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Prof. Dr. B. MEENAKSHI SUNDARAM – M.Sc., M.Tech., PhD (Computer Science)

Job Purpose: Lead and drive academic excellence within an autonomous system of colleges / universities through innovative teaching, curriculum development, faculty enrichment, and strategic industry partnerships.

Professional Qualification Development Activities Undertaken in India and Overseas

- Developed and aligned Bachelors and Masters Programs in science and engineering technologies with national and international qualifications standards.
- Created and implemented Program Objectives (PO), Program Educational Objectives (PEO), and Program Specific Objectives (PSO), along with a credit-based curriculum structure.
- Led skill development initiatives for specialized courses, identified core and elective streams, and aligned outcomes with international benchmarks.
- Managed resources, engaged in knowledge exchange activities, oversaw curriculum design, and contributed to national and international academic debates and strategies.

Academic Qualifications

- PhD (Computer Science), 2017, R & D Cell, Bharathiar University Coimbatore, Tamil Nadu, India.
- M.Tech – Information Technology, 2009 - 82%, First class with Distinction, Manonmaniam Sundaranar University, Tirunelveli.
- Master of Philosophy (M.Phil) in Computer Science, 2006 – First Class from Madurai Kamaraj University, Madurai.
- Master of Science (MSc) in Computer Science, 1998 – 81% - First Class with Distinction, from Madurai Kamaraj University, Madurai.
- Bachelor of Science (BSc) in Physics with Electronics, 1996 – 84% - First Class with Distinction, Madurai Kamaraj University, Madurai.
- HSC from State Board, 1993, Tamil Nadu – 82% - First Class with Distinction.
- SSLC from State Board, 1991, Tamil Nadu – 86% - First Class with Distinction.

Professional Qualifications / MOOC courses (IIT Kharagpur, IIT Madras)

- Amateur Station Operator Certificate (ASOC) Grade-B Government of India, Ministry of Communication, Monitoring Organization, Southern Regional HQ, India.
- Higher Diploma in Business Administration (HDBA) Certification, Ultra Computer Academy, India.
- Certification in Linux System Administration, NIIT, India.
- Membership in Institution of Engineers, Calcutta, India (from March – 2011)
- IEEE Professional Membership
- NPTEL Online Certification on Problem Solving Through Programming in C from IIT Kharagpur, Jan-Apr 2019
- NPTEL Online Certification on Joy of computing using Python from IIT Madras, Jan-Apr 2019 (12 Weeks)
- NPTEL Online Certification on Data science for Engineers from IIT Madras, Jul-Sep 2019 (8 Weeks)

Trained from Professional Organizations (Teaching & Research)

- Wipro mission 10X – Integrated Innovations and High Performance Teaching Training, India.
- Infosys Softskills Training, Infosys Mysore, India
- IBM – Rational Unified Product Training, India.
- Train the Trainers for Marine Engineering Programs conducted by DG Shipping, New Delhi. India.
- Train the Trainers Training from RPA – Automation Anywhere Enterprise, Bangalore, India.

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Professional Work Experience (Teaching / Administration & Research) – 25 Years

S.No	Designation	Employer	Period	Responsibilities
1	Professor and Controller of Examinations	T. JOHN College, T. JOHN Group of Institutions, Bangalore	2025 Jan – till date	Administering Examinations, Results Processing and ensuring excellence in academic quality. Teaching PG computing programs.
2	Professor	Department of MCA/CSE/AIML New Horizon College of Engineering, Bangalore	2018 Oct – 2024 Dec	Teaching UG & PG engineering courses, R& D activities, Student Publication work guidance, Board of Studies and curriculum design, Board of Examination, ACM member.
3.	Academics Program Manager and Exam Controller	SYSCOMS College, Abu Dhabi, UAE	2016 June – 2018 Aug	Program Manager - Academics and Exam Controller, Teaching UG & PG programs.
4.	Asst Prof (Senior Grade) (AGP – 8000)	Karunya (Deemed) University Coimbatore	2011 Jun – 2016 May	Teaching, Curriculum preparation, Course Coordination for B.Tech and Master's Programs and placement coaching.
5.	Asst. Prof	PSY Engg College, Sivagangai.	2010 July– 2011 May	Teaching B.Tech and M.E programs.
6.	Asst. Prof/ Sr. Lecturer	SIT, Madurai	2006 Sept– 2010 Jun	Teaching M.Sc 5-years Integrated, MCA, Exam administration, Quality auditing and Placement Coaching in Technical and Aptitudes.
7.	Faculty & Simulator In charge	R.L Nautical Sciences College, Madurai	2006 Apr– 2006 Aug	Software Simulation Project Trainer for a Marine Programs in Nautical Sciences.
8.	Sr. Lecturer	SVN College, Madurai.	2005– 2006 Mar	Teaching UG, PG Programs in computer science/IT.
9.	Head of Academics &Chief Internal Verifier	SYSCOMS College, Abu Dhabi, UAE.	2001 - 2004	Teaching & Administering HND/HNC Programs affiliated to SQA, UK. Honors Degree in UG and PG courses with University of Portsmouth, NCC Education, UK respectively.
	Faculty		1998 Dec – 2001 Dec	
10.	Faculty	Madura College, Madurai	1998 Jul -Nov	Teaching UG and PG computer science programs
11.	Research Trainee	CABS, DRDO, Bangalore India.	1998 Jan- Jun	Research Project Trainee - Developing software for the DRDO TEST RIG Simulator projects

