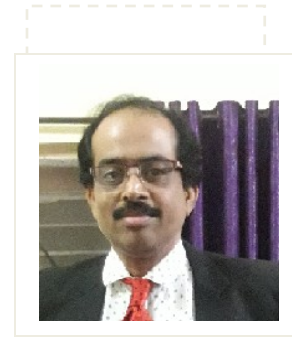


Dr. Vilas Naik

C/o S.R. Hiremath
15th Cross Vidyagiri
Bagalkot 587103 (Karnataka)
E-mail: vilasnaik_h@rediffmail.com
Phone: 09448185847



Profile

Belief and objective in Profession : Innovations in teaching learning methods, To be in technical teaching with continuous Study and updated knowledge .

Personal Details:

Full Name : **Vilas Hanamantrao Naik**
Date of Birth : **26 July 1973**
Educational Qualification : **ME (Specialization in Computer Technology) Ph.D**
In Technical Teaching Profession: **from August 1995.**
Current Designation : **Associate Professor**
Department of Computer science and Engineering
Basaveshwar Engineering College, Bagalkot (Karnataka).

Academic Details

Qualification/ Degree	Board/University/College	Percentage of Marks obtained	Specialization
S.S.L.C	Karnataka Secondary Board Bangalore	77.00	
P.U.C	Karnataka Pre University Board, Bangalore	70.00	
BE(E&C)	BLDE Association's College of Engineering College Bijapur (Karnataka) Karnataka University,Dharwar	63.00(Aggregate)	Electronics &Communication Engineering
Master of Engg	S G G S College of Engg&Tech Nanded Shri Ramanand Teerth University,Nanded	66.00(Aggregate)	Computer Technology
Ph.D	Viveswaraya Technological University Belagavi		Video processing

Subjects studied during Post Graduation

1. Digital Signal Processing	6.Digital image Processing
2.Detection &Estimation Theory	7.Advanced Computer Architecture
3.Operating System	8.Advanced Computer Graphics
4.Compueter Networks	9.Neural networks and Fuzzy logic
5.Microprocessor Based System Design	10.Pattern Recognition

Dissertation during Post Graduation

A Fast path Solution for Mutual Exclusion Problem

Course Work Subjects for PhD

Grades Obtained

- | | | |
|----|--------------------------------|---|
| 1. | Data Structures and Algorithms | C |
| 2. | Pattern Recognition | A |
| 3. | Image and Video processing | B |
| 4. | Speech and Audio processing | B |

Experience Details

<i>S.No</i>	<i>Position</i>	<i>Period</i>	<i>Institute</i>
	Associate Professor	2015	Basaveshwar Engineering College ,Bagalkot(Karnataka)
	Assistant Professor	01 Sept 2006 (Aided)	Basaveshwar Engineering College ,Bagalkot(Karnataka)
2	Senior Lecture	From 10 June 2004 to 01 Sept 2006	Basaveshwar Engineering College ,Bagalkot(Karnataka)
3	Senior Lecture	From 7Aug95 to 7 June 2004	Mahatma Basaveshwar Engineering College Ambajogai(Maharashtra)

Subjects Taught

<i>S.No</i>	<i>Subjects</i>	<i>Level</i>
1	Electronic Devices and Circuits	UG
2	Principles of Communication Engineering	UG
3	Telecommunication Technology	UG
4	Information Technology	UG
5	Linear Integrated Circuits	UG
6	Computer Graphics	UG
7	Data Communication	UG
8	Network Management	UG
9	Computer Profession and Ethics	UG
10	Distributed Systems	PG
11	Advanced Computer Architecture	PG
12	Computer Networks	PG
13	Embedded Systems	PG
14	Multimedia computing	PG
15	Multimedia Communication	PG
16	Computer Graphics	PG
17	Mobile communication and Computing	PG
18	Operating systems	PG
19	High Performance Computing	PG

