishnan
10. Parallel Levenberg-Marquardt-Based Neural Network Training On Linux Clusters – A Case Study
N. N. R. Ranga Suri, D. Deodhare and P. Nagabhushan
11. A Statistical Approach To Robust Video Temporal Segmentation
R. Kumar and V. Devatha
12. Face Detection And Recognition In An Image Sequence Using Eigenedginess
B. S. Venkatesh, S. Palanivel and B. Yegnanarayana
13. Enhanced Video Representation Using Objects
A. Mahindroo, B. Bose, S. Chaudhury and G. Harit
14. Synthetic IR Scene Simulation Of Air-Borne Targets
S. T. More, A. A. Pandit, S. N. Merchant and U. B. Desai
15. Geometry Based Connectivity Compression Of Triangular Meshes
S. Nachiappan, S. Kapoor and P. Kalra
16. Improved Tracking Of Facial Features In Head And Shoulder Video Sequences
S. Sengupta, J. M. Hannah and P. M. Grant

17. Effective Object Segmentation In A Traffic Monitoring Application
A. Bevilacqua

15:30 – 15:50

Tea/Coffee Break

15:50 – 16:40

Plenary Session – II: Computer Vision and the Art of Special Effects - *Steve Sullivan*

16:40 – 18:00

Oral Session 2: Optical Character Recognition

1. A Cascaded Scheme For Recognition Of Handprinted Numerals
U. Bhattacharya, T. K. Das and B. B. Chaudhuri
2. Character Decompositions
S. H. Srinivasan, K. R. Ramakrishnan and S. Budhlakoti
3. An Adaptive Character Recogniser For Telugu Scripts Using Multiresolution Analysis And Associative Memory
A. K. Pujari, C. Dhanunjaya Naidu and B. C. Jinaga
4. On-Line Digit Recognition Using Off-Line Features
A. Teredesai, E. Ratzlaff, J. Subrahmonia and V. Govindaraju

19:00 – 20:30

Cultural Program – Padmashree Vishwamohan Bhatt

20:30 – 22:00

Conference Banquet – Silver Oak

Day Two (December 17, 2002)

09:30 – 10:20

Plenary Session – III: Detection and Tracking of People under Severe Occlusion: A Multiple Camera Approach - *Larry Davis*

10:20 – 11:00

Oral Session 3: Recognition and Classification

1. Improving Object Recognition By Fusion Of Multiple Views
F. Deinzer, J. Denzler and H. Niemann
2. Statistical Approaches to Material Classification
M. Varma and A. Zisserman

11:00 – 11:20

Tea/ Coffee Break

11:20 – 13:00

Oral Session 4: Multi-Scale Processing

1. M-Band Wavelet Based Texture Features For Content Based Image Retrieval
M. Kokare, B. N. Chatterji and P. K. Biswas
2. Hue Preserving Color Image Enhancement Using Multi-Scale Morphology
S. Mukhopadhyay and B. Chanda
3. Low-Band-Shifted Hierarchical Backward Motion Estimation And Compensation For Wavelet-Based Video Coding
Y. Yuan and M. K. Mandal
4. Improved Encoding Of Wavelet Coefficients Extracted From Multispectral And Hyperspectral Image Data
V. Makkapati and R. Kumar

13:00 – 14:00

Lunch Break

14:00 – 15:50

Poster Session 2: Recognition And Classification/ 3D and Multiple View Geometry

1. Classification Of Sodar Data Using Fractal Features
A. Mukherjee, P. Pal and J. Das
2. Content Based Image Search Over The World Wide Web
V. Rathi and A. K. Majumdar
3. Attribute Selection For Classificatory Analysis Using A Probabilistic Approach
A. Ahmad and L. Dey
4. Rotation Invariant Color Texture Classification In Perceptually Uniform Color Spaces
R. Manthalkar, P. K. Biswas and B. N. Chatterji
5. ANN Based Colour Detection In Tea Fermentation
S. Borah, M. Bhuyan and H. Saikia
6. Human Face Detection In Cluttered Color Images Using Skin Color And Edge Information
K. Sandeep and A. N. Rajagopalan
7. Representation And Extraction Of Nodal Features Of DevNagri Letters
R. Kapoor, D. Bagai and T. S. Kamal

8. A Biomedical Information System For Combined Content-Based Retrieval Of Spine X-Ray Images And Associated Text Information
S. Antani, L. R. Long and G. R. Thoma
9. Height From Gradient Using Surface Curvature And Area Constraints
T. Wei and R. Klette
10. Recovering Orientation Of A Textured Planar Surface Using Wavelet Transform
T. Greiner and S. Das
11. Dense Stereo Matching Based On Propagation With Voronoi Diagram
L. Tang, H. T. Tsui and C. K. Wu
12. Off-Line Sinhala Handwriting Recognition Using Hidden Markov Models
S. Hewavitharana, H. C. Fernando and N. D. Kodikara
13. Multi-Oriented Text Lines Detection And Their Skew Estimation
U. Pal, S. Sinha and B. B. Chaudhuri
14. Maximum Entropy Models For Skin Detection
B. Jedynek, H. Zheng, M. Daoudi and D. Barret
15. A Symmetry Based Clustering Technique For Multi-Spectral Satellite Imagery
P. Pal and B. Chanda
16. Image Retrieval Using One-Sided Linear Prediction Based Texture Modelling
P. K. Bora and N. Saikia
17. Content Based Image Retrieval Using Motif Cooccurrence Matrix
N. Jhanwar, S. Chaudhuri, G. Seetharaman and B. Zavidovique
18. Video-Assited Global Positioning in Terrain Navigation: Hough Transform Solution
H. V. Le, G. Seetharaman and H. Szu
19. Feature Selection In Example-Based Image Retrieval Systems
V. S. Naga Prasad, A. G. Faheema and S. Rakshit
20. Algebraic Constraints On Moving Points In Multiple Views
S. Kuthirummal, C. V. Jawahar and P. J. Narayanan
21. Polygonal Approximation Of Closed Curves Across Multiple Views
M. Pawan Kumar, S. Goyal, C. V. Jawahar and P. J. Narayanan
22. Multiview Constraints For Recognition Of Planar Curves In Fourier Domain
S. Kuthirummal, C. V. Jawahar and P. J. Narayanan