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International Academic Collaboration and Program Administration Experience

Teaching and administering computing and other specialized programs in partnership with the Scottish Qualifications Authority (UK), University of Portsmouth (UK), NCC Education (UK), MOHE (UAE), Anna University, Karunya University, BITS, Madurai Kamaraj University, and VTU affiliated colleges in India

Consultancy Services (Part-Time)

- Professional Technical Writer (2006 – 20011) in Business Computing Networking Solutions, Madurai.
- Faculty with T.I.M.E (All India Institute), Madurai from (2005 – 2012) for TANCET, NIMCET, CAT and MAT and Campus Recruitment preparatory exams to teach Logical Reasoning and aptitudes.
- Research projects consultancy (2011 – 2015) with Eminent Technologies, Madurai.
- Freelance Trainer (online) – 20019-2024 for overseas colleges and Institutions in UAE.

Research Paper presented in National / International Conferences (IEEE/Scopus conferences 20) listed some of them

- Information Retrieval using Fuzzy ontology with thematic approach, in second National conference ENIAC ’09 held at National Engineering College, Kovilpatti.
- Database Security using Ontology – presented in a National Level Conference conducted by Karpagam college of Arts & Science, Coimbatore, India.
- Multilingual Fuzzy Ontology Linguistic classifier - presented in a National Level Conference conducted by Sri Krishna college of Engineering, Coimbatore, India.
- Nonlinear Ontology Life cycle development model - presented in a National Level Symposium conducted by PSG Tech, Coimbatore, India.
- Bayesian PR-Ontology for Page Ranking Analysis - presented in an International Conference conducted by Dept of CS & IT, Sethu Institute of Tech, India.
- Assessing Enterprise Security Infrastructure Framework – a research for a change in organizational policy, presented on IT conference jointly conducted by University of Portsmouth, UK and Syscoms Information Technology.
- Significant statistical measures in Machine learning analytical modelling, National conference on trends in statistics and applications, Feb 25, 2019, PG & Research Department of Statistics, Government Arts college, Coimbatore.
- Preprocessing methods for imbalanced datasets in classification, Sixth National conference on Trends in advanced computing and applications, 18th – 19th March 2019, Adhiyamaan college of engineering, Hosur.
- Delivered the workshop on “Power BI Analytics, 20th March 2019 at Technology Learning centre, Department of Computer Applications, Mahendra Engineering College, Namakkal, Tamilnadu, India.
- Organized and conducted the FDP on “Deep Learning with Tensorflow”, 12th April 2019, Department of Computer Applications, NHCE, Bangalore.
- A roadmap for application integration using Cloud IoT platform, 19th Dec 2019 presented in an International Conference, NHCE, Bangalore.
- Exponential power of digital innovation rewrites the academic rule book, MRTM – 2023 presented in an IEEE conference, NHCE, Bangalore.

Research Supervision & Mentoring

- Supervising five research scholars as co-supervisor in the Doctoral Program for PhD in Computer Science at Gordon City University, Bangalore, India.
- Serving as an external supervisor for one candidate at VTU.
- Mentoring over 100 undergraduate and postgraduate students' projects.

Research Identifiers

- Scopus ID: 57575250400

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- ORC ID: 0000-0002-9344-8183
- VIDWAN ID: 170411
- Google Scholar: https://scholar.google.co.in/citations?user=zDF7mtoAAAAJ&hl=en (h-Index – 4)

Publications in National / International Journals (25) – listed some of them

NPRO: Nonlinear PR-Ontology Lifecycle Development. I-manager's Journal on Software Engineering, Jayasri D, Murugeswari P, Vijayalakshmi S and Meenakshi Sundaram B (2007), 1(3), Jan-Mar 2007, Print ISSN 0973- 5151, E- 2230-7168, pp. 17-23.