Memberships

ISTE Life Membership (LM 29353

Reviewer for Journals and Conferences in the areas of Image and Videoprocessing, Pattern recognition

Guidance for UG Projects

20 Electronics and Communication Engineering Projects.

PG (M.Tech(CSE)) Projects Guided

	<i>Title of the Project</i>
1	A Frame work of Platform Independent System calls
2	A Cryptic Framework
3	Implementation of DSP Processor function with VHDL/VHDL.
4	Application of Encryption algorithms for Image Encryption.
5	JTAPI based Telephonic E Mail Reader.
6	Positioning of Sensor in Sensor Adhoc Network.
7	Text region detection Video
8	Face Detection from Video
9	Support Vector Machine (SVM) based Method for Replay Detection and Extraction from Sports Videos
10	Singular Value Decomposition (SVD) Based Video Summarization
11	Key frame based Video retrieval system.

12	Prasanna Patil	2BA11SCS07	Video/Event Retrieval Based on Audio Cues
13	Vishwanath S Chikaraddi	2BA11SCS16	Video/Event Retrieval Based on Visual Features
14	Sagar S. Savalagi	2BA11SCS18	Embedded Text Based Video/Event Retrieval
15	Prashant Baluragi	2BA12SCS09	Multimodal Feature Fusion for Sports/Other Video/Event Summarization
16	Soumya B. Chari	2BA12SCS14	Multimodal Feature Fusion Strategy for Query Based Video/Event Retrieval
17	Gururaj B. Malasiddanavar	2BA13SCS05	Multimodal Feature Based Event Identification and Summarization of Tennis Videos
18	Jagadevi	2BA13SCS07	Multimodal Video Indexing for Query Based

	Puranikmath		Retrieval
19	Mahantesh S. Devoor	2BA13SCS11	Video Indexing and Retrieval Using XML/XQuery
20	Mallikarjun Banasode	2BA14SCS06	Cloud Based Multimedia Application For Handheld Devices
21	Vandana Athani	2BA15SCS13	Event Detection in Soccer Video
22	Prateek P Huilgol	2BA16SCS06	Vehicle Driver Drowsiness Detection Using Video Processing Techniques

Workshops/Faculty Development Programmes Attended

Title	Host institute	No. of days
State Level Convention of ISTE (Maharashtra & Goa Section)	Jawaharlal Nehru Engineering College Aurangabad	2-days
One day Workshop on Re-engineering of Engineering Education System	S G G S College of Engg&Tech,Nanded	1-day
Java programming with JDK1.2	NIIT Nanded	2-Months
Instructional Device and Delivery	B. E. C. Bagalkot	6-days
Mathematical Modeling for Digital Image Processing	B. E. C. Bagalkot	6-days
Vision R&D	B. E. C. Bagalkot	6-days
Applied Mathematics	B. E. C. Bagalkot	6-days
C# and .NET	B. E. C. Bagalkot	6-days
Structured Software testing and Test automation	QSIT Bagalore	10-days
One Day Workshop on Student Counseling	B. E. C. Bagalkot	1-days
Three Days workshop on Digital Signal Processors Toolkits	B. E. C. Bagalkot	3-days
Training Programme on Signal and Image Processing	B. E. C. Bagalkot	6-Days
Work shop on Multi Core Architecture and Parallel Programming	R.V.C Bangalore	3 Days
Workshop Service Oriented Architecture	SIT Tumkur	1 Day
Linux Administration	ESCI Hydrabad	1 Week
Workshop on Software Development Tools and Testing	Accenture's Bangalore	2 Days
IUCEE Work Shop on Computer Networks	Infosys, Mysore	1 Week
Work shop on Multicore Architectures	IISc, Bangalore	3 Days

1. Curriculum Development workshop on **Microprocessor and Multi core Architecture** July 16-July 18 2008 IISC centre for electronic design and technology.
2. One week QSIT_PCS **Structure Software Testing and Test Automation** August 2006.
3. Short term training program on **Vision R and D** organized under TEQIP-I 20-26 March 2006 BEC Bagalkot

