BIO DATA

1. Name : **Dr. J. PRAKASH**

2. Address for communication : Professor and Head
   Dept. of Information Science & Engg.
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3. Educational Qualifications : **B.E (Computer Science)**
   October, 1989
   Mysore University

   M.S (IT)
   Feb – 1995, 91%, I-class with distinction
   Devi Ahilya Vishwa Vidyalaya
   University of Indore
   Institute of Computer sciecce, Electronics & Instrumentation.
   USIC Bhavan , DAVV, Thakshashila campus
   Khandwa Road , Indore 4520 01,
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   Ph.D
   Computer Science & Engg
   Dr.MGR Educational & Research Institute
   University, Chennai.
   Area of Research: Digital Image Processing
   Thesis Title : "A Hybrid Approach for Geometric Primitives Extraction"

4. Teaching & Research Experience : Worked as Lecturer in the Computer Science & Engg Dept., from 05-12-1989 to 24-05-1997 at A.I.T , Chikmagalur, Karnataka

   Worked as Research Assistant in computer Division , Oct-1994, Centre for Advanced Technology (CAT)
   Atomic Research Centre
   Indore 4520 13.
   Madhya Pradesh

Worked as Lecturer and Sr.Grade Lecturer
Dept. of IT, B.I.T , K.R Road, Bangalore from
26-05-1997 to 10-08-2006

Worked as Assistant Professor in the Dept of ISE
B.I.T , Since 11-08-2006 to 07-04-2010.

Working as Professor & HOD, Dept of ISE
B.I.T , Since 08-04-2010.

Total Teaching Experience **: 26 Years**

Worked as EC Member and State Committee Member ISTE, New Delhi and Karnataka Section, LIC Member VTU, BOE and BOS Member VTU, Evaluator, Moderator, Squad chief / member, Chief Superintendent and taken other works of VTU, Bangalore University, Kuvempu University and Mysore University.

5. List of Publications:

[1] J. Prakash, K. Rajesh, "Human Face Detection and Segmentation using Eigenvalues of Covariance matrix, Hough Transform and Raster Scan Algorithms", *International Journal of Computer, Information and System Sciences and Engineering",(IJCISSE),* Volume 2, No.2, PP.87-95.

[2] J. Prakash, K. Rajesh, "Elliptical Features Extraction using Eigenvalues of Covariance matrix, Hough Transform and Raster scan Algorithms", *International Journal of computer science and Engineering,(IJCSE)* Volume1, No.2, PP.97-102.

[3] J. Prakash, K. Rajesh, "Extracting Geometric Primitives: Combined Approach of Hough Transform, Eigenvalues and Raster can Algorithms", *International Journal of Systemics, Cybernetics and Informatics, (IJSCI- Jan-07),* PP. 48-55.

[4] J. Prakash, K. Rajesh, "A Novel Approach for Coin Identification using Eigenvalues of Covariance Matrix, Hough Transform and Raster scan Algorithms", *International Journal of Computer Science,* Volume 4-2, pp. 89-95.

[5] J. Prakash, K. Rajesh, "A Novel and Accurate Method for Circular Object Identification: Combined Approach of Hough Transform, Eigenvalues and Raster Scan Algorithms", *IEEE International conference on Signal and Image Processing, (IEEE-CSIP),* Volume 2, (Dec-2006), PP.815-820.

[6] J. Prakash, K. Rajesh," Linear Features Extraction using Combined Approach of Hough Transform, Eigenvalues and Raster scan Algorithms", *IEEE International conference on Intelligent Sensing and Information Processing (IEEE-ICISIP-2006),* 15th to 18th Dec-2006, IEEE-Bangalore, University of Melbourne, Australia, PP.65-70

[7] J. Prakash, K. Rajesh, "Role of Hough Transform in Image Feature Extraction and Analysis" *International Conference on Human Machine Interfaces, ICHMI-2004, IISc, Bangalore, MIT USA. (Poster Presentation)*.

[8] J. Prakash, M .B. Meenavathi and K. Rajesh, "A New Approach for Edge Extraction using Quadratic Volterra Filters", *Proceedings: National Conference on Vision, Graphics and Image Processing*, JNNCE, Shimoga, Karnataka, 2005, pp. 226-231.

[9] J. Prakash, M .B. Meenavathi and K. Rajesh, "Truncated Quadratic Volterra Filters Design for Image Enhancement and Restoration", *National Conference on Instrumentation, Control Systems Conference, MIT,* Manipal, Karnataka, 2004, pp.151–153 (Awarded Best Paper of the Conference).

[10] J. Prakash, Myna A.N , "A Novel Approach for Multi-focus Image Fusion using Fuzzy Logic and Wavelets*" International Journal of Emerging Trends and technology in Computer Science" (IJETTCS),* Volume 3, Issue 2, March-April 2014.

[11] J. Prakash, Hema Jagadish, "A New Approach for Denoising Remotely Sensed Images using DWT based Homomorphic Filtering Techniques" , *International Journal of Emerging Trends and technology in Computer Science" (IJETTCS),* Volume 3, Issue 3, May-June - 2014.

