BIO-DATA

1. Name   :   **Dr. Sukhendu Das**.

2. Date of birth :   June XY, 19AB.

3. Designation   :   Professor,
   and Address   Deptt. of Computer Science and Engg.,
   IIT Madras, Chennai - 600036.
   INDIA.

4. Academic qualifications:

Degree	Institute	Area/Discipline	Year
Ph. D	IIT Kharagpur	Computer Vision	1993
M. Tech	IIT Delhi	Computer Technology	1987
B. Tech	IIT Kharagpur	Electrical Engg.	1985

5. Experience :

    (a)   Work in India :

Organization	Designation	Period
IIT Madras	Lecturer	1989 - 1994.
IIT Madras	Asstt. Prof.	1994 – 2004.
IIT Madras	Assoc. Prof.	2004 - 2010.
IIT Madras	Professor	since June 2010.

    (b)   Work Abroad:

- Post-doctoral research work at the Deptt. of ET&IT, University of Applied Sciences, Pforzheim, Germany, from Dec. 2001 till May 2003.

-       Gledden visiting scientist at the Deptt. Of CS&SE, University of Western Australia, Perth, Australia, from June – Aug. 2006.

-       Australian Leadership Award Fellowship at the Deptt. Of CS&SE, University of Western Australia, Perth, Australia, from July – Sept. 2008.

(c)   Visits Abroad :

Duration	Place	Purpose
Oct. - Nov. 1995;	Neunkirchen, Germany.	Consultancy assignment.
Sept. 2002	Toulouse, France	Present a paper at EUSIPCO '02 Conf.
Sept. 2002	Malaga, Spain	Present a paper at IASTED/VIIP '02 Conf.
Aug. 2006	Hong Kong	Present a paper at IEEE-ICPR '06 Conf.
Jan. 2008	Seoul, Korea	Tutorial talks on "Computer Vision"
Nov. 2009	Cairo, Egypt	Present a paper at IEEE – ICIP '09 Conf.
July 2010	Seattle, USA	Microsoft Faculty Summit, 2010

6. Teaching Interests :

Course No: Course Title

A. *Software:*

   * **CS 1100   Introduction to Computing**

* CS 711   **Introduction to Operating Systems**
CS 3100   Programming Languages

B. *Hardware:*

* CS 2200   **Switching theory and Digital Design (& Lab.)**
* CS 2600   **Computer Organization**
* CS 321   **Integrated Circuit Electronics (& Lab.)**
CS 324   Microprocessors

C. *Theory:*

* CS 2800   **Data Structures and Algorithms (& Lab.)**
* CS 240   **Numerical Computing**
CS 6030   Mathematics Concepts in Computer Science

D. *Applications:*

* CS 6360   **Computer Graphics**
* CS 6350   **Computer Vision**
* CS 6710   **Advances in Visual Perception**
* CS 6340   **Soft Computing**
* CS 6870   **Digital Video Processing**
CS 6310   Artificial Neural Networks.

* - Courses taught so far.

7. Research interests :

Visual Perception - Computer Vision, Digital Image Processing, Pattern Recognition; Computer Graphics; Biometry; Computational Science and Engineering; Soft Computing.

8. Guidance   (Ph. D. – 3 (+3); / M. S. – 21 (+4); / M. Tech. –   34 (+1);
/ B. Tech. – 7.):

Degree	Year	Name of the student	Title of the thesis
*Ph. D	2001	R. Balasubramanian	Some mathematical methods and simulation for the reconstruction of 3-D object primitives from arbitrary perspective views.
Ph. D	2010	A. Dyana	**Video Object Representation for Content Based Video Retrieval (CBVR).**
*Ph. D	2010	T. Mirnalinee	A Multi-stage Framework Based on Salient Features, for Automatic Extraction of Road Network from Satellite Images of Urban Areas.
*M. S	1997	N. Sudha	Principal Component Neural Networks for Applications in Signal Processing.
M. S.	1998	N. Jagadeesh Babu	Texture Invariant Image Matching.
M. S.	1999	M. Sanjay	Matching Noisy Bitmap Images Based on Distance Transform.
*M.S.	2001	P. Kiran Kumar	Texture Edge Extraction using One Dimensional Processing
*M.S.	2002	S. Ramesh	Edginess Image for Face Recognition
*M. S.	2002	K. Sharat Reddy	Source and System Features for Speaker Recognition
*M. S.	2003	KVS Prasada Reddy	Automatic road detection from satellite images of urban areas.
*M. S.	2004	N.V. Palenkeswara Rao	Sneha-Samuham:A Parallel Computing Model over Grids
*M. S.	2004	P.Vinod	Text-dependent audio-visual biometric person authentication
*M. S.	2004	B. S. Venkatesh	Face detection in still gray image using Neural Networks
*M. S.	2006	A. Pavan Kumar	A WMPCA-based Face Recognition System on Programmable chip

