

# **PROFILE**

**Nanjesh Bennur** B.E, M.Tech, (Ph.D)

**Karnatak State Committee Member-CSE Division (Elected)**  
Institution of Engineers IE – India

**Director, Indian Red Cross Society, Chikmagalur District (Elected)**

**Chairman, Youth Red Cross YRC, Chikmagalur District**

**Managing Director**

Selfypage Developers Pvt Ltd  
Pushpagiri Complex  
Beside SBI, Housing Board,  
KM Road, Chikkamagaluru-577102

**Assistant Professor and Research Coordinator** (Till February 2023)

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Adichunchanagiri Institute of Technology  
Jyothinagara, Chikmagalur-577102, Karnataka  
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Website: www.nbennur.in



## **Personal Information**

<b>Name</b>	: Nanjesh B R
<b>DOB</b>	: 07-06-1990
<b>Native Place</b>	: Bennur, Belur Tq, Hassan Dist, Karnataka
<b>Marital Status</b>	: Married
<b>Nationality</b>	: Indian
<b>Hobbies</b>	: Collecting old coins, playing basketball
<b>Languages Known</b>	: English, Kannada and Hindi.

## **Teaching Experience**

**10 years as an Assistant Professor in Department of ISE, AIT, Chikkamagalur, Karnataka**

## Areas of Research

My areas of research are parallel computing and image processing.

**Parallel computing:** Development of common parallel programming platform for MPI and PVM, Performance analysis of parallel applications over cluster based architecture. Optimization of parallel computation using various algorithms, techniques etc.

**Image processing:** Development of fuzzy logic based edge detection algorithms and study on real time applications of Fuzzy logic based edge detection such as traffic control system, plant disease detection, detection of blood vessels etc. and also optimization of fuzzy logic based edge detection using various filtering techniques.

## Roles in International / National Conferences, Technical Events namely:

- Invited as the **Chief Guest** and also **chaired** an International conference on Advanced Computer Theory & Engineering (ICACTE) 2014 held in Goa on 18<sup>th</sup> May 2014 organized by Institute for Research and Development (IRD) India.
- **Session Chair** at First International Conference on Recent Advances in Science & Engineering (ICRASE) 2014 held in Bangalore on 30<sup>th</sup> and 31<sup>st</sup> October 2014.
- **Session Chair** for DELTA National Conference 2015 organized by GMIT, Davangere, Karnataka on 4<sup>th</sup> September 2015.
- **Invited for Technical talk** on “**Publication platforms & Metrics**” at International Conference on Emerging Trends in Science and Technology for Engineering Systems organized by S.J.C Institute of Technology, Chickballapura, Karnataka on 11<sup>th</sup> and 12<sup>th</sup> January 2018.
- **Keynote Speaker and Chief guest** at Two Days National Technical Fest & Project Symposium organized by Department of CSE, Rao Bahdur Y Mahabaleswarappa Engineering College, Bellari, Karnataka on 2<sup>3rd</sup> and 2<sup>4th</sup> March 2018.
- **Invited talk on “Education System”** at College Annual Function, Girish Memorial PU College, Chanrayapatna, Hassan, Karnataka, 20<sup>th</sup> April 2018.
- **Advisory Committee Member** for Second International Conference on Emerging Trends in Science and Technology for Engineering Systems organized by S.J.C Institute of Technology, Chickballapura, Karnataka on 17<sup>th</sup> and 18<sup>th</sup> May 2019.
- **Advisory Committee Member** for Third International Conference on Emerging Trends in Science and Technology for Engineering Systems organized by S.J.C Institute of Technology, Chickballapura, Karnataka on 19<sup>th</sup> July 2020.
- **Advisory Committee Member** for Second International Conference on Topical Transcends in Science & Technology and Management (ICTTSTM) organized by Sai Vidya Institute of Technology, Bengaluru, Karnataka on 12<sup>th</sup> July 2020.

## **Roles in International / National Journals:**

- Reviewer for IETE Journal of Research, Taylor & Francis Co.
- Reviewer for Journal of Computational & Theoretical Nanoscience
- Reviewer for Bentham Journal: Recent Patents on Engineering
- Managing Editor for IIP Proceedings