[12] J. Prakash, Hema Malini G.E, "A Novel Hybrid Approach Based on Fusion of PCA and LDA for Face Recognition", International Journal of Electrical, Electronics and Computer Systems (IJEECS), ISSN (Online): 2347-2820, Volume -3, Issue-1 2015.

[13] J. Prakash, Hema Jagadish, "A Novel Method for Homogeneous Region Based Image Segmentation Technique for Remotely Sensed Images, "*International Journal of Computer Science and Information Technologies(IJCSIT)",* Vol. 6 (6) , 2015, 5014-5021

[14] J. Prakash, Hema Jagadish, "Fusion of Coastal Images Using Curvelet Wavele Transform Tecqniques", International Journal of Scientific & Engineering Research, Volume 7, Issue 7, July-2016, ISSN 2229-5518, PP 301-309

[15] J. Prakash, Myna A.N , "Fusion of CT and MRI Images Using Fuzzy Logic and Discrete Wavelet Transform" *International Journal of Computer Science and Information Technologies, (IJCSIT),* Vol. 6 (5) , 2015, 4512-451

[16] J. Prakash, Hemamalini G.E, "A novel approach for CBIR using elliptical Hough transform" International Journal of Advances in Engineering & Technology, Aug., 2016. ©IJAET ISSN: 22311963

[17] J. Prakash, Hemamalini G.E, "Medical Image Analysis of Image Segmentation and Registration Techniques" International Journal of Engineering and Technology (IJET), Vol 8 No 5 Oct-Nov 2016

[18] J. Prakash, Leelavathi H P. *"Effective Speckle Noise Removal of SAR Image Based on Combination of Modified PCA and HMF with Enhancement"* International Journal of Engineering Trends and Technology (IJETT) 61.3 (2018), 171-177.

[19] J Prakash, Myna A N, "*Interval Type 2 Fuzzy Logic Based Multifocus Image Fusion*", International Journal of Computer Sciences and Engineering (IJCSE), Volume-6 , Issue-1 , Page no. 220-227, Jan-2018, E-ISSN: 2347-2693

[20] J Prakash, Myna A N, "*Texture based Multifocus Image Fusion using Interval Type 2 Fuzzy Logic*", International Journal of Computer Engineering and Intelligent Systems, Volume-9 , Issue-2 , Page no. 16-27, April 2018, ISSN 2222-1719 (Paper) ISSN 2222-2863 (Online).

[21] J Prakash, Myna A N, "*Medical Image Fusion using Interval Type 2 Fuzzy Logic*", International Journal of Applied Engineering Research, Volume 13, Number 14 , Page no. 11410-11416, July 2018, ISSN 0973-4562

[22] J Prakash, Hemamalini, G.E, "*Registration and Comparison of Facial Images in different matching Algorithm*" International Organisation of Scientific Research (IOSR), Issue 6, Vol. 11, pp. 01-07 Nov 2016

[23] J Prakash, Hemamalini, G.E *"An Application of Image Processing on Solar Images",* International Journal of emerging trends in Engineering and Development (IJETED), Issue 7, Vol. 6, pp. 119-130,Nov 2017.

[24] Hema Jagadish, J.Prakash, "*Adaptive Markov Random Field Model for Area Based Image Registration and Change Detection*", International Journal of Application or Innovation in Engineering & Management (IJAIEM*)*, ISSN 2319 – 4847, Volume 6, Issue 4, April 2017

[25] J.Prakash ,"A Novel Method for Denoising Remotely Sensed Hyper spectral Image Using Auto encoder Technique". International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 20 (2018) Pp. 14733-14740.

[26] J.Prakash , "A Novel Method for Remotely Sensed Hyper spectral Image Classification Based on Convolutional Neural Network", International Journal of Engineering & Technology, ISSN 2227-524X Vol 8, No.1 (2019).

[27] J.Prakash ,"Dimensionality Reduction Of Remotely Sensed Hyper spectral Image for Classification Using Autoencoder Technique". International Journal of Research in Engineering and Technology ISSN: 2319-1163,2019.

6. Subjects taught & Area of Interest : Digital Image Processing,
Digital Signal Processing – TMS320C5x,6x
8086 and Advanced Microprocessors,
Computer Graphics with OpenGL
Operating Systems
Distributed Operating system.
C,C++ & Data structure
Electronic Circuits

7. Projects undergone

Undergraduate level : Microcomputer Based Data Acquisition System
Guidance : Prof. M.S. Shivakumar.
Head**,** Computer Science & Engg. Dept.
P.E.S.C.E , Mandya

Postgraduate level : 2D-FFT & Analysis of Digital Images (MRI)
Guidance : Sri. A.K. Guptha and Mrs. Alpana Rajan
Computer Division , C.A.T
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Madhya Pradesh.

8. Membership : IAENG Hong Kong, LM-ISTE
National EC-Member, ISTE, New Delhi
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9. Personal Information

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