

Dr. BHARATHI P. T

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Education

	Degree	Year	Institute	Specialization
1	Ph.D	2016	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu, India	Digital Image Processing Pattern Recognition & AI, ML and DL
2	MCA	2004	B M S College of Engineering, Bengaluru	
3	B.Sc(Maths, Electronics and Computer Science)	2001	Teresian College, Mysuru	

Professional Experience

	Date (from-to)	Designation	Organization
1	12/10/2022 to till data	Assistant Professor Dept. of CS&E	Siddaganga Institute of Technology
2	01/06/2006 to 11/10/2022	Assistant Professor Dept. of MCA	Siddaganga Institute of Technology

(Please fill in reverse order. Current designation should be at the top)

Positions held

1. Member BOE in Dept. of MCA, Siddaganga Institute of Technology, Tumakuru.
2. Member BOE, Shri Siddhartha Institute of Technology, Tumakuru.

Courses Taught

Undergraduate Courses

- Programming with Python (Open Elective)
- Introduction to C Programming
- Operating System (Open Elective)
- Programming Concepts and C language
- Database Management System
- Web Programming
- Introduction to Web Programming (Open Elective)

Postgraduate Courses

- System Software
- Numerical Methods
- Computer Networks
- Introduction to UNIX
- Operations Research
- Programming with Python
- Digital Image Processing

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1.	Mrs. ASHWITHA B M	Implementation of Wireless Sensor Network and Artificial Intelligence in Classroom	Course work Completed
2.	Mrs. NOUSHEEN TAJ	Automation of Mineral R O Water Plant using Artificial Intelligence	CV Completed
3.	Mrs. VASUDHA D	Innovative Methods And Applications Of Machine Learning in Animal Husbandry With Special Reference To Dairying	Course work

Research Areas

- Digital Image Processing
- Pattern Recognition
- AI, ML and DL

Publications

Journals

- Bharathi P. T and Malatesh S Jangannavar , “Air Quality Index Prediction using Machine Learning Techniques”, Grenze International Journal of Engineering and Technology, Jan 2022 Issue.
- Mownika H C and Bharathi P T, “Deep Learning Approaches To Detect COVID-19 Using Chest X-Ray Images”, International Journal for Science and Advance Research in Technology (IJSART), ISSN [ONLINE]: 2395-1052, Volume 7 Issue 7, pp. 704 – 709, JULY 2021
- Vikram Malgund and Bharathi P. T, “Joomla Component Development for Content Management System based Job Portal Website”, International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), e-ISSN: 2320-9801, p-ISSN: 2320-9798, | DOI: 10.15680/IJIRCCE.2021.0907115 |, Volume 9, Issue 7, pp. 8515 – 8518, July 2021
- Supriya K.C.and Bharathi P.T., “Movie Classification Based on Genre Using Map Reduce”, International Journal of Applied Research on Information Technology and Computing (IJARITAC), Vol. 11, Issue 1, pp. 27-37, January-April, 2020
- Bharathi P. T and Jagadish K, “Web Service Testing Using Open Source Maven”, International Journal for Science and Advance Research in Technology (IJSART), ISSN [ONLINE]: 2395-1052, Volume 4 Issue, pp. 877 – 879, JANUARY 2018.
- Poornima D, Asha Gowda Karegowda, Divya, Bharathi P.T., “A Pragmatic Review of Denoising Techniques Applied for Medical Images”, International Journal of Applied Research on Information Technology and Computing (IJARITAC), Vol. 8, Issue. 1, pp. 81-104, January - April 2017.
- Poornima D, Asha Gowda Karegowda, Divya, Bharathi P.T., “A Comprehensive Review of Medical Image processing techniques for Thyroid Disorders”, International Journal of Applied Research on Information Technology and Computing (IJARITAC), Vol. 8, Issue. 1, pp. 56-80, January - April 2017.
- Asha Gowda Karegowda, H. S. Divya, Bharathi P.T., “Content Based Image Retrieval Using GLCM, Color GLCM, Local and Global Histogram”, International Journal of Data Mining and Emerging Technologies ,Vol 6(2), pp 52-60, 2016.
- Kavya R.M, Asha Gowda Karegowda, Bharathi P. T., and H. K. Virupakshaiah, “Image Processing Techniques Based Plant Disease Detection: A Pragmatic Review”, International Journal of Advance Foundation and Research in Computer (IJAFRC), ISSN No: 2348-4853, Volume 3, Issue 8, pp 1-5, September – 2016.

