

FACULTY PROFILE

Name : Vilas H. Naik



Designation : Associate Professor
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Google Scholar ID : JsZuU2sAAAAJ

Qualification

Professional Experience

Teaching experience : 24

Industry experience :

Administrative Responsibilities : **Department Level :** 1. PG Course Coordinator
2. Member Board of Studies in Computer science and Engineering
Institute Level : 1. **Coordinator**
University Extension Center for PG Studies.

Teaching : 23

No. of Projects Guided

UG : 35

PG : 25

- Research Interest Area** : **1. Image and Video processing**
2. Multimedia Analytics
- No. of Research Scholars** : **02**
- Pursuing :
Awarded :
Patents : **Use Numbering for the list with text with justify-font 10**
- Research Grants** : **Use Numbering for the list with text with justify-font 10**
- Publications Books/Chapters** : **Use Numbering for the list with text with justify-font 10**
- Journals (with citations)** : **1. S. A. Angadi, Vilas Naik ,2012 “ Eigen Value Difference Based Technique For Shot Boundary Detection In Sports Videos” International Journal of Operations Systems and Human Resource Management (Vol.2 No.1-2 2012) ISSN: 2277-6095 pp 13-26.**
2. S. A. Angadi, Vilas Naik,2012 “A Shot Boundary Detection Technique for Sports Video Summarization Based On Local Color Moments In $YCbCr$ Color Space” accepted for publishing in International Journal of Multimedia applications of AIRCC.
3. S. A. Angadi, Vilas Naik, Ashwin kumar,2012, “Automatic activity segmentation from surveillance video using conventional shot boundary detection methods”International Journal Of Machine Intelligence ISSN: 0975-2927 & e-ISSN: 0975-9166, volume 4, issue 1, 2012, pp.-404.
4. Vilas Naik, Ganesh Rathod,2013, “An Algorithm For Retrieval Of Significant Events Near Goal Post From Soccer Videos Using Fuzzy Systems”, International Journal of Emerging Technology and Advanced Engineering Website: www.ijetae.com (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 3, Issue 3, March 2013).
5. Vilas Naik, Raghavendra Havin, 2013, “Entropy Features Trained Support Vector Machine Based Logo Detection Method For Replay Detection and Extraction From Sports Videos”, International Journal Of Graphics and Multimedia (IJGM) ISSN 0976 - 6448 (Print) ISSN 0976 -6456 (Online) Volume 4, Issue 1, January - April 2013, pp. 20-30.
6. Vilas Naik , Prasanna Patil , Vishwanath Chikaraddi “Action event retrieval from cricket video using audioenergy feature for event summarization” INTERNATIONAL JOURNAL OF COMPUTER ENGINEERING & TECHNOLOGY (IJCET) ISSN 0976 – 6367(Print) ISSN 0976 – 6375(Online)Volume 4, Issue 4, July-August (2013), pp. 267-274.
7. Vilas Naik , Vishwanath Chikaraddi , Prasanna Patil “Query Clip

Genre Recognition Using Tree Pruning technique For Video Retrieval” International Journal Of Computer Engineering & Technology (Ijcet) Issn 0976 – 6367(Print) Issn 0976 – 6375(Online) Volume 4, Issue 4, July-August (2013), pp 134-146.

