


Faculty Profile

Name of Faculty	Dr. Sahana D Gowda	
Department	Computer Science & Engineering	
Qualification	M.E., Ph.D	
Designation	Professor & Head	
Area of specialization	Document Image Processing, Pattern Recognition, Data Mining, Video Analytics	
Date of Joining BNMIT	2/11/2009	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
Mobile Number	9886008626	
e-mail	sahanadgowda@bnmit.in, sahanagowdad@gmail.com	
No. of years of Experience	Teaching: 18.7 Years Industry: 1 year	

Academic Qualifications:

Degree	Institute/ University	Month and Year of Passing	% of marks obtained
Ph.D	University of Mysore, Mysore, India	2009	Awarded
M.E (CSE)	Bangalore University, Bangalore, India	2004	74.25
B.E (CSE)	Kuvempu University	1999	76.83

Working Experience Details:

Sl. No.	Designation	Institute/Company	Duration
1	Professor and Head	B N M Institute of Technology	July 2015 - Till date
2	Professor	B N M Institute of Technology	Nov 2009 - June 2015
3	Lecturer	Bangalore Institute of Technology	May 2001 - Oct 2009
4	Software Programmer	Red Wood Communications	May 2000 - May 2001
5	Lecturer	Vidhya Vikas Institute of Technology	Oct 1999 - Feb 2000

Subject taught

Logic Design, Data Structure, Computer organization, Microprocessors, Advanced computer architecture, Cloud Computing, Operational Research, Operating Systems, Digital Image Processing, Computer System Performance Analysis

Research Supervision:

Recognized as research supervisor, Research center, Department of Computer Science & Engineering, BNM Institute of Technology, Bangalore

Sl. No.	Name of the student	Ph.D	University	Year of completion	Title of Research Topic
1	Dr. Surabhi Narayan	Ph.D.	VTU, Belgaum	2017	Finger Print Generation for Document Images
2	Dr. Bhargavi M S	Ph.D.	VTU, Belgaum	2018	Anomaly Detection in Moving Objects Through Spatio-Temporal Pattern Mining
3	Smt. Kavita V Horadi	Ph.D.	VTU, Belgaum	Pursuing	Equivalence Detection amongst Compressed Document Images
4	Smt. Priyanaka S	Ph.D.	VTU, Belgaum	Registered	Machine Learning Approaches for Crop Yield Estimation
5	Smt. Jebah Jayakumar	Ph.D.	VTU, Belgaum	Registered	Drone Surveillance System for Activity Detection

Research Projects:

Completed

Title: Code Generation for Document Images based on Handwritten Components

Funding Agency: VTU, Belgaum, Karnataka, INDIA

Amount: 9.92 Lakhs

Duration: 03 years (2011 – 2014)

Completed

Title: Video Analytics Development System for the development of efficient algorithms for surveillance or video analytics

Funding Agency: DST, IISc, Bengaluru, Karnataka, INDIA

Amount: Video Analytics Development System with three still cameras and PTZ camera

Duration: 03 years (2014 – 2017)

VTU-VGST Funded for conduction of Faculty Development Program:

Title: Cognitive Machine Intelligence and Data Mining

Funding Agency: VTU-VGST

Amount: Rs. 1, 94,500/-

Duration: 2012

Academic Positions and other Responsibilities (University Level):

1. **Member**, Editorial Board Member, VTU News Letter, VTU, Belagavi
2. **Member**, LIC Committee Member, VTU, Belagavi
3. **Member**, BOE Member, VTU, Belagavi

4. **Member**, BOS Member, Malnad College of Engineering, Hassan
5. **Member**, BOS Member, Siddaganga Institute of Technology, Tumakur (Nominee of Visvesvaraya Technological University, Belagavi)

Academic Positions and other Responsibilities (Institute Level):

1. Member, Convener, Antiragging Committee, BNMIT (2017-18)

Awards/ Achievements/Memberships:

- Letter of Appreciation , “Academic Performance” – BNMIT for the year 2017-18
- Letter of Appreciation , “Academic Performance” – BNMIT for the year 2016-17
- Letter of Appreciation , “Academic Performance” – BNMIT for the year 2015-16
- Letter of Appreciation , “Academic Performance” – BNMIT for the year 2014-15

Professional Memberships:

- Life time member of International Society for Technology in Education (ISTE)
- Member of Computer Society of India (CSI).

