

CURRICULAM VITAE

Name : Dr. R Sanjeev Kunte

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Qualification : B.E (CS&E),M.Tech (CS&E)
Ph.D (Pattern Recognition & Image Processing)

Working experience : 15 years of teaching and 3 years of research experience
Currently working as Professor in CS&E Dept.
at J N N College of Engineering, Shimoga.

Area of Research: Image Processing, Pattern recognition,
Information Security

Associate Editor: International Journal of Machine Intelligence (BioInfo)

Reviewer: Optical Engineering (SPIE)
Pattern Recognition Letters (Elsevier)

Professional Membership: Fellow of IETE, Life member of ISTE



Faculty development programmes:

Short Term courses attended:

1. Two week short term course on “Induction Training for Teachers in Engineering Education” held at KREC, Surathkal during 14/8/2000 to 2/9/2000.
2. One week short term course on “Advanced Computer Graphics programming and GUI using QT library and Open GL on Linux platform” held at JNNCE, Shimoga during 5/4/2003 to 12/4/2003.
3. Two week short term course on “Software development using VB” held at JNNCE, Shimoga during 16/2/2004 to 27/2/2004
4. One week short term course on “Recent advances in Image processing” held at JNNCE, Shimoga during 1/2/2004 to 5/2/2004.
5. Two week short term course on “Embedded Controllers” held at JNNCE, Shimoga during 12/7/2004 to 24/7/2004.

6. One week short term course on “VLSI and Real time Embedded Systems” held at Dr. M G R Educational and Research Institute, Chennai during 22/11/04 to 27/11/04.

Workshop/Conferences attended:

1. Two day workshop on “Use of Kannada in Computers” held at MSRIT, Bangalore.
2. Two day workshop on “Pico Peta Simputer” held at East-West technologies, Bangalore during February 2004.

Research Publications:

Conferences

1. R Sanjeev Kunte, S.C. Desai, R D Sudhaker Samuel and R Srinivasa Rao Kunte. Neural Based Recognition of Machine Printed Kannada Text employing Wavelet feature. In *proceedings of International workshop on signal processing and applications*, pp 51-54, Australia, 2002.
2. R Sanjeev Kunte, R D Sudhaker Samuel and R Srinivasa Rao Kunte. Neural Network based OCR System for Kannada Printed Text employing Wavelet features. In *proceedings of International Conference on Artificial Intelligence and its applications in Engineering technology*, pp 184-189, Malaysia, 2004.
3. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Segmentation of Characters from Printed Kannada Documents, in the *Proceedings of International Conference on Human Machine Interfaces*, pp. 267-276, Bangalore, India, 20th – 23rd December 2004.
4. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Bilingual Script Identification using Gabor Features, in the *Proceedings of International Conference on Robotics, Vision and Image Processing*, pp. 773-776, Penang, Malaysia, 20th – 22nd July 2005.
5. R. Sanjeev Kunte and R.D. Sudhaker Samuel, On separation of Kannada and English Words from a Bilingual Document Employing Gabor Features and Radial Basis Function Neural Network, in the *Proceedings of International Conference on Cognition and Recognition*, pp. 640-644, Mysore, India, 22nd – 23rd December 2005.
6. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Neural network based systems for Optical Character Recognition, in the *Proceedings of National Conference on Emerging Trends in Physics, Electronics and Emerging Sciences*, pp. 229-232, Mysore, India, 25th – 26th September 2006.
7. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Script independent recognition of handwritten numerals, in the *Proceedings of International Conference on*

Visual Information Engineering (VIE2006), pp. 94-98, Bangalore, India, 26th – 28th September 2006.

8. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Fourier and Wavelet Shape Descriptors for Efficient Character Recognition, in the *Proceedings of International Conference on Signal and Image Processing*, pp. 147-150, Hubli, India, 7th – 9th December 2006.
9. R. Sanjeev Kunte and R.D. Sudhaker Samuel, A Two-stage Multi-network Approach for Classification of Large-set of Language Characters, in the *Proceedings of International Conference on Systemics, Cybernetics and Informatics*, pp. 642-647, Hyderabad, India, 3rd – 7th January 2007.
10. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Gabor Features for Recognition of Handwritten Kannada Numerals, in the *Proceedings of International Conference on Advances in Computer Vision and Information Technology*, pp. 1231-1236, Aurangabad, India, 28th - 30th November 2007.
11. R. Sanjeev Kunte and R.D. Sudhaker Samuel, An OCR system for printed Kannada text using Two-stage Multi-network classification approach employing Wavelet features, in the *Proceedings of International Conference on Computational Intelligence and Multimedia Applications*, pp. 349-353, Sivakasi, India, 13th – 15th December 2007.
12. R. Sanjeev Kunte and R.D. Sudhaker Samuel, An OCR system for printed Kannada text using Two-stage Multi-network classification approach employing Wavelet features, in the *Proceedings of International Conference on Computational Intelligence and Multimedia Applications*, pp. 349-353, Sivakasi, India, 13th – 15th December 2007.
13. S. Varun, Surendra Singh, R. Sanjeev Kunte, R.D. Sudhaker Samuel, Bindu Philip, A Road Traffic Signal Recognition System Based on Template Matching Employing Tree Classifier in the *Proceedings of International Conference on Computational Intelligence and Multimedia Applications*, pp. 360-365, Sivakasi, India, 13th – 15th December 2007.
14. R. Sanjeev Kunte and R.D. Sudhaker Samuel, A Bilingual Machine-Interface OCR for Printed Kannada and English Text Employing Wavelet Features, in *Proceedings of International Conference on Information Technology*, pp. 202-207, Rourkela, India, 17th – 20th December 2007.
15. R. Sanjeev Kunte, Bindu Philip and R.D. Sudhaker Samuel, A Novel Integrated OCR Document Access System for the Specially Enabled, in *Proceedings of International Conference on Software Technology & Engineering* pp. 201-205, Chennai, India, 24th – 26th July 2009.