## **Grants Received**

- Received grant of Rs. 40000 / - from Vision Group of Science & Technology (VGST: 2-13-14), Government of Karnataka for the work titled “Novel Method for Optimizing the Vehicle Edge Detection in Night Captured Noisy Images of Traffic Signal Cameras” and also received grant of Rs. 3000 for the same by KSCST, Government of Karnataka
- Received grant of Rs. 40000 / - from Vision Group of Science & Technology (VGST: 2015-16), Government of Karnataka for the work titled “Plant Disease Detection & Solution Providing System for Framers”.
- The true effort of three years in parallel computing field by my guide Sampath sir and me, made us to feel proud of ourselves, Dept. of IS & E, AIT, CKM got VGST Grant of Rs. 20 lakhs by Government of Karnataka for the proposal submitted by Sampath sir, titled "Development and Analysis of MPI & PVM for high speed computation using cluster architecture".
- Project titled “Novel Approach For Extraction Of Blood Vessels Using Morphology And Filtering Techniques” done by Mohan L, Mithan A K, Niketh S A, Kantharaja S guided by Nanjesh B.R, selected for Karnataka State Council For Science And Technology 38th series of student projects programme : 2015-2016 and received the grant of Rs.3,000/-:
- Project titled “Content based image retrieval system for Automatic object identification in war field using GLCM” done by Meghana M.S, Precilaa Monisha, Manava and Shrinidhi, guided by Nanjesh B.R, selected for Karnataka State Council For Science And Technology 39th series of student projects programme : 2016-2017 and received the grant of Rs.4,000/-.
- Received Rs.5,000/- for project titled “Dependency Analysis of Content Based Image Classification on Histogram Quantization” from VTU under Financial Assistance 2017-18.

## Awards Received

- Project titled Virtual Dressing Room using Augmented Reality is awarded Best Project of the Year in 45th Series of Student Project Programme: 2021-22 by Karnataka State Council for Science & Technology, Govt. of Karnataka
- **“IJARBEST AWARDS 2018 for Academic Performance & Research Activities”**, International Award issued by IJARBEST Scientific Publishers, Asia Pacific during April 2019.
- Obtained an award named **Seminar Winner** in the national level technical event organized by Computer Society of India at AIT College, Chikkamagalur during June 2013.
- Obtained 294 marks out of 300 (98%) in M.Tech final semester, became the highest scorer and received the Merit Certificate (Thankful to my guide Dr. Sampath S, Professor and Head, IS & E, AIT, Chikmaglaur)

## Books Published

Type	Title	Author	ISBN Number	Publisher
Text Book	“Mobile Application Development (MAD)”	Nanjesh B.R Deepesh R Dr. Niranjan Murthy	ISBN 978-93-87396-05-0 First Edition, 2019	Advance Academic Publishers
			ISBN 978-05-78817-57-6 Second Edition, 2021	Iterative International Publisher
Text Book	C Programming for Problem Solving	Nanjesh B.R	ISBN 978-93-84698-51-5 First Edition, 2018	Advance Academic Publishers
			ISBN 978-19-54461-27-7 Second Edition, 2020	Iterative International Publisher
Text Book 2017	Programming in C & Data Structures	Nanjesh B.R Dr. G Anjan Babu and Dr. C.K Subbaraya	ISBN 978-93-84935-70-2 <b>Prescribed as reference book for 2<sup>nd</sup> Sem, MCA, Ramaiah Institute of Technology (MSRIT) Bengaluru and Karpagham University, Tamil Nadu for MCA</b>	Excellent Publishers, New Delhi, First Edition

Manual 2016	“Establishing cluster Based Parallel Computing Environment”	Dr. Sampath S and Nanjesh B.R	ISBN 978-93-84935-52-8	Excellent Publishers, New Delhi
Hand Book 2015	How to write a technical paper	Dr. Sampath S and Nanjesh B.R	-	-

### Patents Published

Patent applied title	Date of filing Application	Application Number	Country	Year	Publication Date
Automatic Hammer <b>Published</b>	01/04/2019	316293-001	India	2019	31/05/2019
Electrocardiogram Remote Monitoring System Based on Artificial Intelligence <b>Granted</b>	26/08/2020	2020101682	Australia	2020	26/08/2020
A System and Method for assisting driving in a ghat region <b>Published</b>	22/12/2020	020041055859	India	2021	01/02/2021

### FDP / Workshops / Seminars attended

- Workshop on Applications of Mathematics in Engineering on 31<sup>st</sup> January 2018 at AIT, Chikkamagaluru.
- Faculty Development Program on Big Data Analytics conducted by Tata Consultancy Services in May, 2016.
- Two day Faculty Development program on Programming in C and Data Structures organized by RNSIT, Bengaluru during 24-25 July 2015.
- One day Workshop on “Principles of Pedagogy for effective Instructions dissemination” Organized CSE Department, SJCIT, Chikballpura, Karnataka on July 19<sup>th</sup>, 2014.

- Exhibited “Novel Approach in Teaching Cluster Computing using Desktop PCs” JNANA- VIJNANA MELA-2014, Project Exhibition held on 19<sup>th</sup> and 20<sup>th</sup> February 2014 at Sri Adichunchanagiri Mahasamsthana Math, BG Nagar, Karnataka.
- Faculty Development Program on Advance Software Engineering and Cloud computing conducted by Tata Consultancy Services on 28<sup>th</sup> September 2013
- Training of Two weeks on Rational Application Development using Websphere software V6.0 conducted by IBM during July 2011.