M. S.   2007   Shivani G Rao   Estimation of orientation of an inclined planar texture using DWT: An approach to shape from texture

M. S.   2007   Arpita Patra   Development of Efficient method for face Recognition and Multimodal biometry

M. S.   2007   Manish Kalra   Framework for the fusion of 3D appearance and 2D shape cues for generic object recognition

M. S.   2007   P. Deepti   Generic object recognition with virtual Manifolds and its application

M. S.   2007   Lalit Gupta   Efficient texture segmentation by integrating region and edge information

M. S.   2008   Surya Prakash   Active Contour Based Foreground Object Segmentation

*M. S. 2008   R. Abhilash   Video Cut and Paste for 3D Composition – A Method of Video-Based Rendering for Virtual Reality Applications

M. S.   2009   Sunando Sengupto   Issues in 3D Reconstruction from Multiple Views

*M. S. 2010   Suranjana Samanta   Methods of feature Ranking and Selection For Pattern Classification

*M. S. 2010   Suneetha Nadella   Object Oriented Framework for Hardening the Linux Kernel

M.Tech 1991 S. Bandyopadhyay   An Approach to Determine the 3-D Position and Orientation of a Vehicle.

M.Tech 1994 M.Kulanthaivel   Recognition of 2-D Polygonal Shapes using Pattern Specific Features.

M.Tech 1994 S. R. Sharma   A study of Real Time Tracking of Moving Objects in Noisy Environments.

M. Tech 1994 S. Sujatha   Rendering of Simple 3D Geometrical Shapes.

*M.Tech 1994 B. M. B. Tikarya   Estimation of Motion and Structure Parameters from a Sequence of Noisy Images using Kalman Filter Approach.

M. Tech 1995 A. S. Arumugham   Errors in Reconstruction of a 3-D Line from Noisy Stereo Images : some Studies and Experimentation.

M. Tech 1995 Anupam   Depth Map Construction from Line Correspondences in Stereo Images.

*M. Tech 1995   Babu Thomas   Stereo Correspondences using Gabor Logons and Neural Networks.

*M. Tech 1996 V. Somanath   Compression Techniques for Database Query Project : INQUEST.

M. Tech 1996 V. K. Beri   Solid Object Modeling and Object Management for a 3-D Graphics Package: SOLIDRAW.

M. Tech 1996 B. Shivaramakrishnan   Viewing and Rendering Schemes for a 3-D Graphics Package: SOLIDRAW.

M. Tech 1996 P. Narasimhamoorthy   Raster Snap Function for Vectorization of Image Maps.

*M. Tech 1997 Viswam Gampala   3D Graphics Engine – An Object Oriented Approach (Visual Realism, Graphical User Interface).

*M. Tech 1997 S. Chandramouleeswaran   3D Graphics Engine – An Object Oriented Approach (Scene Definition and Management).

*M. Tech 1998 Ravindranathan K. R.   Unsupervised texture Segmentation Using Gabor Filters.

*M. Tech 1998 Amit Kumar Agrawal   An Interactive Graphics System for the Design of Buildings : A Structured Approach.

M. Tech 1998 H. M. Rafi Assadi   Optimal Filtering Approach and Neural Network Model for Edge Detection.

M. Tech 1998 Hanumanthu R.   Fingerprint identification.

M. Tech 1998 Sunil Kumar   Ridge Orientation based Fingerprint Matching.

*M. Tech 1998 S. Jagadish   Surface Reconstruction from Planar Contours Extracted from MRI Images.