- 4.. One day **Workshop on Counseling Techniques** 5 August 2006.
5. Faculty development program on **C#.NET** organized under TEQIP-I at BEC Bagalkot 1 to 6 June 2006.
6. Faculty development program on **Signal Processing and its applications** organized under TEQIP-I at BEC Bagalkot 9 to 11 October 2006..
7. Faculty development program on **Digital Signal Process and applications** under TEQIP 25 to 30 September 2006 at BEC Bagalkot
8. Faculty development program / special lecture series on **Mathematical Modeling for Digital Image Processing** at BEC Bagalkot 9 to 14 January 2006.
9. Faculty development program at IIT Roorkee on **Vision Graphics and Image processing** 6 to 10 July 2007.
10. Continuing Education and quality improvement on **Open Society Problems And Computing Solutions Python** at IIT Mumbai
11. National workshop on **Massively Parallel Computing** at BVBB College of engineering and technology Hubli 21 to 23 November 2013
12. Faculty development program on **Computing Approaches To Image Processing And Pattern Recognition** at BEC Bagalkot. 20 to 24 March 2010.
13. Three days Faculty Development program on **Recent Advances In Wireless Networks** at BEC Bagalkot 16 to 18 may 2013
14. Faculty development program on **Soft And Evolutionary Computing Techniques and Its Applications** at BEC Bagalkot 30 may to 1 June 2013.
15. Research intensive Faculty development program on **Mathematical Modeling And Its Applications To Computing Science**
16. Faculty development program on design ,**Modeling and Simulation Of MEMS Devices** at BEC Bagalkot 10 to 12 July 2018
17. ISTE-PTU Faculty development **Program On Wavelets and Applications** at BLDE Collage of engineering and technology to 13 June 2014
18. Two days workshop on **Effective Leadership** for excellence by international academy for competence enhancement Bengaluru 6 and 7 February 2014
19. Faculty **Initiative Program From Intel India Academic Forum 2013**. 18 and 19 September 2013
20. **Intel Tanning Program On Multicore Programming** 27 to 29 January 2010.
21. Forum **Nokia Qt For Mobile Application Development** a training program at Nokia India Ltd Bengaluru 9 and 10 February 2011.
22. **Management Capacity Enhancement** at IIM bengaluru 23 to 25 January 2017.
23. Faculty Development program on **Machine Learning** at IIIT Dharwar 23-27 July 2018

International Conferences Attended

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 Sri Sairam College of Engineering 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 Coimbatore 13 to 15 December 2012.
9. International conference on “Advanced computer science and information technology” at Chennai 14 and 15 July 2012.
10. International conference on “Computational Intelligence and information technology” at INFO institute of technology Coimbatore 2 and 3 March 2012

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 January 2016
5. National workshop on research avenues in computational forensics 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.

Worked as Resource Person for Workshops/Training Programmes(STTP)

- | Workshops/Training on | Conducted at |
|---|--|
| 1. Was Trainer for Non technical university teachers to give awareness of INTERNET | In May 2001
At S.R.T College for Arts and Science, Ambajogai (University of Aurangabad) |
| 2. Resource Person for two days Workshop on New Syllabus of Electronics and Communication | Conducted at MBES college of Engineering Ambajogai |

