



JSS Mahavidyapeetha

# JSS Academy of Technical Education

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060

www.Jssateb.ac.in



## FACULTY PROFILE

Department: Computer & Science Engineering

### 1. Personal Details

NAME	Dr. P B Mallikarjuna	
DEPARTMENT	Computer Science and Engineering	
DESIGNATION	Professor	
PHONE	+91 8861004385	
EMAIL ID	<a href="mailto:mallikarjunapb@jssateb.ac.in">mallikarjunapb@jssateb.ac.in</a>	
Date of Joining (JSSATEB)	31-07-2015	

### 2. Experience

Total Experience in Years	Teaching: 24 Years	Industry: Nil	Research: 17 Years
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### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Electronics and Communication Engineering	1999	Bapuji Institute of Engineering and Technology, Davangere-577004 Karnataka INDIA	Kuvempu University, Shankaragatta, Shimoga, Karnataka
M.Tech.	Computer Engineering	2002	Sri Jayachamrajendra College of Engineering (SJCE), Mysuru-570006 Karnataka INDIA	Visvesvaraya Technological University (VTU), Belagavi, Karnataka
Ph.D.	Computer Science	2013	Department of Studies in Computer Science University of Mysore, Mysore	University of Mysore Karnataka

#### 4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 11	National: 00
Papers Published in SCOPUS indexed Journals	International: 08	National: 00
Papers Published in other Journals	International: 02	National: 00
Papers Presented in Conferences / Symposium	International: 10	National: 00
Books / Book chapters Published	Name of the book: Multimedia Processing, Communication and Computing Applications Chapter: Fusion of texture features and SBS method for classification of tobacco leaves for automatic harvesting Publisher: Springer, Lecture Notes in Electrical Engineering book series (LNEE, volume 213) Year of Publication: 2013	
	Name of the book: Advances in Computer Science and Information Technology. Computer Science and Engineering Chapter: Performance Evaluation of Segmentation of Frog-Eye Spot Lesions on Tobacco Seedling Leaves Publisher: Springer, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering Year of Publication: 2012	
	Name of the book: ICT for Competitive Strategies Chapter: An Enhanced and Dynamic Crowd Estimation System Publisher: Taylor & Francis Group Year of Publication: 2019	
	<b>Name of the book:</b> Data Science <b>Chapter:</b> Ripeness Evaluation of Tobacco Leaves for Automatic Harvesting: An Approach Based on Combination of Filters and Color Models Publisher: Springer Year of Publication: 2021	

#### 5. Research Guidance

PhD Guide? Give field & University	Yes, Machine Learning, Deep Learning, Image Processing	University: Visvesvaraya Technological University, Belagavi,
PhDs / Projects Guided	Ph.D. Awarded: 02 Guiding: 02	Projects at Master's Level: 06 Projects at Bachelor's Level: 50

#### 6. Awards Received

<b>Awards "Best Research Paper Award"</b>	Received "First Best Research Paper Award" for the Research Paper Entitled "Fusion of Texture Features and SBS Method for Classification of Tobacco Leaves for Automatic Harvesting" at International Conference on Multimedia Processing, Communication and Computing Applications held at PES Institute of Technology, Bengaluru, on 13-15 December 2012.
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## 7. Publications