M. Tech 1999 J. N. Subramanyam   Design and Development of an Image Processing Engine on X-Windows.

M. Tech 1999 B. V. J. Manohar   Reconstruction of Road Network from
Aerial Images for GIS Applications.

M. Tech 1999 J. Rajamohan   Raster Snap function for Vectorization of
Bitmap Images.

M. Tech 1999 K. S. Praneshwar Rao   Organization of Video database for
Browsing and Retrieval.

*M. Tech 1999 V. Kondala Rao   Speaker Clustering using SOM.

M. Tech 1999 D. V. Bhaskar Reddy   Development of a Software Tool for the Aid
of Cricket Umpires.

M. Tech 1999 G. Vidyasagar   Person Authentication Using Audio and
Video Data.

M. Tech 2006 Pragya Minz   Navigation tool in 3D environment
  (Dual)

M. Tech 2008 M. P. Subramanian   Content Based Video Retrieval Based on
Shape and Motion Trajectory of Video Objects.

M. Tech 2008 Krishna Biswas   Design and Implementation of a Game
Description language using OpenGL

M. Tech 2009 Nimit Jain   3-D Modeling and Realistic Image Based
  (Dual)   Rendering

M. Tech 2010 Naren Krishna   LDA Based Modular Eigen Analysis for
  (Dual)   Efficient Face Recognition

*M. Tech 2010 Shruti Srivastava   Text-to-Touch Converter System For
  (Dual)   Visually Challenged

 M. Tech 2010 Harshita Khanna   Effect of Defocusing in Estimation of
  (Dual)   Orientation of Planar Textured Surface

B. Tech 1995 Praveen Kumar   Image Compression techniques : A
comparative study.

*B. Tech 1998 Ajay Chakraborty   Traffic Flow Simulator.

B. Tech 1998 Chandrasekhar Yalangi   A Graphical Tool for the Aid of
Cricket Umpires.

*B. Tech 2007   J. Deepak   Procedural Texture Synthesis and 3D
Surface Wrapping

B. Tech 2008   Mahesh Kumar Reddy   A Real-time Face Recognition System using
                                                          Modular PCA approach

B. Tech 2009   Ravi Teja   Image Enhancement, Segmentation and
                                                 Pose Estimation in Videos.

B. Tech 2010 N. Hari Prasad   Study of Foreground Image Segmentation
                                            Using Support Vector Machines

  * --   Guided jointly with another faculty member.

  Currently, guiding **three (3) Ph. D and four (4) M.S. Scholars and
One (1) M. Tech** student.

9. Courses introduced:

  CS 635   **Computer Vision. (1994, modified July 2005)**

  CS 671   **Advances in Visual Perception (July 2005)**

  CS 687   **Digital Video Processing (Oct. 2008)**

10. Lab/Design/Development Activity :

  (i)   **VISUALIZATION and PERCEPTION Laboratory** was
  established and set up in August 2004.
  (URL: //www.cse.iitm.ac.in/~sdas/vplab.html).

  (ii)   Faculty in-charge of departmental computing facility (DCF),
            from 2003-2005.

  (iii)   Faculty in-charge - Classroom Electronic facility – PC +
  projection + PA system; 2004-2009.

11. Projects undertaken:

    (a) Sponsored:

(Prior to year 2004)

Agency	Value	Title	Other Coordinators	Year
ONR, USA	Rs. 19.00 Lakhs	&&	Prof. B. Yegnanarayana	1998-2001
ISRO, INDIA	Rs. 7.80 Lakhs	##	Prof. B. Yegnanarayana, Dr. Koshy Varghese	1997-2000
INTEL ASIA	Rs. 60.00 Lakhs	@@	Prof. B. Yegnanarayana Dr. C. Chandrasekhar Dr. Hema A Murthy	1999-2004
ISRO, INDIA	Rs. 1.00 Lakhs	**	Prof. B. Yegnanarayana	1998-1999

&& - Information Recovery from Partial Data for Image Processing Applications.

- Development of techniques for Classification of Urban Features from remote Sensed Data for use in GIS Applications : A Multi-disciplinary approach.

@@ - Development of Phonetic Engine for Speech in Indian Languages.

