Curriculum Vitae



Brief Profile: Dr. Balaji Banothu is an Assistant Professor presently working in the Department of Computer Applications, National Institute of Technology Tiruchirappalli (NITT), India. He received his Ph.D. Degree from the Department of Mathematical and Computational Sciences, National Institute of Technology Karnataka (NITK), Surathkal, India in the year 2018, and his M.Tech. Degree from the IIT Kharagpur, India in the year 2010. His research interests include Image Processing, Image Restoration, Deep Learning, and Machine Learning. He has published articles in reputed international journals and in reputed international conferences.

1. Name: Dr.Balaji Banothu

2. Designation: Assistant Professor

3. Office Address: Dept. of Computer Applications, NIT Tiruchirappalli, Tamil Nadu, India-620015

4. Telephone (Direct) (Optional): Telephone : Extn (Optional):

Mobile (Optional): 8971027077

5. Email (Primary):balaji@nitt.edu

Email (Secondary):balajiwgl@gmail.com

6. Field(s) of Specialization: Image Processing, Image Restoration, Deep Learning, Machine Learning.

7. Employment Profile

Job Title	Employer	From	То
Assistant Professor	NIT Trichy, India	11.05.2020	Till Date
Assistant Professor	IIIT Naya Raipur, India	13.01.2020	30.03.2020
Assistant Professor	VFSTR Deemed to be University, AP, India	04.06.2018	09.01.2020
Assistant Professor	VFSTR Deemed to be University, AP, India	15.06.2010	26.12.2014

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	NITK, Surathkal	2018		Image Restoration
M.Tech.	IIT Kharagpur	2010	First	Computer Science and Data Processing
M.Sc	Kakatiya University, Warangal	2008	First	Mathematics
B.Sc	Kakatiya University, Warangal	2005	First	Computer Science
Intermediate	Board of Intermediate, Andhra Pradesh	2002	First	Mathematics, Physics, Chemistry

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	То
Member	Ph.D. Admission Committee Dec-	10.11.2020	30.4.2021
	2021, NIT Trichy		
Member	NIMSET 2020 Counselling Committee,	10.07.2020	11.12.2020
	NIT Trichy		
Co-Ordinator	M.Tech. (Data Analytics) Syllabus,	10.08.2021	Till Date
	NIT Trichy		
Member	Anti-Raging Committee Member, NIT	Dec-2020	Till Date
	Trichy		
Member	16 th Convocation Certificate	August 2020	Oct 2020
	Verification Committee Member, NIT		
	Trichy		
PAC Chair	M.Sc(CS), NIT Trichy	July 2021	Dec2021
Person			
PAC Chair	M.Tech(DA), NIT Trichy	Jan-2021	May-2021
Person			
PAC Chair	M.Sc(CS), NIT Trichy	Jan 2022	May 2022
Person			
Placement	VFSTR Deemed to be University,AP	Jan 2010	Dec 2014
Coordinator	-		
Internship	VFSTR Deemed to be University,AP	Aug 2018	Jan 2020
Coordinator	-		

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	То
BOS Member	Lendi Institute Of Engineering And Technology, AP	July-2020	Till Date
	And reciniology, Ar		
Member, Doctoral	VIT, Vellore	2021	Till Date
Committee			
Member, Doctoral	SRM, AP	2022	Till Date
Committee			

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of	Name of the Fellowship	Awarding	From	То
Award		Organization	(Month/Year)	(Month/Year)
2015	Ph.D. Fellowship	Ministry of	02.01.2015	10.04.2018
		Human Resource		
		& Development,		
		Govt. of India		
2008	M.Tech. Fellowship	Ministry of	July 2008	June 2010
		Human Resource		
		& Development,		
		Govt. of India		

13. Details of Academic Work

- (i) Curriculum Development
 - Assisted to develop Curriculum for B.Tech(CSE,IT),M.Tech(CSE, DA), M.C.A and M.Sc(CS).
 - Revised syllabus for subjects such as Image Processing, Formal Language Automata Theory, Compiler Design, Image and Video Analytics, Operating System, Data Structures, C-Language, Pattern Recognition, etc.
- (ii) Courses taught at Postgraduate and Undergraduate levels
 - Theory Courses: Web Technology and its Applications, Web Computing, Data Structures, Formal Language and Automata Theory, Compiler Design, Design and Analysis of Algorithms, Operating System, Object Oriented Programming Through Java (OOPs Through Java), C-Language, Design and Analysis of Algorithms.
 - Lab Handled: Web Technology and Its Application Lab, C-Language, OOPs Through Java,