### i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Land use and land cover classification for change detection studies using convolutional neural network	V Pushpalatha, PB Mallikarjuna, HN Mahendra, S Rama Subramoni am, S Mallikarjun aswamy	Applied Computing and Geosciences	25, 2025	Both Wos & Scopus	3.2	Elsevier
2	Aircraft Gearbox Fault Diagnosis System: An Approach based on Deep Learning Techniques	P B Mallikarjuna Sreenatha M S Manjunath Niranjana C Kundur	Journal of Intelligent Systems	30(1), 258-272, 2020	Both WOS & Scopus	2.0	De Gruyter
3	Machine Vision Based Classification of Tobacco Leaves for Automatic Harvesting	P B Mallikarjuna D S Guru S Manjunath M M Shenoi	Intelligent Automation & Soft Computing	18(5), 581-590, 2012	Both WOS & Scopus (SCI Indexed)	1.276	Taylor & Francis
4	Ensemble Efficient Net and ResNet model for Crop Disease Identification	Niranjana C Kundur, PB Mallikarjuna	International Journal of Intelligent Systems and Applications in Engineering	10(4), 378-390, 2022	Scopus	0.742	Ismail Saritas
5	Deep Convolutional Neural Network Architecture for Plant Seedling Classification	Niranjana C Kundur, PB Mallikarjuna	Engineering, Technology & Applied Science Research	12(6), 2022	Both WOS & Scopus	1.449	D. G. Pylarinos
6	A Fault Diagnosis Technique for Wind Turbine Gearbox: An Approach using Optimized BLSTM Neural Network with Undercomplete Autoencoder	M Sreenatha, PB Mallikarjuna	Engineering, Technology & Applied Science Research	13(1), 10170-10174 2023	Both WOS & Scopus (SCI Indexed)	1.449	D. G. Pylarinos
7	Insect Pest Image Detection and Classification using Deep Learning	Niranjana C Kundur, PB Mallikarjuna	International Journal of Advanced Computer Science and Applications	13(9)	WOS & Scopus	1.162	Science and Information Organization

8	Min-max representation of features for grading cured tobacco leaves	P B Mallikarjuna D S Guru S Manjunath M M Shenoi	Statistics and Applications	9(1&2), 15-29 2011,	WOS	---	Society of Statistics Computer & Application
9	Selective harvesting of Tobacco Leaves: An approach based on texture Features	P B Mallikarjuna D S Guru	Statistics and Applications	Paper accepted on feb 07, 2021	WOS	----	Society of Statistics Computer & Application
10	Performance evaluation of segmentation and classification of tobacco seedling diseases	P B Mallikarjuna D S Guru	International Journal of Machine Intelligence	3(4), 204-211, 2011	----	----	Bioinfo Publishers
11	Faculty Performance Evaluation using DataMining	PB Mallikarjuna, G Nirmala	International Journal of Advanced Research in Computer Science & Technology	2(3), 81-97 2014	---	----	IJARCS

## ii. Conferences

Sl. No	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Imp act Factor	Publisher
1	Spots and color based ripeness evaluation of tobacco leaves for automatic harvesting	P B Mallikarjuna D S Guru	Proceedings of the First International Conference on Intelligent Interactive Technologies and Multimedia, IIT Allahabad	<a href="https://doi.org/10.1145/1963564.1963597">https://doi.org/10.1145/1963564.1963597</a> 2010, pp. 198-202	Scopus		ACM Digital Library
2.	Segmentation and classification of tobacco seedling diseases	P B Mallikarjuna D S Guru S Manjunath	Proceedings of the Fourth Annual ACM Bangalore Conference	<a href="https://doi.org/10.1145/1980422.1980454">https://doi.org/10.1145/1980422.1980454</a> March 2011, pp. 1-5	Scopus		ACM Digital Library
3.	Cured Tobacco Leaves Grading: An Approach Based on Inter-Valued Data	P B Mallikarjuna D S Guru S Manjunath	5th Indian International Conference on Artificial Intelligence (IICAI-11), SIT, Tumukur	December 14-16 2011	Scopus		IACAI
4.	Performance evaluation of segmentation of frog-eye spot lesions on tobacco seedling leaves	P B Mallikarjuna D S Guru	International Conference on Computer Science and Information Technology	85(PART 2) January 2012, pp. 444-453	Scopus		Springer (LNICST)
5.	Fusion of texture features and SBS method for classification of tobacco leaves for automatic harvesting	P B Mallikarjuna D S Guru	Proceedings of the First International Conference, ICMCCA, PESIT, Bengaluru	13-15 December 2012	Scopus		Springer (LNEE)

6	An Enhanced and Dynamic Crowd Estimation System	P B Mallikarjuna Sreenatha M, S Manjunath, Niranjana C Kundur, Praveen M. Dhulavvagol	4th International Conference on Information and Communication Technology for Competitive Strategies	December 13th-14th, 2019	Scopus		Taylor & Francis Group
7	Classification of Tobacco Leaves for Automatic Harvesting: An Approach Based on Feature Level Fusion and SBS Method	P B Mallikarjuna D S Guru	Bilateral Russian-Indian Scientific Workshop on EMERGING APPLICATIONS OF COMPUTER VISION	November, 2011	---		Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow state university
8	Fusion of Texture Features and sequential Forward selection Method for Classification of Tobacco Leaves for Automatic Harvesting	P B Mallikarjuna D S Guru	International Conference on Computational Vision and Robotics	August 14 -15, 2015	---		IRNet