** - Neural Network Models for Health Monitoring of Propulsion Systems.

Since year 2004:

Agency	Value	Title	Whether as PI	Year
MHRD (GOI)	Rs. 20.80 Lakhs	&&	YES	2004-2006 (Completed)
DRDO (GOI)	Rs. 10.00 Lakhs	$$	YES	2004-2006 (Completed)
DRDO (GOI)	Rs. 22.92 lakhs	**	YES	2004-2006 (Completed)

MCIT (GOI)	Rs. 39.60 Lakhs	%%	NO	2005-2007
DST (GOI)	Rs. 14.04 Lakhs	§§	NO	2005-2007
DRDO (GOI)	Rs. 9.85 Lakhs	@@	YES	2006-2007
DRDO (GOI)	Rs. 9.95 Lakhs	*##*	YES	2007-2009
MCIT (GOI)	Rs. 40.4 Lakhs	++	NO	2008-2011
ICMR (Indo-German)	Rs. 15.00 lakhs	!!	NO	2008-2010
MCIT (GOI)	Rs. 104.0 Lakhs	~~	NO	2009-2012

- && - Multi-modal biometrics based secured access system using face and fingerprint recognition.

- $$ - SAR image exploitation, Classification of Man-made and Natural regions, Automatic Target Detection.

- ** - Probabilistic Classification of Satellite Images to Obtain Landform Patterns.

- %% - Minimal Object Oriented Linux.

- §§ - Integration Knowledge system on soil Nutrient management through Image Processing of Chromatograms.

- @@ - Recovery of 3D shapes based on multiview textures.

- *##* - Combining Classifiers using Decision Fusion: An approach to Probabilistic Landform Segmentation.

- ++ - Research and Development of Multi-camera algorithms for security and surveillance.

- !! - Telemedicine station for Rural Health Monitoring and diagnosis of epidemic diseases.

- ~~ - Service Oriented Architecture and its implementation for the Linux Kernel, middleware (NRCFOSS Phase II)

(b) Consultancy :

Agency	Value	Title	Other Coordinators	Year
PGG, Nuenkirchen,	Rs. 2.5 lakhs Germany.	**	Prof. B. Yegnanarayana (PI)	1994-96
HCL Technologies, India	Rs. 0.45 Lakhs	&&	NIL	2000-01
Metricone Technologies, India	Rs. 1.0 Lakhs	@@	NIL	2001
HCL Technologies, India.	Rs. 0.40 Lakhs	%%	NIL	2001
ATB, (GOI) Secundrabad	Rs. 15.00 lakhs	++	Dr. Anurag Mittal	2008-09
DRDO (GOI)	Rs. 9.98 Lakhs	|""|	Prof. T. S. Natarajan (Deptt. of Phys.)	2009-11

- ** - Image Processing algorithms for GIS.

- && - Algorithms for Simulation and Image Analysis

- @@ - Algorithms for Fingerprint Identification

- %% - Traffic Signal Identification

- ++ - Sizing of Sensors for Tracking Trainee Movements in Simulation Arena.

- |""| - Smart segmentation of objects in images

12. Text Books, Monographs, etc. Authored :

NIL

13. CEC programs and Conferences organized :

    (a)   CEC Short-term course on "**Computer Graphics and Image Processing**", conducted at IIT Madras during 18-19th, April, 1997, for Industries and Academic Institutions, with Dr. Hema A Murthy.

    (b)   Co-convenor of the **International Conference on Multimedia Processing and Systems**, IIT Madras, Chennai, during August 13-15, 2000.

    (c)   Faculty convenor on the **IBM-day** event held in IIT Madras, on August 11, 2007.

14. Awards/Honours Received & Patents:

    (i)   Winner (best design) at the design contest of "SOPC World" event on Embedded Systems and VLSI systems, **conducted by ALTERA in Bangalore, 2004; jointly with Dr. V. Kamakoti and Pavan Kumar.**

    (ii)   Best paper award at National Conference on Image Processing (NCIP '05), Bangalore, for Vinod Pathangay and Dr. Sukhendu Das for their work published in the paper entitled "Exploring the use of selective Wavelet Subbands for PCA based Face Recognition", March 2005.

    (iii) Best paper at National Conference on Computer Vision, AI and Robotics (NCCVAIR '07), at Chennai, awarded to Sunando Sengupta and Dr. Sukhendu Das for their work published in the paper entitled "Error Norm for Determining 3D Structure from Different Appearances of an Object", October 2007.

    (iv) Patent approved for filing (IC&SR, IIT Madras) entitled: "A novel method of Subband face image Representation and a process to obtain the same for efficient face recognition" Sept., 2005; currently withheld.