8. Vilas Naik¹, Sagar Savalagi² “**Textual Query Based Sports Video Retrieval By Embedded Text Recognition**” International Journal Of Computer Engineering & Technology (Ijcet) Issn 0976 – 6367(Print) Issn 0976 – 6375(Online) Volume 4, Issue 4, July-August (2013) pp 234-247.
9. Vilas H. Naik, Prashant. Baluragi, “**Multimodal Feature Fusion for Cricket Video Summarization**”. International Journal of Research in Computer Science and Information Technology Volume 3 | Issue 1 | July 2014 | ISSN 2319 – 5010 pp26-29.
10. S. A. Angadi, Vilas Naik, 2014 **Shot boundary detection in videos using Graph Cut** Sets International Journal of Image Processing and Vision Sciences (IJIPVS) Volume. 2 Issue. 2 2014 Pp 17-25.
11. S. A. Angadi, Vilas Naik, 2015 S. A. Angadi, Vilas Naik, 2014 **A Graph Representation based Fuzzy C Means Approach to Video Summarization** International Journal of Signal Processing Systems Selected for publication in International journal of signal processing systems (IJSPS) Vol 4. No 4 pp 67-80.
12. S. A. Angadi, Vilas Naik, 2015 **Static Video Summarization through minimum cost path in a K- partite graph representation of the Video** in Journal of Information processing systems Vol 4 pp-345-358
13. S. A. Angadi, Vilas Naik, 2015 **Dynamic Summarization – Minimum edge weight matching based approach** in International journal of Graphics and Image processing systems, MECS publications Vol 5.
14. Vilas Naik, Shanmukhappa Angadi, 2019. "Event detection in surveillance videos: a review". in International Journal of Multimedia Tools and Applications. 1-39. 10.1007/s11042-021-11864-2.
15. Vilas Naik, Basavaraj Patil, 2020, "Abnormal Event Detection in Videos a graph theoretical Attempt " in International Journal of Image Processing and Vision Sciences (IJIPVS) Volume. 2 Issue. 2 2020 Pp 32-42.
16. Vilas Naik, Basavaraj Patil, 2021, "**Abnormal Event Detection in Videos a Deep learning proposal** " in International Journal of Image Processing and Vision Sciences (IJIPVS) Volume. 4 Issue. 2 2021 Pp 10-20.

Conferences

1. Vilas Naik, Jagannath Aghav,2001,"**A Fast path Solution for Mutual Exclusion Problem**" in proceedings of National Conference on Computing Architecture and Operating Systems at SGGS Nanded (MS)DEC 2001.
2. Vilas Naik, T. R. Sonatakke,2001,"**Controlled Preemptive Scheduling of Tasks in hard Real time systems**". In proceedings of National Conference on Systems computing and communication, at VJTI Mumbai.
3. Vilas Naik, Vinodakumar Sonar,2008,"**A Simulation of Positioning a Sensor in Ad hoc Network**" in Proceedings Of The International Conference On Advanced Computing and Communication Technologies For High Performance Applications 23-24 September 2008 at Centre For High Performance Computing, Federal Institute Of Science And Technology.
4. Basavaraj Anami, Vilas Naik, Sharada H. N.2010,"**Segmentation and Classification of Multiple Fruit Images**" in proceedings of International Conference on Computational Vision and Robotics ICCVR 2010 Bhuvaneshwar
5. S. A. Angadi, Vilas Naik ,2012 "**Eigen Value Difference Based Technique For Shot Boundary Detection In Sports Videos**" in proceedings of International conference on Computational Intelligence and Information Technology ICCIIT 2012 at Coimbatore.
6. S. A. Angadi, Vilas Naik ,2012"**A Shot Boundary Detection Technique Based On Local Color Moments In $YCbCr$ Color Space**" in proceedings of International conference On Signal Image and Multimedia processing (SIPM 2012) Chennai.
7. S. A. Angadi, Vilas Naik,2012 "**Shot boundary detection and Key frame Extraction for sports video summarization based on Spectral Entropy and Mutual Information**" in proceeding Fourth International Conference on signal and Image processing ICSIP 2012 Coimbatore.
8. Vilas Naik ,Vinod Nayakawadi, 2012, "**A Novel Key Frame Extraction Algorithm Based on Entropy Difference Measure and Adaptive Thresholding for Video Summarization**" in proceedings of International conference on Emerging Trends in Information Technology (ICETIT 2012) at Visvesvaraya Technological University, Belgaum 5-6 October 2012.
9. Vilas Naik, Pradeep K.,2012,"**Significant Event Detection in Sports Video Using Audio Cues**" in proceedings of International conference on Emerging Trends in Information Technology (ICETIT 2012) at Visvesvaraya Technological University, Belgaum 5-6 October 2012
10. Vilas Naik, Ganesh Rathod,2012,"**An Algorithm for Retrieval of Significant Events near to Goal Post from Soccer Video Using Fuzzy Systems**" in proceedings of International conference on Emerging Trends in Information Technology (ICETIT 2012) at Visvesvaraya Technological University, Belgaum 5-6 October 2012.
11. Vilas H. Naik, Vaanita Bhimappa Doddamani Score Point Event Extraction From Tennis Video Using Embedded Text Detection Proceedings Of 11th Irf International Conference, 15th June-2014, Pune, India, Isbn: 978-93-84209-27-8.
12. S. A. Angadi, Vilas Naik,2014 "**Entropy based Fuzzy C Means Clustering and Key frame extraction for Sports Video Summarization**" 2014 Fifth International Conference on Signals