16. R. Sanjeev Kunte and Subramanya Bhat, Real Time Wireless ECG Transmission in *Proceedings of National Conference on Image processing Pattern Recognition & Computer Vision*, Mandya, India, 24th – 25th August 2009.
17. R. Sanjeev Kunte and Subramanya Bhat, A mixed model based on Watershed and Active Contour algorithms for Brain Tumor Segmentation, in *Proceedings of International Conference on Advance in Recent Technologies in Communication & Computing*, Kerala, pp. 398-400, India ,15th – 16th September 2010.
18. R. Sanjeev Kunte and Manjunath Kamath K, Reversible Steganography – A survey, in *Proceedings of National Conference on Recent Innovations in Engineering and Technology* , Bidar 2014.
19. R. Sanjeev Kunte and Rohith M S, Selective video encryption, in *Proceedings of National conference on Recent Advances in Computer Science*, JSSATE, Bangalore, September 2014.
20. R. Sanjeev Kunte and Rohith M.S, A lightweight video encryption scheme based on Sattolo’s permutation technique in *Proceedings of International conference on Computer communication and networks*, March 2015, Coorg.
21. R. Sanjeev Kunte and Manjunath Kamath K, Secured video steganography using DCT in *Proceedings of International conference on Networks Information and Communications*, May 2015, Bangalore.
22. R. Sanjeev Kunte and Rohith M S, Performance Comparison of AES, Blowfish and Sattolo’s Techniques for Video Encryption in *Proceedings of International Conference on Emerging Trends in Engineering*, May 2016, Nitte, Karkala.
23. R. Sanjeev Kunte and Vidyaganga B, Reversible data hiding in video steganography using histogram sifting in *Proceedings of National Conference on Recent Advances in Information and Communication Engineering*, May 2016.

Journals

1. R. Sanjeev Kunte and R.D. Sudhaker Samuel, A Two-stage Character Segmentation Technique for Printed Kannada Text, in *International Journal on Graphics, Vision and Image Processing*, Vol. 6, pp 1-8, 2006.
2. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Wavelet Descriptors for Recognition of Basic Symbols in Printed Kannada Text, in *International Journal of Wavelets, Multiresolution and Information Processing*, Vol. 5, No. 2, pp 351- 367, March 2007.

3. R. Sanjeev Kunte and R.D. Sudhaker Samuel, A simple and efficient optical character recognition system for basic symbols in printed Kannada text, in *Journal of Sadhana*, Vol. 32, No. 5, pp. 521-533, October 2007.
4. R. Sanjeev Kunte and R.D. Sudhaker Samuel, Gabor Features for Universal Script Identification in Indian Multilingual Documents, in *International Journal on Information Processing*, Vol. 2, No.2, pp. 81-89, 2008.
5. Manjunath Kamath and R Sanjeev Kunte, Offline Handwritten Devanagiri Numerals Recognition using SVM and PCA, in *Journal of Intelligence Systems*, Vol. 3, No. 1, pp. 25-30, December 2013.
6. R. Sanjeev Kunte and Rohith M.S, A lightweight video encryption scheme based on Sattolo's permutation technique, in *Australian Journal of wireless technologies, mobility and security*, Vol. 2, No. 1, pp. 67-70, 2015.

Book Chapter

R. Sanjeev Kunte and R.D. Sudhaker Samuel, Recognition of printed Kannada text employing Wavelet features and Neural classifiers in *Digitizing the Legacy of Indian Languages*, ICFAI Publication, India, 2009.

Monograph

A course material on "Visual Basic and ASP" for B.Sc (IT), Karnataka State open university.

Other Information

- Program & Technical Committee member for several International Conferences
- Principal and Co-principal Investigator for UGC and ACITE funded research projects
- Served as member, Member, Board of Examination (BOE), VTU Belgaum for the period 2011-13.
- Resource person for many Short Term Training Program held at various Engineering colleges in Karnataka.