15. Professional Societies involved: IEEE, USA (Computer and SMC).

    Reviewed technical papers for the following international journals (from 2004 till date):

  (i)   IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)
  (ii)   IEEE Transactions on Image Processing (T-IP)
  (iii) IEEE Transactions on Systems, Man and Cybernetics (T-SMC)
  (iv)   International Journal of Computer Vision (IJCV)
  (v)   Pattern Recognition Letters (PRL).
  (vi)   Journal of Information Fusion
  (vii) International Journal of Biomedical Imaging
  (viii) Signal Processing
  (ix)   Pattern Recognition
  (x)   Neuro-Computing
  (xi)   Fuzzy Sets and Systems
  (xii) Image and Vision Computing
  (xiii) IET – Transactions on Image processing

16. Research work in progress and planned:

  (a)   Analyzing video sequence for tracking, estimation, detection and reconstruction of moving objects and CBVR - noisy and noise-free cases.
  (b)   Exploration of invariant shape features for shape matching and target detection.
  (c)   Content based Video object (shot) representation and retrieval.
  (d)   Face Recognition in unconstrained environments and from degraded (low quality) snaps.
  (e)   GDL – a new "Game Description language", with OpenGL game engine modules
  (f)   Video-based rendering for 3-D composition
  (g)   Foreground object detection
  (h)   Established a framework on GENERIC OBJECT RECOGNITION
  (i)   Generic Scene classification, using perceptual models
  (j)   Decision fusion and multi-modal feature fusion strategies for applications in biometry, scene classification, probabilistic classification of aerial images etc.
  (k)   Matching images from noisy scenes - special relevance to texture and satellite images.

(l)   Adaptive edge detection for textured and non-textured images.

(m)   Reconstruction of 3D primitives from a turn-table sequence (modified auto-calibration from projective transforms).

(n)   Smart Segmentation based on human perceptual cues

(o)   Blind Image Quality assessment.

(p)   Video Analytics; Video Informatics; Intelligent Eye and SIXTH SENSE INTELLIGENCE.

17. List of research publications:

A.   JOURNAL (Published/Accepted)

1.1). "Thresholding for Edge Extraction of Intensity Images"; Jayanta Mukherjee, S. Das and B. N. Chatterji; Publication of Indian Journal of Engineers, Annual Number 1992; pp 20-29.

1.2). "Cut-off Frequencies of Transmission Lines Consisting of Pair of Cylinders " ; B. N. Das, S. B. Chakraborty and S. Das ; IEEE Transactions on Microwave Theory and Techniques, Vol. 44, No: 11, Nov., 1996, pp. 2110-2112.

1.3). "3D Tool Wear Measurement and Visualization using Stereo Imaging"; Karthik A, S. Chandra, B. Ramamoorthy and S. Das; **International Journal of Machine Tools and Manufacture**, Vol. 37, No. 11, 1997, pp. 1573-1581.

1.4). "Evaluation of characteristic impedance of twin-wire transmission line insulated by multilayer dielectric " ; S. B. Chakraborty, B. N. Das, S. Das and R. Bhattacharjee ; International Journal of Electronics, Vol. 83, No. 5, pp. 615-622, 1997.

1.5). "Analysis of a pair of dielectric coated cylinders above a ground plane using conformal transformation " ; S. Das and B. N. Das ; IETE (India) Journal of Research, Vol. 44, N0. 3, May-June 1998, pp 99-103.

1.6). "Capacitance of Transmission Line of Parallel Cylinders with Variable Radial Width"; B. N. Das, S. Das and Debashis Parida; **IEEE Transactions on Electromagnetic Compability**, Vol. 40, No. 4, Nov. 1998, pp 325 - 330.

1.7). "Analysis of a pair of dielectric coated cylinders above a Dielectric Substrate"; B. N. Das and S. Das; IETE journal of Research; Vol. 46, No. 3, May-June 2000, pp 157-161.

1.8). "Capacitance matrix of a pair of Dielectric Coated Cylinders of unequal Diameters above a ground plane"; B. N. Das, Debashis Parida, S. Das and G. Panda"; International Journal of Electromagnetics; Vol. 21, No. 3, April 2001, pp 231-245.

1.9). "Error Analysis in Reconstruction of a Line in 3-D from Two arbitrary perspective Views"; R. Balasubramanian, Sukhendu Das and K. Swaminathan, **International Journal of Computer Mathematics**, Vol. 78, No. 2, Feb. 2001, pp 191-212.

