CURRICULUM VITAE

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PERSONAL PROFILE

Name	:	Dr. Sandeep V M
Father's Name	:	Vasudev Rao Mandrawadkar
Date of Birth	:	16th Dec. 1965
Address for correspondence	:	Prof. & Head, Dept. of CSE, Jayaprakash Narayan College of Engg., Mahabubnagar – 509 001.
Residential Address	:	Flat No. 3, Vandana Enclave, Block A, Venkateshwara Colony, Mahabubnagar – 509002.
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EDUCATIONAL PROFILE

S.No.	University	Degree	Year	Class
1.	Gulbarga University, Gulbarga	B.E. (ECE)	1988	Second
2.	Gulbarga University, Gulbarga	M.E. (CSE)	1999	Distinction
3.	Visveswarayya Technological University, Belgaum	Ph.D. Faculty of Electrical & Electronics Engineering Sciences	Oct. 2011	

EXPERIENCE PROFILE

S.No.	Designation	Organization	Date of joining
1.	Prof. & Head(CSE)	Jayaprakash Narayan College of Engineering, Mahabubnagar	17th Dec, 2012
2.	Prof. & Head(ECE)	Jayaprakash Narayan College of Engineering, Mahabubnagar	2nd July, 2007
3.	Asst. Prof.	KBN College of Engineering, Gulbarga	1st Jan., 2001
4.	Lecturer	KBN College of Engineering, Gulbarga	19th Aug., 1988

Ph.D. THESIS

Title: Effective level sets and shape detection: An Application to Natural Images
Description: Recognizing the natural objects from an image is one of the challenges in pattern recognition. The challenge can be addressed through the Image Processing tools. The research used the model-based tools called the level sets to segment out the required object from heterogeneous backgrounds. The techniques suggested by Chan-Vese are used for single object class and by Tai-Chan is implemented for multiple object class. The process of segmentation is optimized through fast and efficient distance mapping technique DSFT proposed by us. This makes one to map and remap the level set functional more frequently and hence the evolution speed is maintained high. The very fact that mapping technique speed is independent of no. of points on the evolving curve encourages for random initialization of level set functional making the segmentation process to complete in less than 10 iterations.

The segmented object is further recognized through its shape. The shape signatures were obtained from single property of ellipse and distance mapped function.

PROFESSIONAL SOCIETY MEMBERSHIP:

LMIST – Life Member Instrument Society of India (IISc., Bangalore)

RESEARCH ACTIVITIES

a) Publications – Appendix A
b) Projects Guided:
    a. More than 100 for UG level
    b. More than 30 for PG level
    Some of these are listed below:

- “Simultaneous structure and texture inpainting”
- “Face recognition using Laplacian faces”
- “Age detection based on wrinkle analysis”
- “Artifical Retina – A simulation”
- “Hardware Implementation of Non-Uniformly Sampled Delta Modulation”

Place: Mahabubnagar **(Dr. Sandeep V M)**

International Journals:

1. Sandeep V.M., M.Z.Lazarus, K.Srilakshmi, "Age Classification: Based On Wrinkle Analysis", IJRITCC, ISBN 2321-8169, 1(3), 119-124, 2013.
2. Sandeep V.M., , K.Srilakshmi, M.Z.Lazarus, " Face Recognition Using Laplacian Faces", IJRITCC, ISBN 2321-8169, 1(3), 114-118, 2013.
3. Sandeep V.M., V. Deepthi, "Simple tool for efficient image cryptography", IJERA, 2(5), 1308-1311, Sept. 2012.
4. Sandeep V.M., E. Madhuri, "Perceptual color image segmentation through K-means", IJERA, 2(5),1312-1314, Sept. 2012.
5. Sandeep V.M., V. Harichandana, "Efficient and robust shape signatures for object recognition", IJERA, 1315-1319, Sept. 2012.
6. Sandeep V.M, P.Ravinder Kumar, Vikram,"Analysis and Design of Multicarrier Modulation Protocols in Cognitive Radios".IJERT-Journal,Vol-1,Issue 5, July,2012.
7. Sandeep V.M , M. Narayana, Subhash Kulkarni ," Skelton distance Mapped Functional Features for Improved CBIR", ICGST-GVIP Journal, PP 47- 56, Vol-11, issue 3, June 2011
8. Sandeep V.M, M. Narayana, Subhash Kulkarni ," Skelton based Signatures for Content based Image Retrieval", Intl. Journal of Computer Applications (0975 – 8887), pp29-34, Vol 23 – No 7, June 2011
9. Sandeep V.M., Subhash S.K, Vinayadatt V.Kohir, "Level Set Issues for Efficient Image Segmentation", International Journal on Image and Data Fusion - IJIDF, Vol. 2, No. 1, March 2011, 75-92
10. Sandeep V.M., Subhash S.K, "Fast Elliptical Object Detection Based On Gradient Descriptors". International Journal Of Emerging Technologies and Applications in Engineering, Technology and Sciences, 33-41, Jul –Dec 2008.
11. Sandeep V.M., Subhash S.K, "Hierarchical Perceptual Segmentation using Arbitrary n-phase level sets". International Journal of Applied Engineering Research, ISSN 0973-4562, 3(11) : 1615 – 1626, 2008.
12. Sandeep V.M., Subhash Kulkarni, P. Ravinder Kumar, Archena, " Effect of sensing time on performance of OFDM based opportunistic Cognitive Radio", IJESE, ISSN:2319-6378,4(2), 12-16, 2015.