	Engineering for Marathawada University	
3	One Week Workshop on Web Designing under TEQIP of World Bank	Dept of ECE Basaveshwar Engineering College, Bagalkot
4	Real time operating systems	Dept of CSE Basaveshwar Engineering College, Bagalkot
5.	Embedded Systems and Real Time Systems	Dept of ECE Basaveshwar Engineering College, Bagalkot
6.	Workshop on Software Testing for Students of Electrical Sciences	Dept of ECE & CSIT Basaveshwar Engineering College, Bagalkot
7	Lecture series on RTOS for Final Year E&C Students	Dept of ECE Basaveshwar Engineering College, Bagalkot
8	Resource person for Workshop on Soft computing approaches to Image processing	Dept of CSE Basaveshwar Engineering College, Bagalkot
9	Resource person for Workshop on Network Programming	Dept of CSE Syhadri Engineering College, Mangalore
10	Resource person for FDP on Soft and evolutionary computing	Department of ECE, Basaveshwar Engineering College, Bagalkot
11.	Delivered a session on ' Big data and High Performance Computing in FDP on Big data	Department of ISE , Basaveshwar Engineering College, Bagalkot
12	Delivered Lecture on Matlab and Multimedia Computing	Department of Computer science and Engineering Centre for PG studies VTU BELagavi
13	Resource person for Workshop on Network Programming	Dept of CSE Syhadri Engineering College, Mangalore.
14	Resource person for Workshop on Network Programming	Dept of CSE Global Engineering College, Bangalore.

Publications

- [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

- [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 "**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.*
- [7] 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.
- [8] 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.
- [9] 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.
- [10] 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.
- [11] 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.
- [12] 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.
- [13] 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.
- [14] 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).
- [15] 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.

[16] 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

[17] 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

[18] **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

[19] 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.

[20] 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

[21] 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/ICSIP.2014.49 at BNMIT Bangalore 20-22 Jan 2014

[22] 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.

[23] 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 (IJSPPS) Vol 4. No 4 pp 67-80.

[24] 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 Bhuvaneswar*.

[25] 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

[26] 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

Other Responsibilities Executed at College and University Levels

<i>S.No</i>	<i>Responsibilities</i>	<i>Period</i>	<i>For Institution/University</i>
<i>1</i>	<i>Regular Examiner for Practical /Theory Examination for Electronics and Communications Engineering</i>	<i>June 1998 to June 2004</i>	<i>University of Aurangabad</i>
<i>2</i>	<i>Part of Syllabus framing Committee under BOS</i>	<i>During 2002-2005 Syllabus</i>	<i>University of Aurangabad</i>

		<i>updatation</i>	
3	<i>Was Trainer for Non technical university teachers to give awareness of INTERNET</i>	<i>In May 2001</i>	<i>At S.R.T College for Arts and Science,Ambajogai (University of Aurangabad)</i>
4	<i>Examiner for theory Examinations in Electronics and Computer Science Engineering</i>	<i>In Year 2003 Examination</i>	<i>University of Mumbai</i>
5	<i>Coordinator for Modernization of Systems Laboratory</i>	<i>In 2005</i>	<i>Basaveshwar Engineering Bagalkot (Karnataka)</i>
6	<i>Looking after All the activities of PG Students</i>	<i>From July 2004</i>	<i>Basaveshwar Engineering Bagalkot (Karnataka)</i>
7	<i>Coordinator PG VTU extension centre</i>	<i>From June2006</i>	<i>Basaveshwar Engineering Bagalkot (Karnataka)</i>
8	<i>Member of Board of Examinations for CSE Dept under Autonomy System of BEC.</i>	<i>From 2007 onwards</i>	
9	<i>Member Board of studies for CSE Dept under Autonomy System of BEC.</i>	<i>From 2007 onwards</i>	
10	<i>Established Vision and Multimedia Computing Laboratory Under TEQIP scheme</i>	<i>In 2013</i>	

Administrative Experience

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.

2. Coordinator Central Computing Facility

Design of New Courses & Curricula

Course Name	Level of the course	Year of Introduction
Advanced Computer architecture	PG	2008
Wireless Communication	PG	2009
Pattern Recognition	PG	2009
High Performance computing and Programming	PG	2012
Mobile Computing	UG	2012
Mathematical Foundation of computer science	PG	2012
Effective Teaching Learning Practices	PG	2013