"Dual Tree Complex Wavelet based Regularized Deconvolution for Medical Images" published by ICGST (International Congress for Global Science and Technology), GVIP, Volume (7), Issue (1), April- 2007.

"Cross Domain Composition of Web Service Workflows using a Provenance Ontology with an automated Re-planning", B.Meenakshi Sundaram, Dr. D. Manimegalai (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (3) , June-2015, 2750-2753. SCI verse SCOPUS Indexed.

"Fuzzy-XDDS: A Fuzzy Based Cross-Domain Services Matchmaker for Semantic Web Services", B.MeenakshiSundaram, Dr. D. Manimegalai, International Journal of Engineering & Technology, IJET- IJENS, Vol:15 No:03. 155503-4949-IJET-IJENS © June 2015 IJENS. SCOPUS Indexed.

Skill acquisition for enhancing employability through multiple learning experience instructional strategy (MLEIS) – towards ensuring inclusive and equitable technology education, Dr. Ajitha Nayar, V.Srikripa, Dr. B. Meenakshi Sundaram, European journal of educations studies, Volume 4 | Issue 8 | 2018 June, OAJI Indexed.

Techniques for Handling Imbalanced Datasets Classification: A Review, R. Prema, Dr. MeenakshiSundaram, Dr. A.P. Nirmala, International Journal of Scientific Research in Computer Science Applications and Management Studies, ISSN 2319 – 1953, Volume 8, Issue 2, March 2019.

An Analysis on Security Threats in Cloud Computing, Dr. A. P. Nirmala, R.Prema, Dr. B. Meenakshi Sundaram, International Journal of Information and Computing Science, ISSN NO: 0972-1347, Volume 6, Issue 3, March 2019. Thomson Reuters/ SCOPUS – Indexed journal.

A holistic redesign of web elements using CATWOE analysis, Dr. R. Jayakumar, Dr.B. Meenakshi Sundaram, IJICS JOURNAL, ISSN: 0972-1347, VOL 6, ISSUE 6, JUNE 2019 PAGE NO: 391-395, UGC Approved Journal.

"A Roadmap to Application Integration using IoT Cloud Platform", Dr. B. Meenakshi Sundaram, Dr. Thirukumaran, IJPR, Hampstead Psychological Associates, SCOPUS, Vol 24/Issue 05,2020/ISSN:1475-7192/Pg.no 6992-6996.

"A meta-analysis on the security control measures in cloud migration", SP. Sreeja, Dr. B. Meenakshi Sundaram, IJPR, Hampstead Psychological Associates, SCOPUS, Vol 24/Issue 05,2020/ISSN:1475- 7192/Pg.no 6943-6947.

"Semantic Interoperable EHR mapping with syndromic surveillance to anticipate regional outbreak", B. Meenakshi Sundaram, Thirukumaran, Asha. V, K.G. Madhwaraj, , International Journal of Grid and Distributed Computing IJGDC, Vol. 13, No. 2, (2020), pp. 1134 –1147, ISSN: 2005-4262, pp 1126 –1133, Published on 01-11-2020. – Web of Science

"Feature based visual analysis of Indian Railway station data with statistical approach for train delay prediction", Asha. V, Heena Gupta, B. Meenakshi Sundaram, International Journal of Future Generation Communication and Networking IJFGCN, Vol. 13, No. 4, ISSN: 2233-7857, (2020), pp. 2507–2512, Published on 01-11-2020. – Web of Science.

DRS-UNET: A Deep Learning Approach for Diabetic Retinopathy Detection and Segmentation from Fundus Images R. S. Gound; B. M. Sundaram; S. K. B V; P. A. Azmat; M. N. Ul Habib; A. Garg, Dept. of CSE, New Horizon College of Engineering, Bangalore, India2023 4th International Conference for Emerging Technology (INCET)2023979-8-3503-3575- 010.1109 /INCET57972 .2023. 10170686 https://ieeexplore.ieee.org /stamp/stamp.jsp?arnumber=10170686

An Experimental Analysis on Mitigating the Effects of Malicious Nodes in a Federated Learning SystemB. Chempavathy; S. K. Shibi; B. M. Sundaram; S. Kotturi; S. B. ReddyCSE department, New Horizon CollegeOf Engineering, Bangalore, India 2023 2nd International Conference for Innovation in Technology (INOCON)2023979-8-3503-2092-310.1109 /INOCON57975.2023.10101043 https://ieeexplore.ieee.org/ stamp/stamp.jsp?arnumber=10101043.