and Image Processing. IEEE DOI 10.1109/ICVIP.2014.49 at BNMIT Bangalore 20-22 Jan 2014.

13. S. A. Angadi, Vilas Naik, 2015 Static Video Summarization - A Graph Matching Approach, in proceedings of *IEEE International Conference on Computer Graphics, Vision and Information Security (IEEE CGVIS 015)* is being organized by KIIT University Bhubaneswar.

Invited Talks

:

1. A Session on **Video Analytics** in AICTE Sponsored STTP on **Research Trends in Computer science and Engineering** organised by Computer science and Information science Departments of SDM CET Dharwad. **December 2020**
2. A Session on **Video Processing** in FDP on **Research Trends in Imageprocessing and Pattern Recognition** organized by School of Computing REVA University Bengaluru **March 2019**.
3. **A Session Address at nVIDIA GTC GPU Technology conference 19-24 sept. 2022,**

Events Organized

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**Conferences/ Symposiums/
Workshops/ Training
Programs Attended**

: *National Conferences*

1. National conference on “Emerging trends and advances in information technology” at AIT Chikmangaluru 24 april 2018

2. National conference on “Multimedia technology and communication systems NCMTSA” 2017 at Malnad Engineering Hasan 17 and 18 March 2017

3. 2nd National conference on “Emerging trends and advances in information technology” at AIT Chikmangaluru 7 and 8 April 2018

4. 1st National conference on “Emerging trends and advances in information technology” at AIT Chikmangaluru 29 and 30 anuary 2016

5. National workshop on research avenues in computational forensic at Gokte Institutes of Technology Belagavi 10th march 2012

6. National conference on “Futuristic computer applications sponsored by university of Pune at institute of information technology pune 22 to 24 December 2009.

International Conferences

1. International symposium on green technologies for sustainable development at BEC Bagalkot 24 and 25 February 2017

2. IEEE International conference on graphics and vision and information technology at KIIT university bhubaneswar 2 and 3 November 2015

3. International conference on “Computational vision and robotics ICCVR 2010” on 21 and 22 August 2010 at KIT Bhubaneswar.

4. International conference on “Applied Science ,engineering and

Techniques” at Shei Sairam Collage of Enginnering and technology Anikal , Bengaluru 6 and 7 June 2016.

5.NCETAIT 2017

6.5th International conference on “signal and image processing” at BNMIT Bengaluru 8 to 10 January 2014.

7.International conference on “Advanced computing on ICADC 2012” at MSRIT Bengaluru to 6 July 2012.

8.4th International conference on “Signal ICSIP 2012” at Dr. N.G.P Institute of Technology Coimbutre 13 to 15 December 2012.

9.International conference on “Advanced computer science and information tecqnology” at Chennai 14 and 15 July 2012.

10. International conference on “Computational Intelligence and information tecqnology”at INFO institute of technology Coimbutre 2 and 3 March 2012.

Awards and Honors :