### Research Papers Published

Published many research papers in the world’s topmost research papers publishers: IEEE eXplore digital library, Elsevier, Springer etc.

- Number of research papers published in International Journals: 09
- Number of research papers published in International Conferences: 12
- Number of research papers published in National Conferences: 03
- Number of papers presented in Conferences: 12 International & 6 National

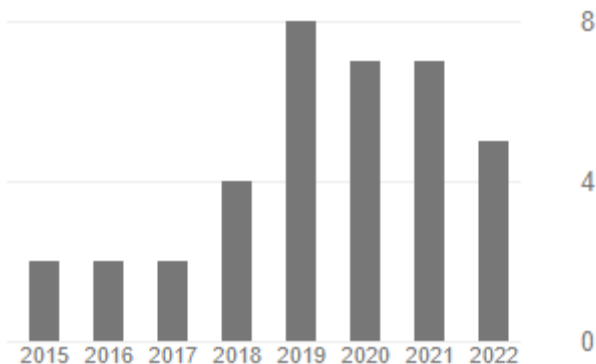
### Scopus Indexed papers 8

Scopus Author Id: 55811567100

Google Scholar ID: Y0ecnQkAAAAJ&hl

### Total Citations: 43 as per Google Scholar

	All	Since 2018
Citations	43	31
h-index	4	3
i10-index	1	1



## Research Papers & Presentation Details: 26

### 9 International Journals

- [1] Nanjesh B.R, “Performance Analysis & Evaluation of Parallel Applications using Cluster Based Parallel Computing Frameworks”, International Journal of Computer Science and Information Technology Research Excellence (IJCSITRE), V-2, I-1, January - February, 2012, **Impact factor: 2.89.**
- [2] Sampath S, Nanjesh B.R, “Evaluation of Parallel Applications Performance Dependency on RAM using PVM ,International Journal of Computer Science and Computer Networks (IJCSN), V-2, I-6, December, 2012, **Impact factor: 4.189**
- [3] Nanjesh B.R, “Multiple Nodes Based Analysis of Parallel Application’s Performance and its dependency on RAM”, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE),V-3, I-4 April, 2013, **Impact factor: 2.080**
- [4] Nanjesh B.R, “PVM based Cluster Computing for performance evaluation of parallel applications”, International Journal of Computer Science and Information Technology Research Excellence (IJCSITRE), V-3, I-2, March - April, 2013, **Impact factor: 2.89**
- [5] Nanjesh B.R, Sampath.S, Bharat Bhushan Sagar ,“Performance Evaluation and Comparison of Message Passing Interface and Parallel Virtual Machine” International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3 (1), pp 200-206, January 2013. **Impact factor: 2.08**
- [6] Sampath S, Nanjesh B.R, Bharat Bhushan Sagar, C.K Subbaraya, “Performance Comparison of Row per Slave and Rows Set per Slave Method in PVM based Parallel Matrix Multiplication”, International Journal of Research in Engineering and Technology (IJRET), Volume 02, Issue 12, Page no 248-253, Dec 2013 **Impact factor: 2.375**
- [7] Nanjesh B.R, “Optimization of fuzzy logic based edge detection of noisy images using filtering techniques”, International Journal of Advanced Electrical and Electronics Engineering (IJAE), V 3, I 2, August 2014, **Impact factor: 1.4**
- [8] Nanjesh B.R , “Quality improvement of night captured images using filtering techniques International” International Journal of Emerging Research in Management & Technology (IJERMT), Volume 6, Issue 5, May 2017 **Impact factor 2.34**
- [9] Nanjesh B.R, “Performance Dependency Analysis Of Fuzzy Logic Based Edge Detection On Membership Function”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Volume 5 Issue 1, Jnauary 2018. **Impact factor: 5.338**

### 12 International Conferences

- [1] Sampath.S, Bharat Bhushan Sagar ,Nanjesh B R “Evaluation of Parallel Application’s Performance Dependency on RAM using Message Passing Interface” International Conference on Advance Engineering & Technology (ICAET-2013) held at Mysore, Karnataka, India on 27<sup>th</sup> January 2013.