Workshops /Seminars Organized:

1. **Program Chair, International Conference on Signal and Image Processing (ICSIP-2014)** at B N M Institute of Technology, Bangalore during 8th-10th Jan 2014. Conference Proceedings has been published by IEEE through CPS.

Research Publications:

I. In National & International Journals:

1. Sahana.D.Gowda, P.Nagabhushan, Chew Lim Tan, OCR-Less Procedure for Equivalence between Two Document Images Through Spatio-Entropy Quantifier, International Journal of Computing and Mathematical Applications, Vol 2. No1-2, January –December 2008.
2. Sahana.D.Gowda, P.Nagabhushan, Equivalence between Two Document Images through Iterative Histo Analysis of The Conventional Entropy Values, International Journal of Systemic, Cybernetics And Informatics, pp 23-33, October-2009.
3. P.Nagabhushan, Sahana D.Gowda, Spotting A Target Advertisement in Source Document Image, Journal of Computer Science, Volume -6 Sept-Oct 2010.
4. Sahana D Gowda, Bhargavi M S, “A novel validity index with dynamic cut-off for determining true clusters” published in Journal Pattern Recognition, Volume 48 Issue 11, Pages 3673-3687, Elsevier Science Inc. New York, USA, November 2015
5. Sahana D Gowda, Surabhi Narayan, “Fingerprints for Imposed Layers in Document Images Based on Huffman Code and Logical Layout Analysis”, Journal of Pattern Recognition and Intelligent Systems, Vol 4, Issue 1, Pages 14-26, Malaysia, August 2016.
6. Sahana D. Gowda , Surabhi Narayan, “Document Image Registration for Imposed Layer Extraction” ICTACT Journal on Image and Video Processing, ISSN: 0976-9102(Online), DOI:10.21917/ijivp.2017.0205, Volume: 07, Issue:03, February 2017.

7. Sahana D Gowda, Hemanth Chandra, “ Secure and Efficient Client and Server Side Data Deduplication to Reduce Storage in Remote cloud Computing Systems”, International e-Journal for Technology and Research-2017, IDL-International Digital Library of Technology & Research, Volume 1, Issue 5, May 2017.
8. Sahana D. Gowda, Chandrakala H T, Thippeswamy, “Enhancement of Degraded Document Images using Retinex and Morphological Operations”, International Journal of Computer Science and Information Security (IJCSIS), Vol. 16, No. 4 ISSN 1947-5500, Pittsburgh, PA, USA, April 2018.