Conference Proceedings:

1. Sandeep V.M., Kohir V.V., Biradar M.C, "Feature Extraction from Engineering drawings in CADD format", Intl. Conf. On Manufacturing, 2002, Dhaka, Bangladesh.
2. Sandeep V.M., Subhash S.K, "An effective method for detecting elliptical objects" IEEE INDIA CONFERENCE , INDICON2004, IIT, Kharagpur, India, pp.187-190, 2004.
3. Sandeep V.M., Subhash S.K, "A fast approach for detection of elliptical objects", NVGIP05, Shimoga, Karnataka, India, pp. 288-291, 2005.
4. Sandeep V.M., Subhash S.K, "Edgeless active contours based on perceptually uniform color space for natural color images using Level sets." International conference on Cognition & Recognition, ICCR-05, 22, 23 Dec. 2005, Mysore, India, pp. 972-980, 2005.
5. Sandeep V.M., Jayalaxmi G, Subhash S.K, "An improvement in stopping force of level sets for image segmentation", International conference on Cognition & Recognition, ICCR-05, 22, 23 Dec. 2005, Mysore, India, pp. 202-207, 2005.
6. Sandeep V.M, Subhash S.K, "Natural histogram portioning based on invariant multi-phase level set". IEEEs ADCOM 2006, NITK, Surathkal, India, 314-317, 2006.
7. Sandeep V.M, Subhash S.K, " Efficient hierarchical approach for perceptual segmentation using multi-phase level sets", IEEEs ICSIP 2006, Hubli, India, pp. 692-697, 2006.
8. Sandeep V.M, Subhash S.K, "Curve invariant fast distance mapping technique for level sets", IEEEs ICSIP2006, Hubli, India, 777-780, 2006.
9. Sandeep V.M., Mallikarjun Biradar, Vishwanath Varkar, "Simulation of Artificial Retina", IEEEs ICSIP2006, Hubli, India, 781-784, 2006.
10. Sandeep V.M, Subhash S.K, "Effective distance mapping for level set based segmentation". International Conference on Cognition and Recognition, ICCR08, Mysore, India, 305-312, 2008.
11. Sudhakar. K, Sandeep V M, Subhash Kulkarni "Shape Based Copy Move Forgery Detection Using Level Set Approach", Proc. Fifth International Conference on Signal and Image Processing (ICSIP2014), B.I.T.M, India, pp 213-217, 2014.
12. Sudhakar. K, Sandeep V M, Subhash Kulkarni "Speeding-up SIFT based Copy Move Forgery Detection Using Level Set Approach", Proc. Int. Conf. Advances in Electronics, Computers & Communications (ICAECC 2014), Reva University, India,October 10-11, pp 173-178, 2014.

13. P. Ravinder Kumar, Sandeep V.M., Subhash Kulkarni, " A simulative study on effects of sensing parameters on Cognitive Radio's performance", Seventh International Conference on Advances in Communication, Network, and Computing – CNC 2016, Bengaluru, March 12, 2016.
14. Sandeep V.M., "Level Sets for Real-world Object Segmentation", Submitted to IConSIP 2016
15. K. Sudhakar, Sandeep V.M., Subhash Kulkarni, "Redundant SIFT features via level sets for fast copy move forgery detection", submitted to Submitted to IConSIP 2016

Training Courses, Teaching – Learning – Evaluation, Technology, Programmes, Faculty

Programme	Duration	Organized by	API Score
Summer School on Advances Communications	2 weeks	REC Bhalki	20
Summer School on VLSI	2 weeks	REC Bhalki	20
Workshop on Image Processing	1 week	BEC Bagalkot	10
	Sub-Total		50

Invited Lectures and Chairmanships at national or international conference / seminars etc

Sl. No	Title of Lecture / Academic Session	Title of Conference / Seminar	Organised By	Whether international	API Score
1	Digital Communication	Winter School on Advanced Communication	REC Bhalki	National	5
2	Chan-Vese Level set Implementation for Segmentation	3-Day Workshop on Mathematical Perspectives on Digital Image	GNDEC, Bidar	National	5
3	Introduction to Model-based Segmentation	3-Day Workshop on Mathematical Perspectives on Digital Image	GNDEC, Bidar	National	5
4	Image Processing & Its Applications	Staff Development Programme on Medical Cybernetics	PDACE Gulbarga	National	5
5	Intrinsic Approach & Image Segmentation (Level Sets & its Uses)	Workshop on Research level Issues & Trends in Model Based Image	BEC, Bellary	National	5

6	Distance Mapping & Uses/ 1 phase, 2 phase and randomized methods	Workshop on Research level Issues & Trends in Model Based Image	BEC, Bellary	National	5
7	Chaired a session	International Conference on Cognition and Recognition-2008	PES Mandya @Mysore	International	10
8	Organized a Workshop and handled 2 Lecture Sessions & 2 Lab Sessions	3-Day State Level Workshop on Basic Simulation: A Multi Scheme & Multi Platform Approach- *BSMSMPA*	JPNCE	National	10
9	Chaired a session	'SAVISHKAR UTSAV-2K12' For ECE	JPNEC	National	5
10	Chaired a session	'SAVISHKAR UTSAV-2K12' For CSE	JPNEC	National	5
11	LaTeX And Its Applications Sole Resource Person	One Day FDP on "LaTeX & Its Applications" for Faculty, PG & Research Scholars	TKR College Of Engineering & Technology	National	10