1.10). "Quantization error in stereo imaging systems"; R. Balasubramanian, Sukhendu Das, S. Udayabaskaran and K. Swaminathan; **International Journal of Computer Mathematics**, Vol. 79, No: 6, July, 2002, pp 671-691.

1.11). "Reconstruction of quadratic curves in 3-D from two or more perspective views"; R. Balasubramanian, Sukhendu Das and K. Swaminathan; **Mathematical problems in Engineering**, Vol. 8, No. 2, 2002, pp 207-219.

1.12). "Simulation studies for the performance analysis of the reconstruction of a line in 3-D from two arbitrary perspective views using two plane intersection method", R. Balasubramanian, Sukhendu Das and K. Swaminathan, **International Journal of Computer Mathematics**, Vol. 80, No.5, 2003, pp. 559-571.

1.13). "Bestimmung der Objektform durch Bildanalyse der Oberfluentextur-Merkmalsgewinnung mittels M-Kanal Wavelet-Transformation"; Thomas Greiner and Sukhendu Das, **Journal of "Automatisierungstechnik", Oldenbourg Publishers (Germany)**: Vol. 54 (10), Oct., 2006, pp 475-485.

1.14). "System-on-Programmable-Chip Implementation for online Face Recognition", A. Pavan Kumar, V. Kamakoti, Sukhendu Das, **Pattern Recognition Letters (Elsevier; Impact Factor: 1.3)**, Volume 28, No. 3, pages: 342-349, February 2007.

1.15). "Indoor Vs. Outdoor Scene Classification using Probabilistic Neural Network", Lalit Gupta, Vinod Pathangay, Arpita Patra, A. Dyana and Sukhendu Das, **EURASIP Journal of Advances in Signal Processing (JASP Impact Factor: 0.885)**, Vol. 2007, pp 1-10.

1.16). "A method of shape recognition using group delay function", Sreyasee D.B., Sukhendu Das and Amitava Datta, International Journal of Imaging Science and Engineering (IJISE, GA, USA, ISSN:1934-9955,), Vol.1, No.3, pp. 90-95, July 2007.

1.17). "SnakeCut: An Integrated Approach Based on Active Contour and GrabCut for Automatic Foreground Object Segmentation"; Surya Prakash, R.

Abhilash and Sukhendu Das; Special Issue on Vision and Multimedia Processing, **in *Electronic Letters on Computer Vision and Image Analysis* (ELCVIA)**, Vol. 6, No. 3, December 2007, pp 13-29.

1.18). "Automatic Curvilinear Structure detection from Satellite Images using Multiresolution GMM", Mirnalinee Dhinesh, Sukhendu Das and Koshy Varghese, International Journal of Imaging Science and Engineering (IJISE, GA, USA, ISSN:1934-9955), Vol.2, No.1, pp. 154-157, January 2008.

1.19). "Enhancing Decision Combination of Face and Fingerprint by Exploitation of Individual Classifier Space: An approach to Multi-modal Biometry", Arpita Patra and Sukhendu Das, **Pattern Recognition (Elsevier Impact Factor: 2.55)**, Vol. 41, No. 7, pp. 2298-2308, July 2008.

1.20). "Integrating Region and Edge Information for Texture Segmentation using a modified Constraint Satisfaction Neural Network", Lalit Gupta, Utthara G.M. and Sukhendu Das, **Image and Vision Computing (Elsevier**; **Impact Factor: 1.47**), Vol.26, No.8, pp 1106-1117, August 2008**.**

1.21). "A Framework for Fusion of 3D Appearance and 2D Shape Cues for Generic Object Recognition", Manisha Kalra, Sunando Sengupta and Sukhendu Das, **Journal of Pattern Recognition Research (JPRR)**, Vol. 3, No. 1, September 2008, pp 54-70.

1.22). "Trajectory Representation using Gabor Features for Motion-Based Video Retrieval", A. Dyana and Sukhendu Das, **Pattern Recognition Letters (Elsevier; Impact Factor: 1.3)**, Vol. 30, No. 10, pp. 877-892, July 2009.