### iii. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	SUMMER SCHOOL ON MACHINE LEARNING: ADVANCES IN MODERN AI	IIT, Hyderabad	July 9 – 14, 2018
2	International Conference on Machine Learning, Network Security and Data Sciences	NIT, Kurukshetra	March 3 – 4, 2019
3	SCHOOL ON GRAPH ALGORITHMS	Karnataka University, Department of Computer Science in Collaboration with VTU, Belgaum	March 26 – 31, 2011
4	First International Conference on Intelligent Interactive Technologies and Multimedia, (IITM-2010)	IIT, Allahabad	December 28-30, 2010
5	Seventh Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP-2010)	IIT, Madras	December 12-15, 2010
6	Fourth Annual Conference COMPUTE 2011	ACM Bangalore	March 25 -26, 2011
7	5th Indian International Conference on Artificial Intelligence (IICAI-11),	SIT, Tumukur	December 14-16 2011
8	XIII Annual Conference of the Society of Statistics, Computer and Applications	NAARM, Hyderabad	February 24 - 26, 2011
9	Faculty Enablement Program on Foundational Computer Science Courses – An Industry Perspective (CAMPUS CONNECT)	Infosys Technologies Ltd, Bhubaneswar	February 20 <sup>th</sup> - March 4 <sup>th</sup> , 2005
10	Third International Conference on Cognition & Recognition	Department of Studies in Computer Science, University of Mysore, Mysuru	December 9-10, 2011

11	First International Conference on Multimedia Processing, Communication and Computing Applications	PESIT, Bengaluru	December 13 -15, 2012
12.	Work Shop on Quality of Service on Internet	Bapuji Institute of Engineering & Technology, Davangere	July 4 – 9, 2005
13.	Workshop on Linear Algebra & its Applications	Department of Science and Humanities, PESIT, Bengaluru	August 5 – 6, 2008
14.	Second International Conference on Signal and Image Processing	Vidya Vikas Institute of Engineering and Technology	August 12 – 14, 2009
15.	International Conference on Computer Science and Information Technology	AIRCC Publishing Corporation, Bengaluru	January 2 – 4, 2012

**iv. Workshops / Conference (Organised)**

Sl. No.	Name of the workshop / Conference	Organised by	Date	Role
1	Four-day Symposium on Linear Algebra and its Applications in Computer Vision	Department of Computer Science and Engineering, JSSATE, Bengaluru-560060	July 13 - 16, 2016	Program Coordinator & Resource Person
2	FDP on “Machine Learning Techniques and Tools”	Department of Computer Science and Engineering, JSSATE, Bengaluru-560060	December 2018	Resource Person & Organizing Committee Member
3	Third International Conference on CCIP-2017	Department of Computer Science and Engineering, JSSATE, Bengaluru-560060	December 15-16, 2017	Technical Program Co-Chair
4	Two Days workshop on “Deep Learning Techniques”	Department of Computer Science and Engineering, JSSATE, Bengaluru- 560060	17/02/2024 and 24/02/2024	Program Coordinator
5	Three Days Faculty Development Program on “Cloud Computing”	Department of Computer Science and Engineering, JSSATE, Bengaluru-560060	February 6-8, 2025	Program Coordinator
6	Two days workshop on Generative Ai & Its Applications	Department of Computer Science, JSS Academy of Technical Education, Bengaluru	15/11/2024 - 16/11/2024	Program Coordinator & Resource Person
7	NVIDIA Certified Online Workshop on Building LLM Applications using Prompt Engineering	Department of Computer Science, JSS Academy of Technical Education, Bengaluru	03/12/2025	Program Coordinator
8	FIRST INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND COMMUNICATION SYSTEMS (CICCS-2025)	JSS Academy of Technical Education, Bengaluru	Sept 18 <sup>th</sup> - 20 <sup>th</sup> , 2025	TRACK-1 Chair: Computational Intelligence & Computer Vision