(iii)Projects guided at Postgraduate level

Sr.No	Project Title	Student Name	M.C.A/M.Sc/M.tech.	Year
1.	Samsung bill- payment System	Majjari Vijaya	M.Tech.(DA)	June-
		Raghva(205220011)		2022
2.	Tracking Data Across	Vipul	M.Tech.(DA)	June-
	Distributed System Components	Vasistya(205220026)		2022
3.	Connect Broadband Access	Abhishek Kumar	M.C.A	May-
	Controller Distributed	Pandey (205119003)		2022
4.	Plant Leaf Disease Detection	Anindita Samanta	M.Sc(CS)	May-
	and Classification Based on	(205320004)		2022
	Transfer Learning Approach			
5.	Multi Attribute Dynamic	Shalu Patwari	M.Sc(CS)	May-
	Security Search	(205320020)		2022
6.	Face Mask Detection Using	Kundan (205118031)	M.C.A	June-
	Deep Learning Technique			2021
7.	HotFix Log Tool	Lal Chand	M.C.A	June-
		(205118034)		2021
8.	Agile Board Tool	Sahil Goel	M.C.A	June-
		(205118062)		2021
9.	SBAM Admin Application	Rajshi Singhar	M.C.A	June-
		(205118055)		2021
10.	DevOps Automation for	Praful Waghe	M.C.A	June-
	Immutable Infrastructure	(205118049)		2021
11.	Identification of Real and Fake	Mansi Awasthi	M.Sc(CS)	May-
	Disaster Tweets	(205319007)		2021

(iv)Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Eunding Agency		ation	Status
Title of Project	Funding Agency	From	То	Ongoing/ Completed

15. Number of PhDs guided/ongoing

Name of the Ph.D.	Title of Ph.D.		Role (Supervisor/ Co-	Year of
Scholar	Thesis		Supervisor)	Award
Mr. Jinaga Tulasiram	Medical	Image	Supervisor	Ongoing
	Restoration	by		
	using	Deep		
	Learning			
	Techniques			

Mrs. Cvnthia Devi A	Image processing	Supervisor	Ongoing
Wils. Cylidia Devi 11	image processing	Duper visor	Ongoing

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date	Title	of	Level	of	Role	Event Organized	Venue
(s)	Activity		Event		(Participant/	by	
			(Internat	ional/	Speaker/		
			National	/	Chairperson,		
			Local)		Paper presenter,		
					Any other)		
		•					

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Internet of Things (IoT)	National	30 th August– 1 st September 2019	Organizing Chairman	VFSTR Deemed to be University

18. Invited Talks delivered

Topic	Date	Inviting Organization	
Variational Approaches	22/12/2020	Dept. of Mathematics,	
for Despeckling and		Kakatiya University, Warangal	
Deblurring of Images			
Block Chain Technology	26/01/2021	KITS, Warangal	

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	IEEE	98177041, (Dec-2022)

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volu me (No.	Page numbe rs	Year	doi	Impact Factor of the Journal (Optional)
Satyanarayana Teki, Balaji Banothu, Mohan Varma	An Un-realized Algorithm for Effective Privacy Preservation Using Classification and Regression Trees.	Rev. d'Intelligenc e Artif.	33(4	313- 319	2019	https://doi.org/10.18280/ ria.330408	0.543
P. Jidesh and Balaji B.	Image despeckling with non-local total bounded variation regularization	Computers and Electrical Engineering (Elsevier),	70	631- 646	2018	https://doi.org/10.1016/ j.compeleceng.2017.09.013	4.152
P. Jidesh and B. Balaji	Adaptive non- local level-set model for despeckling and deblurring of Synthetic Aperture Radar imagery",	Internationa I Journal of Remote Sensing, (Taylor and Francis)	39	6540- 6556	2018	https://doi.org/10.1080 /01431161.2018.1460510	3.15
Banothu Balaji, Mohammed Hassan Khan, TSN Murthy, Tai-hoon Kim,	A Defense Mechanism for EOLSR against DOS Attacks in Ad hoc Networks Using Trust Based System	Internationa 1 Journal of Security and Its Application s	8(5)	51-66	2014	https://doi.org/10.1080/ 01431161.2018.1460510	3.12

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of	Title of the	Page	Conference	Venue	Year	doi
	Abstract/ Paper	Proceedings	numbers	Theme			
Balaji	Sensitive	IEEE		2nd CONIT	KLE	2022	
Banothu &	Lesions and	Proceedings		IEEE Conference	Institute of		
Jinaga	Tumour				Technology,		
Tulasiram	Detection in				Hubli		
	Brain using						
	Deep						
	Convolutional						
	Neural Network						
Balaji	Gamma Noise	Springer		3rd International	NIT	2022	
Banothu	Removal Using	Proceedings		Conference on	Warangal		
	High Order			Advances in			
	Total Bounded			Distributed			
	Variation			Computing and			
	Approach			Machine			
				Learning			
				(ICADCML)-			
				2022			
B.Balaji	Non-local	IEEE		ICAPR- 2017,	ISI	2017	
&P.Jidesh	Gradient	Proceedings		IEEE	Bangalore		
	Fidelity Model			proceedings.			
	for						
	Multiplicative						
	Gamma Noise						
	Removal						

(C) Books & Monographs

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Author(s)	Title of	Name of	Year of	ISSN/ISBN	doi		
	Book/Monograph	Publishers	Publication	Number			