1.23). "Estimation of Orientation of a Textured Planar Surface using Projective Equations and Separable Analysis with M-Channel Wavelet Decomposition"; Thomas Greiner, Shivani G Rao and Sukhendu Das, **Pattern Recognition (Elsevier; Impact Factor: 2.55),** Vol. 43(1), pp 230-243, January 2010.

1.24). "Design of an improved framework for stratified 3-D reconstruction from a pair of images, with reduced ambiguity", Sunando Sengupta and Sukhendu Das; Accepted for publication in **International Journal of Computer Mathematics (Impact Factor: 0.478),** June 2009.

1.25). "A Survey of Decision Fusion and Feature Fusion Strategies for Pattern Classification", Utthara Gosa Mangai, Suranjana Samanta, Sukhendu Das and Pinaki Roy Chowdhury; **IETE Technical Review, Vol. 27, No. 4, July-August 2010, pp. 293-307.**

1.26). "An integrated multistage framework for automatic road extraction from high resolution satellite Imagery"; T. Mirnalinee, Sukhendu Das and Koshy Varghese; Accepted for publication in the **Journal of the Indian Society of Remote Sensing (Springer)**, March 2010.

1.27). "MST-CSS (Multi-spectro-temporal Curvature Scale Space), a novel spatio-temporal representation for content-based video retrieval"; A. Dyana and Sukhendu Das; **IEEE transactions on Circuits and Systems for Video Technology (Impact Factor: 2.6), Vol. 20, No. 8, August 2010, pp. 1080-1094.**

B.   CONFERENCES/WORKSHOPS/SYMPOSIUM (Published/Accepted)

2.1).   "Wire Framing of Range Images "; J. Mukherjee, S. Das, B. N. Chatterji et. al.; Proceedings of the INDO-US Workshop on Spectral Analysis in one or two Dimensions ; Nov. 27-29, 1989, New Delhi, INDIA.

2.2).   "A Recursive algorithm for modal Analysis of the Histogram of images " ; J. Mukherjee, S. Das and B. N. Chatterji ; Proceedings of the IEEE International Conference of Image Processing ; Sept. 1989, Singapore.

2.3).   "Analysis of difference pictures for detecting object motion " ; S. Das, J. Mukherjee and B. N. Chatterji ; Proceedings of the first International Conference on Automation, Robotics and Computer Vision, Singapore , 19-21 Sept. 1990, pp 866-870.

2.4).   "Detecting occlusion from feature correspondences of multiple moving rigid objects " ; S. Das, J. Mukherjee and B. N. Chatterji ; Proceedings of the second International Conference on Automation, Robotics and Computer Vision ; Singapore , 15 - 18 Sept. 1992.

2.5).   "Motion Analysis from of Dynamic Stereo Images " ; S. Das, J. Mukherjee and B. N. Chatterji ; Proceedings of the discussion meeting on Recent Advances in Signal Processing and Communications ; Jan., 18-20, 1993; Indian Institute of Science, Bangalore, India ; pp 53-58.

2.6).   "Parallel Implementation of a Robust Algorithm for tracking moving objects "; S. Das and B. N. Chatterji ; Proceedings of the International Workshop on Parallel Processing ; Dec. 26-31, 1994; Bangalore, India, pp 151-156.

2.7).   "Stereo Correspondence using Gabor Logons"; Babu Thomas, B. Yegnanarayana and S. Das;   IEEE Conference on Image Processing (ICIP'95); 23-26 Oct., 1995, Washington D.C., USA, pp 386-389.

2.8).   "Performance Analysis of a Dynamic Programming based Algorithm for matching lines in Stereo Images " ;   Anupam and S. Das ; International Conference on Automation (IC- AUTO'95), Dec. 12-16, 1995, Indore, India.

2.9).   "On a Fuzzy Neural Network Approach to Pattern Recognition " ; R. Karthikeyan and S. Das ; Indian Conference on Pattern Recognition, Image Processing and Computer Vision (ICPIC' 95) Dec. 13-15, 1995, IIT Kharagpur, India, pp 111.

2.10).   "Matching Noisy Bitmap Images based on Distance Transform " ; N. Jagadeesh Babu, M. Sanjay, B. Yegnanarayana and Sukhendu Das ; Proceedings of the International Symposium on Intelligent Robotic Systems ; Jan. 10-12, 1998, Bangalore, India, pp. 386-391.