- [2] Sampath.S, Bharat Bhushan Sagar ,Nanjesh B R “Performance Evaluation and Comparison of MPI and PVM using a Cluster Based Parallel Computing Architecture” **IEEE International Conference on Circuits,Power and Computing Technologies** (ICCPCT-2013), Noorul Islam University, Kumaracoil, Kanyakumari District, Tamilnadu State, India on 21<sup>st</sup> to 22<sup>nd</sup> March 2013
- [3] Sampath.S, Bharat Bhushan Sagar ,C.K.Subbaraya,Nanjesh B R “Performance Evaluation of Parallel Applications using MPI in Cluster Based Parallel Computing Architecture” **Elsevier** International Conference on „Emerging Research in Computing,Information,Communication and Applications“, Nitte Meenakshi Institute of Technology, Bangalore on 2<sup>nd</sup> and 3<sup>rd</sup> August 2013.
- [4] Nanjesh B.R, “MPI based Cluster Computing for parallel applications”, IEEE International Conference on Information and Communication Technologies (ICT) April, 2013 N.I Centre for Higher Education, Tamilnadu
- [5] Nanjesh B.R, Parallel Merge Sort Based Performance Evaluation and Comparison of MPI and PVM IEEE-International Conference on Information and Communication Technologies (ICT), N.I Centre for Higher Education, Tamilnadu, April, 2013
- [6] Sampath S, Bharat Bhushan Sagar, Nanjesh B.R , C.K Subbaraya, “Performance Optimization of PVM based Parallel Applications using Optimal Number of Slaves”, at **IEEE** International Conference on Reliability, Optimization and Information Technology (ICROIT) on *February 6<sup>th</sup> - 8<sup>th</sup> , 2014* Manav Rachna International University, Faridabad, Haryana, India.
- [7] Sampath S, Bharat Bhushan Sagar, Nanjesh B.R, C.K Subbaraya, “Development of Common Parallel Programming Platform for MPI and PVM”, **Springer** International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems (ICAEES- 2014) which will be held during 23<sup>rd</sup> & 24<sup>th</sup> of April 2014 at Noorul Islam Centre for Higher Education, Kumaracoil,Kanyakumari District, Tamilnadu State, India.
- [8] Nanjesh B.R , “iAIML based chatterbots for Big campus”, International Conference on Advanced Computer Theory And Engineering (ICACTE) 18th May 2014 Institute of Research and Development (IRD) India, Goa
- [9] Nanjesh B.R, “Deflection Analysis At Uniformly Varying Load Using Parallel Virtual Machine”, IEAE Second International Conference on Advances in Engineering (ICAE-2016), 7<sup>th</sup>, October, 2016, Bengaluru.
- [10] Nanjesh B.R, “Plant Disease Analysis using Histogram Matching based on Bhattacharya’s Distance Calculation”, **IEEE** International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016 4th March, 2016 DMI College of Engineering, Chennai.
- [11] Nanjesh B.R, “Novel Approach for Extraction of Blood Vessels using Morphology and Filtering Techniques”, **IEEE** International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016 4th March, 2016 DMI College of Engineering, Chennai.
- [12] Sampath S; Sanjay M; Numan Ahmed; Adi Bhagavath; Nanjesh B R Decentralized Digital Identity Wallet using Principles of Self- Sovereign Identity Applied to Blockchain, 2022 **IEEE** 7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE), Mangalore



**3 National Conferences papers are published and 3 National Conferences papers are presented**

- [1] Nanjesh B.R, "Evaluation of MPI and PVM based parallel applications performance dependency on Broadcast operation", National Conference on Electronics, Computers & Computation (NCECC), 10th October 2013, B.M.S Institute of Technology, Bangalore
- [2] Nanjesh B.R, "Performance Evaluation and Comparison of MPI and PVM using Merge Sorting", National Conference on Emerging Trends in Engineering and Management (NCETEM) 1st & 2nd March, 2013 P.E.S Institute Of Technology & Management, Shivamogga.
- [3] Nanjesh B.R, "Evaluation of Parallel Merge Sorting Performance Dependency on RAM using Message Passing Interface", National Conference on Computing Technologies & Trends, RL Jalappa Institute of Technology, Doddaballapur, Bengaluru, 20th March, 2013
- [4] Nanjesh B.R, "Edge detection of gray images using fuzzy rule based technique", National Conference on Emerging Trends in Information and Security (NCEIS) 20th April, 2013 S.J.C Institute Of Technology, Chikballapura **(Only presentation)**
- [5] Sampath S, Nanjesh B.R, "Evaluation of Parallel Merge Sorting Performance Dependency on RAM using Parallel Virtual Machine", National Conference on Emerging Trends in Electronics, Communication and Computational Intelligence, 20th March 2013, Vivekananda Institute of Technology, Bengaluru **(Only presentation)**
- [6] Nanjesh B.R, "Mechanism to Treat Intentionality in Chatterbots using iAIML" National Conference on Emerging Trends in Information and Security (NCEIS) 20th April, 2013 S.J.C Institute of Technology, Chikballapura **(Only presentation)**

**(NANJESH BR)**