- Bharathi P.T., P. Subhashini, Asha Gowda Karegowda., “Extreme Learning Machine based Differential Evolution Feature Selection approach for Feature subset reduction from Digital images”, International Journal of Applied Research on Information Technology and Computing (IJARITAC), ISSN: 0975-8-70(Print), 0975-8089, Vol. 7, No. 2, pp. 119-131, May-August 2016.
- H. S. Vijaya Kumar, Bharathi P T and Madhuri R, “A Novel Method for Image Analysis and Exudates Detection in Retinal Images”, International Journal of Advance Research and Innovation (IJARI), ISSN: 2347-3258, Volume 4, Issue 1, pp. 219 – 223, 2016.
- Asha Gowda Karegowda and Bharathi P. T., “Enhancing CBIR Performance Using Evolutionary Algorithm-Assisted Significant Feature Selection: A Filter Approach”, International Journal of Applied Research on Information Technology and Computing (IJARITAC), ISSN: 0975-8-70(Print), 0975-8089, Vol. 7, No. 1, pp. 53-59, April 2016.
- H. S. Vijaya Kumar, M. A. Jayaram, Asha Gowda Karegowda and Bharathi P. T., “A Comparative Study on Filters with Special Reference to Retinal Images”, International Journal on Computer Applications(IJCA), ISSN: 0978-8887, Vol. 138, No. 5, pp. 36-41, March 2016.
- Bharathi P. T and P. Subashini, “Optimal Feature Subset Selection Using Differential Evolution with Sequential Extreme Learning Machine for River ice Images”, ISSN: 2159-3442, DOI:10.1109/TENCON.2015.7372861, pp. 1-6, IEEE Trans, 2015.
- Bharathi P. T and P. Subashini, “Differential Evolution and Genetic Algorithm based Feature Subset Selection for Recognition of River Ice types”, Journal of Applied and Theoretical Information Technology (JATIT), ISSN: 1992-8645 (Print), E-ISSN: 1817-3195 (Online), Vol. 67 No.1, pp. 254 – 262, September 2014.
- Bharathi P. T and P. Subashini, “Optimal Feature Subset Selection Using Differential Evolution and Extreme Learning Machine”, International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064, Volume 3 Issue 7, pp. 1898 – 1905, July 2014.
- Bharathi P. T and P. Subashini, “Decision Based Median Filter using Particle Swarm Optimization for Impulsive Noise”, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), ISSN: 2279-0055 (online), 2279-0047 (Print), Vol.1, Issue 4, pp. 109-115, March-May 2013.

- Bharathi P. T and P. Subashini, “Texture based Color Segmentation of Infrared River Ice Images using K-Means Clustering”, IEEE International Conference on Signal Processing, Image Processing and Pattern Recognition [ICSIPR], ISBN-978-1-4673-4862-1/13, Pages: 298 - 302, DOI: 10.1109/ ICSIPR.2013. 6497944, 2013.
- Bharathi P. T and P. Subashini, “De-noising filter for impulse noise in Glacier ice Infrared images”, International Journal of Advances in Computer Science and its Application – IJCSIA, ISSN:- 2250-3765, Vol. 2, Issue 3, pp. 243-247, December 2012.
- Bharathi P. T and P. Subashini, “Automatic Noise Identification in Images using Statistical Features”, International Journal of Computer Science and Technology (IJCST), ISSN: 0976-8491 (online), 2229-4333 (Print), Vol. 2, Issue 3, pp. 467-471, September 2011.
- Bharathi P. T and P. Subashini, “Optimization of Image Processing Techniques using Neural Networks – A Review”, WSEAS TRANSACTIONS on INFORMATION SCIENCE and APPLICATIONS, ISSN: 1790-0832, Vol. 8, Issue 8, pp. 300-328, August 2011.

Conference Proceedings

- Prarthana K.;Bharathi P.T.;Virupakshaiah H.K., “Automated Sentiment Analysis of South Indian Movie Reviews Using Machine Learning” International Conference on Smart Systems for Applications in Electrical Sciences ICSSSES 2025
DOI:10.1109/ICSSSES64899.2025.11009671
- Bharathi P.T.;Bindu S.N.;Deepthi S.G.;Gunakeerthi H.U.;Harshitha K.U., “AI based solution for Predicting Hepatitis C Virus from Blood Samples”, International Conference on Smart Systems for Applications in Electrical Sciences, ICSSSES 2024, Year 2024, Tumakuru, India.
DOI:10.1109/ICSSSES62373.2024.10561391
- Nousheen Taj and Bharathi P.T., “Smart Marks Manager:A Smart Tool for Quick Assessments”, 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024, Volume 2, Pages 6816-6823Year 2024.
- Bharathi P.T.;Prashanth G.K.;Mounika S., “Skin Disease Prediction Using Machine Learning Techniques”, 3rd IEEE International Conference on Mobile Networks and Wireless Communications, ICMNWC 2023, Year 2023, Tumakuru, India.