Fall Detection Among Elderly Using Deep LearningB. M. Sundaram; B. Rajalakshmi; R. K. Mandal; S. Nair; S. S. Choudhary Department of Computer Science and Engineering, New Horizon College of Engineering, Bangalore, India; 2023 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE)2023978-1-6654-9260-710.1109 /IITCEE57236.2023.10090887 https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10090887

An Explorative Analysis of IoT Security on Federated Intelligent NetworksC. B; B. M. Sundaram; S. B. Reddy; S. S. K; S. Kotturi CSE department, New Horizon College Of Engineering, Bangalore, India; 2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)2022978-1-6654-5499-510.1109/SMARTGENCON56628.2022.10083746 https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10083746

Envisioning Reliable Diagnosis of Diabetic Retinopathy using U-Net ArchitectureS. P. S; B. M. Sundaram; P. A. Azmat; A. Garg; M. N. Ul Habib Department of CSE, New Horizon College of Engineering, Bangalore, India; 2022 International Conference on Smart Generation Computing, Communication and Networking (SMARTGENCON)2022978-1-6654-5499-510.1109/SMARTGENCON56628.2022.10084048 https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10084048

Analysis of the recognition and expression of emotions by people with ASD: A comparative studyN. Uma; B. M. Sundaram; B. A. Rakshitha; S. B. Krishnan New Horizon College of Engineering, Bangalore, India; 2022 5th International Conference on Contemporary Computing and Informatics (IC3I)2022979-8-3503-9826- 710.1109 /IC3I56241.2022.10072920https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10072920

Interactive VBE and IPSL Aid for the Disabled using a GRU-based ModelB. M. Sundaram; B. Rajalakshmi; K. K. Kumar; J. J. Stephen; J. Mukundh Department of Computer Science and Engineering, New Horizon College of Engineering, Bangalore; 2022 4th International Conference on Circuits, Control, Communication and Computing (I4C)2022979-8-3503-9747-510.1109/I4C57141.2022.10057709 https://ieeexplore.ieee.org/ stamp/stamp.jsp?arnumber=10057709

Disaster Relief Compensation Computational Framework, B. M. Sundaram; B. Rajalakshmi; B. A. Singh; R. S. Kumar; R. Arsha, Dept of Computer Science & Engineering, New Horizon College of Engineering, Bangalore; 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)2022978-1-6654- 0052-710.1109/ICAIS53314.2022.9742829https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9742829

Face Recognition based Automated Remote Proctoring Platform S. N; B. M. Sundaram; V. N. Kumar; S. J; H. SComputer Science and Engineering, New Horizon College of Engineering, Bangalore, India; 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)2022978-1-6654-0052-710.1109/ICAIS53314.2022.9743134https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9743134

Survey of latest technologies on Decentralized applications using BlockchainN. Sasikala; B. M. Sundaram; S. Biswas; A. Sai Nikhil; V. S. RohithDepartment of Computer Science, New Horizon College of engineering, Bangalore, India; 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)2022978-1-6654-0052-710.1109/ICAIS53314.2022.9742768 https://ieeexplore.ieee.org/stamp/

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stamp.jsp?arnumber=9742768

Books/Book Chapter (2)

Chapter: Medical Tourism & IOT, Shanlax Publications, chapter-5, ISBN: 978-81-950884-0-9, July 2021,India.
Book: Operating System Essentials, ISBN: 978-93-5416-875-8, 30/12/2020, India.

Professional Development: Workshops and Seminars Attended (25) – listed some of them