**v. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)**

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	First International Conference on Intelligent Interactive Technologies and Multimedia, (IITM-2010)	IIT, Allahabad	December 28-30, 2010
2	Seventh Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP-2010)	IIT, Madras	December 12-15, 2010
3	Fourth Annual Conference COMPUTE 2011	ACM Bangalore	March 25 -26, 2011
4	SUMMER SCHOOL ON MACHINE LEARNING: ADVANCES IN MODERN AI	IIT, Hyderabad	July 9 – 14, 2018
5	SCHOOL ON GRAPH ALGORITHMS	Karnataka University, Department of Computer Science in Collaboration with VTU, Belgaum	March 26 – 31, 2011
6	International Conference on Machine Learning, Network Security and Data Sciences	NIT, Kurukshetra	March 3 – 4, 2019
7	SCHOOL ON GRAPH ALGORITHMS	Karnataka University, Department of Computer Science in Collaboration with VTU, Belgaum	March 26 – 31, 2011
8	XIII Annual Conference of the Society of Statistics, Computer and Applications	NAARM, Hyderabad	February 24 - 26, 2011
9	Faculty Enablement Program on Foundational Computer Science Courses – An Industry Perspective (CAMPUS CONNECT)	Infosys Technologies Ltd, Bhubaneswar	February 20 <sup>th</sup> - March 4 <sup>th</sup> , 2005
10	Third International Conference on Cognition & Recognition	Department of Studies in Computer Science, University of Mysore, Mysuru	December 9-10, 2011

#### 8. Details of NPTEL / COURSEARA/MOOC courses completed

Sl. No.	Name of the subject	Agency	Date of completion / Award	Grade / Marks
1	Machine Learning	NPTEL, IIT Madras	July – October 2019 Duration: 12 weeks	59.46
2	Deep Learning	NPTEL, IIT Kharagpur	14 <sup>th</sup> sept – 4 <sup>th</sup> Dec, 2020 Duration: 12 weeks	Elite / 69.41
3	Dell GenAI Foundations - Proven Professional BADGE	Dell Technologies	21/10/2024	Secured 90% Score in Dell GenAI Foundation Exam

#### 9. Membership of Professional Bodies:

1. Life Membership in Indian Society for Technical Education (MISTE)
2. Life Membership in Indian Science Congress
3. Life Membership in Society of Statistics and Applications

**10. Any other information you will like to share about your professional experience**

- **Technical Talk delivered to the outside world**

<b>Sl. No.</b>	<b>Name of the workshop / Conference</b>	<b>Technical Talk on</b>	<b>Organiser</b>	<b>Date</b>
1	As a part of Internship Training	Machine Learning Concepts	Department of Electronics and Communication Engineering Govt. Engineering College, Kushalnagara, Kodagu (DIST), Karnataka	July 27 <sup>th</sup> , 2020
2	Four-day Symposium on Linear Algebra and its Applications in Computer Vision	Dimensionality Reduction Techniques in Pattern Classification	Department of Computer Science and Engineering, JSSATE, Bengaluru-560060	July 16, 2016
3.	FDP on "Machine Learning Techniques and Tools"	Bayesian classifiers	Department of Computer Science and Engineering, JSSATE, Bengaluru-560060	December 18, 2018
4.	UGC Sponsored National Conference on "Network Security, Image Processing and Information Technology"	Classification Techniques	Department of Computer Applications, Sahyadri College, Shivamogga	March 17, 2017
5.	One-week Lecture-series-2018	Machine Learning Concepts	Department of Electronics and Communication Engineering, BIET, Davangere	October 3, 2018
7	FDP on "AI in Real-Time",	AI Agents	Department of Studies in Computer Science, University of Mysore, Mysuru	10/01/2025
8	Hands on Session - Machine Learning Tools for Biomedical Instrumentation	Machine Learning Tools for Biomedical Instrumentation	Department of Electronics & Instrumentation, JSSATE, Bengaluru-560060	08/04/2025

- **Technical Advisory Consultant for Dhiware Technologies Ltd., Bengaluru**

**Dr. P B Mallikarjuna**  
**Professor**  
**Department of Computer Science and Engineering**  
**JSS Academy of Technical Education**  
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