II. In National and International Conference:

1. Sahana.D.Gowda, P.Nagabhushan, “Page Segmentation and Rule Based Identification Method for Technical Journal Pages”, International Conference on Cognition and Recognition (ICCR-05), PES College of Engineering, Mandya 22nd -23rd Dec 2005.
2. Sahana.D.Gowda, P.Nagabhushan, “Unconstrained Tight Structure Extraction using Vornoi Tessellation on Document Images”, MLMTA’06, Las’ Vegas, Navada, USA (IC), Jun-2006.
3. Sahana.D.Gowda, P.Nagabhushan, “Extraction of Structural Attributes using Improved Area Vornoi Diagrams on Document Images” , National Conference on ImagePprocessing and Information System, Mar-2007
4. Sahana.D.Gowda, P.Nagabhushan, “Equivalence Between Two Document Images In Terms of Geometry and Entropy”, International Conference on Advances in Computer Vision and Information Technology (ACVIT) Aurangabad India, Nov-2007.
5. Sahana.D.Gowda, P.Nagabhushan, “Equivalence between Two Layout-Variant Document Images without Reading”, International Conference on Modeling and simulation (MS’07), Kolkota,India, 3rd – 5th Dec-2007
6. Sahana.D.Gowda, P.Nagabhushan, “Entropy Quantifiers useful for establishing equivalence between text document images”, International Conference on Computational Intelligence and Multimedia Applications (ICCIMA’07) 07, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu, India, 13th – 15th Dec-2007.
7. Sahana D Gowda, Surabhi Narayan, International Conference “Discrimination of Hand written and machine printed word components using Rough set theory” World Congress on Information and Communication Technologies (WICT 2012) , Trivandrum, 2012.
8. Sahana D Gowda, Surabhi Narayan, “Discrimination of Handwritten and Machine Printed Text in Scanned Document Images” VCASAN 2013, BNMIT, Bangalore, 17-19 July 2013.
9. Sahana. D. Gowda, P Nagabhushan, Muralidhara, “ Establishing the equivalence between two scale variant text components”, Emerging Research in Computing, Information, Communication and Applications(ERCICA-2014), Elsevier Publications, ISBN: 9789351072621, PP: 226-233, 2014
10. Sahana D Gowda, P Nagabhushan, Syed Imtiaz “Rule Line Detection and Removal in handwritten text images” International Conference on Signal and Image Processing, 2014(ICSIP-2014), BNMIT Bangalore,[Publisher: IEEE, ISBN No:978-0-7695-5100-5/13]. (IF: 3.735), Jan 2014.

11. Sahana D Gowda, Bhargavi M S, “An hybrid validity index for dynamic cut-off in hierarchical agglomerative clustering”, Third International Conference on Advances in Computing, Communications and Informatics (ICACCI-2014), Greater Noida, India, September 24-27 2014.
12. Sahana D Gowda, Ashwini Kumari.M, Bhargavi M.S,“Detection of Outliers in an Unsupervised Environment“ , International Conference on Computational Intelligence in Data Mining (ICCIDM), Sambalpur, Odisha, Dec 20th & 21st, 2014.
13. Sahana D Gowda, Muralidhara, P Nagabhushan “Establishment of Equivalence Between Two Degraded Document Images”, IEEE, International Advance Computing Conference 2015, Bangalore, India.[IEEE, ISBN No. 978-1-4799-8047-5/15/\$31.00©2015], 2015.
14. Sahana D Gowda, Anupama D.S, “Clustering of Web User Sessions to maintain Occurrence of Sequence in Navigation Pattern”, Second International Symposium on Computer Vision and the Internet (VisionNet’15), Procedia Computer Science, ELSEVIER, 2015.
15. Sahana D Gowda, Surabhi Narayan, “ Alignment Estimation of Document Images for Registration”, 6th IEEE International Advance Computing Conference (IACC-2016), Bhimavaram, Andhra Pradesh, India, February 27th & 28th , 2016.
16. Sahana D Gowda, Nirmala Y, “Classification of Mammogram Images Using Pattern Classifiers”, 6th International Conference on Signal & Image Processing (ICSIP-2017), Maharaja Institute of Technology Mysore (MITM), 18th – 19th Aug 2017.
17. Sahana D. Gowda, M.S. Bhargavi, “Cluster Representation and Discrimination based on Regression Line”, Third International Conference on Cognitive Computing and Information Processing, Springer publication, JSSATE, Bengaluru, 15 & 16 Dec 2017

Invited Talks Delivered:

1. Delivered lecture on Document Image Processing and Pattern Generation for Canivalence in FDP on Digital Image Processing & its Application at Navodaya institute of Technology, Raichur, January 2015
2. International Document Image Processing Summer School 2015(IDIPS-2015), Kefalonia Island, Greece, 2015.
3. Delivered lecture on Pattern Matching in FDP on Research Trends in Image Processing and Hands-On using MATLAB, Don Bosco Institute of Technology, January 2015
4. Delivered lecture on Digital Image Processing in Edusat education at VTU Centre, 2014.
5. Delivered lecture on Logic design in Edusat education at VTU Centre, 2013.
6. Delivered lecture on Document Image Processing in Faculty Development Program at SJBIT, Bangalore, 2012.
7. Invited as Subject Expert to deliver online course on Logic Design, VTU Edusat Programme 15, August to November 2011
8. Delivered lecture on Document Image Processing in Faculty Development Program at PES, Mandya, 2010.