DOI:10.1109/ICMNWC60182.2023.10436003

- ASHWITH B M & BHARATHI P T, “Wireless Sensor Network and AI boom in classroom - A Review”, International Conference on Smart Systems for applications in Electrical Sciences (ICSSES – 2023) organized by Association of Electrical Sciences, SIT, Tumakuru, Karnataka on 7th & 8th July 2023, Tumakuru, India. DOI: 10.1109/ICSSES58299.2023.10199739
- Bharathi P. T, Kiran K, Prashanth G K, Virupakshaiah H K and Asha Gowda Karegowda, Lake Ice Infrared Image De-noising using Deep Learning Convolutional Neural Network, International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT), held at PES College, Mandya, Karnataka on 26th and 27th Dec 2022, Mandya, India. DOI:10.1109/ICERECT56837.2022.10060448
- Prashanth G K, Virupakshaiah H K, Bharathi P. T, Asha Gowda Karegowda, Tejaswini K M and Kiran K, Plant foliage Recognition based on Classification using Artificial Neural Network, International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT), held at PES College, Mandya, Karnataka on 26th and 27th Dec 2022, Mandya, India. DOI:10.1109/ICERECT56837.2022.10060430
- Asha Gowda Karegowda, Leenarani A, Poornima D., Pooja R, Shreetha Bhatt and Bharathi P. T, Deep Learning based Handwritten Arithmetic Equation Solver, International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT), held at PES College, Mandya, Karnataka on 26th and 27th Dec 2022, Mandya, India. DOI:10.1109/ICERECT56837.2022.10060732
- Bharathi P.T and Malatesh S Jangannavar , “Air Quality Index Prediction using Machine Learning Techniques”, Emerging Trends in Communication and Networking (ETCAN’ 21), held at Kongunadu College of Engineering and Technology, Trichy, Tamil Nadu on 22nd and 23rd Oct 2021.
- Bharathi P. T and Dr. P. Subashini, “Optimal Feature Subset Selection Using Differential Evolution with Sequential Extreme Learning Machine for River ice Images”, TENCON 2015 - 2015 IEEE Region 10 Conference, 1st – 4th Nov 2015, Macau, China. DOI:10.1109/TENCON.2015.7372861
- Bharathi P. T and P. Subashini, “Texture Feature Extraction of Infrared River Ice Images using Second-order Spatial Statistics”, International Conference on Computer

Vision, Image and Signal Processing, ICCVISIP 2013, World Academy of Science, Engineering and Technology, WASET, ISSN – 2010-376X, 2010-3778, pp. 747-757, Issue 74, Feb 27th – 28th , 2013, Barcelona, Spain.

- Bharathi P. T and P. Subashini, “Texture based Color Segmentation of Infrared River Ice Images using K-Means Clustering”, 2013 IEEE International Conference on Signal Processing, Image Processing and Pattern Recognition ICSIPR 2013, ISBN-978-1-4673-4862-1/13/\$31.00, pp. 298-302, Karunya University, Coimbatore, Feb 7th – 8th, 2013.

DOI:10.1109/ICSIPR.2013.6497944

- Bharathi P. T and P. Subashini, “De-noising filter for impulse noise in Glacier ice Infrared images”, Proc. of the International Conference on Advances in Image Processing and Computation Techniques, ISBN: 978-981-07-2969-1, doi:10.3850/978-981-07-2969-1, PCT-140, pp. 12-16, July 14th – 15th, 2012, Singapore.
- Bharathi P. T and P. Subashini, “Automatic Identification of noise in ice images using Statistical Features”, International Conference on Digital Image Processing, ICDIP 2012, SPIE Digital Library, Vol: 8334, 83340G, 2012, ISBN: 978-0-8194-8991-3, pp. 1-6, April 7th – 8th 2012, Kuala Lumpur, Malaysia.

DOI:10.1117/12.946038

- Asha Gowda Karegowda, Bharathi P.T, M.A.Jayaram, A.S .Manjunath “Automatic Detection of Exudates in Diabetic Retinopathy using Traditional & Machine Learning Techniques: An Overview”, International Conference On Computing (ICC), 27-28 December 2010, New Delhi.