- Attended the DRDO sponsored National Seminar on "Recent Trends in Knowledge Engineering and Machine Intelligence" held at Sethu Institute of Technology, Kariapatti.
- Attended a ONE day technical seminar conducted by HCL CDC held at Madurai
- Attended an AICTE - ISTE sponsored short term training programme on "Semantic Web Technologies" held at Sri Krishna College of Engg & Tech, Coimbatore.
- Attended and participated a Second National Seminar on Research issues in Digital Image Processing held at MEPCO SCHLENK ENGINEERING COLLEGE, Sivakasi.
- Attended and participated a National level seminar on "Innovative Soft Computing" held at Fatima College, Madurai.
- Attended and participated an "Object Oriented Analysis and Design using UML with essential or Rational Software architect" course (CC: DEV396) conducted by Sethu Institute of Technology, Kariapatti.
- Attended a Research Induction Programme held at Sethu Institute of Technology, Kariapatti. Attended a Knowledge Engineering workshop organized by Dept of IT, NEC, Kovilpatti.
- FDP conducted by IBM titled UML using Rational Rose enterprise edition at IT department, SIT.
- Attended a Middleware Technologies workshop organized by Dept of CSE in KLN Information Technology, Madurai.
- Attended a FDP on Blockchain technologies, New Horizon College of Engineering, Bangalore.
- Attended a Workshop on Brainstorm of Good practice in Geotechnical Engineering on 27th Oct 2018, NHCE, Bangalore.
- Attended a National seminar on Machine Learning on 29th Nov 2018, Jyoti Nivas College Autonomous, Bangalore.
- Attended an FDP on VGST sponsored Data Acquisition and Control Systems for space applications, 17-20 Dec 2018, NHCE, Bangalore.
- National Seminar on Data Mining and Machine Learning, Sengamalathayar Educational Trust, Mannargudi, Tamilnadu, India on 29th Jan 2019. (Presented an invited talk for 2 full sessions)
- Organized an FDP on Deep Learning with Tensor Flow (A hands-on session) on 12th April 2019, Department of Master of Computer Applications, New Horizon College of Engineering, Bangalore.

Interests & Current Research

Interests: Knowledge Management & Visualization, Semantic Web, Web Services – functional and QoS measures, Machine Learning, Robotic Process Automation and Data Science, Deep Learning with Neural Networks.

Special Area of Interests to Teach & Research Guide

Software Engineering and Business Intelligence
Machine Learning, Data Science, Soft Computing,
Advanced Computer Architecture, IOT essentials,
Cyber Security Essentials and Cloud Management

Patents Applied/Filed (3)

NOVEL SYSTEM, METHOD OF SMART HANDY SELF PROTECTION
DEVICE: SPRAY/TASER "PARITRAN"
Application Number: 202141027648, E-5/2173/2021- CHE, Intellectual Property India, Government of India, Chennai.

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https://scholar.google.co.in/citations?user=zDF7mtoAAAAJ&hl=en

Awards Received

- Certificate of Excellency in Academics from Syscoms Information Technology – 2000-2004, UAE.
- Certificate of Excellency in Academics from SVN College – 2005-2006 with Silver Medal, Madurai, India.
- Academic Excellency on Consistent Result award from the year 2006 – 2010, Sethu Institute of Technology, Kariapatti. Madurai, Tamil Nadu, India.
- Certificate of Appreciation is awarded by IIT Madras, Swayam-NPEL, as Mentor for the NPTEL online certification course "Joy of Computing using Python" during Jan – Apr 2019.
- ELITE SILVER received on NPTEL Online Certification for successful completion of the course Problem
- Solving Through Programming in C from IIT Kharagpur, Jan-Apr 2019 (12 Weeks)
- ELITE SILVER received on NPTEL Online Certification for successful completion of the course Joy of computing using Python from IIT Madras, Jan-Apr 2019 (12 Weeks)
- ELITE received on NPTEL Online Certification for successful completion of the course Data science for Engineers from IIT Madras, Jul-Sep 2019 (8 Weeks)
- NPTEL Mentor awards (IIT Madras) continuously from 2019 till 2023

Industry Experiences

Research Project Trainee in CABS (1997 Dec – May 1998), DRDO, Bangalore, India.

References (India & Abroad)

1.	**Dr. D. Jayasri, Dean Academics, Ultra College of Engg. Madurai, TamilNadu, India. Jaysri6@yahoo.co.in Mob: 9942579797**	**2.**	**Dr. Shenin Hassan, Specialist Higher Education, Inspection Directorate, Ministry of Education, UAE Mob: +971-55-6635077**
3.	**Dr. D. Manimegalai, Prof & Head, Dept. of Information Technology, National Engineering College, Kovilpatti, Tamil Nadu, India. megalai_nec@yahoo.co.in Mob: +91-9442636698**	**4.**	**Dr. B. Rajalakshmi, Prof & Head, Dept of Computer Science and Engineering, New Horizon College of Engineering, Bangalore, India. Email: hod_cse@newhorizonindia.edu Mobile: 98411711347**

Personal details:

Passport Number: N1987156	Marital Status : Married
Date of Issue: 11/08/2015	Spouse Name : V. Sri Ranjanee
Place of Issue: Madurai	Children : Girl -1 (Aparna Padmashri) , Boy -1 (Adharsh Vidyadhar)
Expiry Date: 10/08/2025	Email: bmsundaram@gmail.com Mob: +91-9943460520

Declaration: I affirm that all the above-mentioned information is true to the best of my knowledge

(B. Meenakshi Sundaram)