Chairmanships at National/International Conference/Seminars:

1. **Technical Advisory Committee Member** for 5th National Conference on Multimedia Technology and Communication System (NCMTCS-2019) at Malnad College of Engineering, Hassan on 10th and 11th May 2019.
2. **Session Chair** for International Conference on Information and Computing Systems, AMC Engineering College on 3rd and 4th May 2019.

3. **Reviewer** for 3rd International Conference on Emerging Research in Electronics, Computer Science and Technology on 23rd and 24th August 2018.
4. **Reviewer** for 5th International Conference on Emerging Research in Computing, information, communication and applications- ERCICA 2018.
5. **Honorary Chair** at 6th International Conference on Signal & Image Processing, Maharaja Institute of Technology, Mysore, 2017
Reviewer for International Journal on Intelligent Automation and Soft Computing, 2017
7. **Ph.D Thesis Evaluator** – Karpagam University, Coimbatore, Tamilnadu, June 2017
8. **Reviewer** for ICTACT Journal on Image and Video Processing Global Impact Factor- 0.786, 2016
9. **Doctoral Committee Member** for progress evaluation of Research Scholars at P.E.S College of Engineering, Mandya, July 2016
10. **Ph.D Thesis Evaluator**, Griffith University, Australia, September 2015
11. **Ph.D Thesis Evaluator**, University of Mysore, January 2014
12. **Session Chair** at 7th National Conference on Recent Trends in Computer Science & Engineering for faculties & PG Students and Workshop on RTI, SJB Institute of Technology, April 2012
13. **Reviewer** for International conference on Information Processing (ICIP), 2012
14. Invited as Subject Expert to deliver online course on Digital Image Processing, VTU Edusat Programme 17, 2012
15. **Reviewer** for International Conference on Computer Vision, graphics and Image Processing (ICVGIP), 2011
16. **Reviewer** for International Conference on Signal and Image Processing(ICSIP), 2010
17. **Session Chair** at International Conference on Integrated Intelligent Computing, SJB Institute of Technology, Bangalore, 5th to 7th August 2010.

Participation in Training courses/Seminars/Workshops:

1. IEEE Signal Processing Society Meeting and 2nd Summer School on Advances in Deep Architectures for Signal, Image and Vision Applications, Indian Institute of Information Technology, Allahabad from 24th to 30th June 2019.
2. Workshop on “Preparation for Accreditation by NBA” 3rd – 5th Dec 2015.
3. International Conference on Computational Intelligence and Multimedia Applications (ICCIMA’07) 07, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu, India, 13th – 15th Dec-2007.
4. International Conference on Modeling and simulation (MS’07), Kolkota, India, 3rd – 5th Dec-2007.
5. International Conference on Advances in Computer Vision and Information Technology (ACVIT) Aurangabad India, 28th – 30th Nov-2007.
6. International Symposium on Cognition and Recognition Technologies, at PES School of Engineering, Bangalore, 29th -30th Dec 2006.
7. International Conference on Signal and Image Processing”, B.V Bhoomaraddi College of Engineering and Technology, Hubli, 7th – 9th Dec 2006.
8. Seminar on “Restructuring of Technical Education to meet the Global Industrial needs”, Bangalore Institute of Technology, Bangalore, 17th & 18th Nov 2006.
9. Workshop on “Algorithm Design and Analysis”, at Bannari Amman Institute of Technology, Tamil Nadu, 24th – 25th Aug 2006.
10. International Conference on Cognition and Recognition (ICCR-05), PES College of Engineering, Mandya, 22nd -23rd Dec 2005

Personal Details:

- **Date of Birth:** 24-12-1977
- **Family Details:** Mr. Chetan Gowda M K
- **Residential Address :** No. 17, "Sathwik"
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Bengaluru-560062

Dr. Sahana D Gowda