2.11). "One-Dimensional Gabor Filtering for Texture Edge Detection"; B. Yegnanarayana, G. Pavan Kumar and Sukhendu Das, Indian Conference on Computer Vision, Graphics and Image Processing, 21-23 Dec., 1998, New Delhi, INDIA, pp 231-237.

2.12). "Robust Template Matching for Noisy Bitmap Images Invariant to Translation   and Rotation"; M. Sanjay, Sukhendu Das and   B. Yegnanarayana, Indian Conference on Computer Vision, Graphics and Image Processing, 21-23 Dec., 1998, New Delhi, INDIA, pp 82-88.

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18. Additional responsibilities - academic and extra-curricular:

i)   **Chairman, PRSG review committee** for the **Ministry of Communications and Information Technology (GOI) project** entitled "Robust Watermarking of Digital Images using Wavelet like Transforms for Image Security"; Univ. of Madras, Chennai, India, 2005-08.

ii)   **Chairman, PRSG review committee** for the **Ministry of Communications and Information Technology (GOI) project** entitled "An investigation on the impact of encoding schemes in Steganography and Watermarking algorithms"; Andhra University, Vishakapatnam, India, 2009-10.

iii)   Member, PRSG review committee for the **Ministry of Communications and Information Technology (GOI) project** entitled "Design of New Iris Recognition System for Personal Authentication with Orthogonal Polynomials Model" by Bharathidasan Institute of Technology, Anna University, Tiruchirappalli; India, 2009-11.

iv)   Member of the **GIES-IMINT project review board in ADE, DRDO, Bangalore**, 2004-2006.

v)   Member of the DRDO-RAC Recruitment and Assessment Committee, DRDO (Delhi), since 2006.

vi)   Department (CS&E) faculty representative in the Institute Board of Academic Courses (*BAC member, Deptt. Of CS&E, IIT Madras*), since 2005-2007.

vii)   Department (CS&E) Faculty representative in the IIT time-table committee from 2004-2007.

viii)   Department (CS&E) faculty representative in the Institute Board

of Training and Placement (BT&P *member, Deptt. Of CS&E, IIT Madras*), since 2008.

ix) Appointed as the *General Secretary of the Staff Club, IIT Madras*, 2004-2006; Also, served earlier as executive committee member and Sports secretary of Staff Club, IIT Madras.

x) NPTEL (MHRD program) video lecture series in "Computer Graphics" (available in Doordarshan – Ekalvya Channel and now on Youtube), completed in Sept. 2005; ***9th most viewed Video lecture on Youtube, 2010; most viewed (in 2009) among all courses in Computer Science and Engg. field***.

xi) NPTEI-Phase II - Discipline (course) Coordinator in Computer Science and Engg., IIT Madras, Chennai – 36, since 2009.

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Brief Biodata

Dr. Sukhendu Das was born in 1962, in Kharagpur, W.B., India. He is currently employed as a Professor in the Deptt. Of Computer Science and Engg., IIT Madras, Chennai, India. He completed his B.Tech degree from IIT Kharagpur in the Deptt. Of Electrical Engg. in 1985 and M. Tech Degree in the area of Computer Technology from IIT Delhi in 1987. He then obtained his Ph.D degree from IIT Kharagpur in 1993. His current areas of research interests are: Visual Perception, Computer Vision: Digital Image Processing and Pattern Recognition, Computer Graphics, Artificial Neural Networks, Computational Science and engineering and Soft Computing. Dr. Sukhendu Das has been a faculty of the Deptt. of CS&E, IIT Madras, INDIA since 1989. He has worked as a visiting scientist in the University of Applied Sciences, Pforzheim, Germany, for post-doctoral research work, from Dec. 2001 till May 2003; and as a visiting researcher/scientist in the Univ. of UWA, Perth, Australia, during June-Aug. 2006, and July-Sept. 2008. He has guided three (currently guiding three more) Ph. D students, 21 (currently guiding 4) M.S., 34 (currently guiding 1) M. Tech. and several B. Tech students. He had completed several international and national sponsored projects and consultancies, both as principle and co-investigators. Currently, he is involved in four (4) sponsored projects/consultancies in IIT Madras. He has published nearly 100 technical papers in international and national journals and conferences. He has reviewed several papers in international journals (IEEE, IET, Elsevier, Springer etc.) and chaired several sessions in conferences. He has received two best papers and a best design contest award.