15:50 – 16:10	Tea/Coffee Break
16:10 – 17:00	Plenary Session – IV: (B.N.Chatterjee Plenary Lecture) Variational Methods in Computer Vision - <i>Olivier Faugeras</i>
17:00 – 18:00	Invited Talk: Interactive Rich Media - <i>P Anandan</i>
18:00 – 19:00	ICVGIP Organizational meeting
19:00 – 21:00	Director's Dinner

Day Three (December 18 2002)

09:30 – 10:20	Plenary Session V: Beyond Perspective- <i>Steve Seitz</i>
10:20 – 11:00	Oral Session 5: Graphics

1. Advancing Fan-Front: An Efficient Connectivity Compression Technique For Large 3D Triangle Meshes
S. P. Mudur, S. Venkata Babji and D. Shikhare
2. Irregular, Unknown Light Sources In Dynamic Global Illumination
S. Chandran and M. P. Srivastava

11:00 – 11:20	Tea/ Coffee Break
11:20 – 12:20	Oral Session 6: Applications

1. Clustering Using Annealing Evolution: Application To Pixel Classification Of Satellite Images
U. Maulik, S. Bandyopadhyay and M. K. Pakhira
2. Classification Of Objects In SAR Images Using Scaling Features
U. S. Ranjan and A. Narayana
3. Eye Tracking Using Active Deformable Models
S. Ramadan, W. Abd-Almageed and C. E. Smith

12:20 – 13:00

Break

13:00 – 14:00

Lunch Break

14:00 – 15:30

Poster Session 3: Image Processing and Segmentation

1. Efficient Object Extraction Using Fuzzy Cardinality Based Thresholding And Hopfield Network
S. Bhattacharya, U. Maulik and S. Bandyopadhyay
2. A NURBS-Based Technique For The Segmentation Of Medical Images
R. G. N. Meegama and J. C. Rajapakse
3. Edgeless Active Contours For Natural Color Images Based On Angular Mapping And Level Sets
S. Kulkarni, B. N. Chatterji, S. A. Joshi and A. K. Ray
4. Robust And Blind Spatial Watermarking In Digital Image
S. P. Maity and M. Kumar Kundu
5. Automated Detection Of Tracks In Mountainous Terrain Using IRS-1C/1D Images
D. Chaudhuri, A. Mishra, V. Gohri and J. K. Sharma
6. Digital Watermarking Of Satellite Images
Y. Chauhan, P. Gupta and K. L. Majumder
7. A Polyphase Filter Bank Interpretation Of Coherent Image Formation
C. Bhattacharya
8. Unsupervised Statistical Method For Edgel Clustering With Applications To Shape Localization
F. Destrempe and M. Mignotte
9. Adaptive Unequal Channel Protection For JPEG2000 Images
V. S. Sanchez and M. K. Mandal
10. Motion-Free Superresolution
P. K. Vajapeyazula and A. N. Rajagopalan
11. Image Denoising Using Wavelet Thresholding
L. Kaur, S. Gupta and R. C. Chauhan
12. A Technique For Signature Preserving Enhancement
S. Palnitkar, B. Vaghela, B. Kartikeyan and S. Chowdhury
13. Super-Resolution Imaging : Use Of Zoom As A Cue
M. V. Joshi and S. Chaudhuri
14. Blood Cell Segmentation Using EM Algorithm
N. Sinha and A. G. Ramakrishnan
15. Combinatorial Classification Of Pixels For Ridge Extraction In A Gray-Scale Fingerprint Image
A. Bishnu, P. Bhowmick, J. Dey, B. B. Bhattacharya, M. K. Kundu, C. A. Murthy and T. Acharya
16. Adaptive Fuzzy Connectedness-Based Medical Image Segmentation
A. Pednekar, I. A. Kakadiaris and U. Kurkure
17. Determination Of Minutiae Scores For Fingerprint Image Applications
P. Bhowmick, A. Bishnu, B. B. Bhattacharya, M. Kumar Kundu, C. A. Murthy and T. Acharya
18. Relative Fractal Coding And Its Application In Satellite Image Compression
S. K. Ghosh, J. Mukhopadhyay, V. M. Chowdary and A. Jeyaram
19. Segmentation Of Images Using Level Set Analysis
P. P. Mohanta, A. Sen and D. Prasad Mukherjee
20. Semi-Automatic Road Extraction Algorithm For High Resolution Images Using Path Following Approach
V. Shukla, R. Chandrakanth and R. Ramachandran
21. Adaptive Rank-Ordered Mean Filter For Removal Of Impulse Noise From Images
M. Singh and P. K. Bora
22. Early Stage Detection Of Tumors In Mammograms
B. V. Pawar and S. Patil
23. A Fast Segmentation Algorithm Revisited
S. Chandran and K. K. Madhesiya
24. Discrete Multiwavelet Transform Based SAR Image Speckle Reduction
S. Bhattacharya, V. R. Gujaraty and S. S. Rana

15:30 – 16:00

Award & Concluding Session

16:00 – 16:30

High Tea