

Name : Dr.N.SATHYA
Designation : Associate Professor
Department : Artificial Intelligence & Machine Learning
Qualification : M.Sc., M.Phil., Ph.D.
Experience : Teaching: 15 Years Industry: NIL
Area of Specialization(s) : Artificial Intelligence
Email (Official ID) : sathyan@drngpsc.ac.in



Research: 10 years

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Bharathiar University, Coimbatore.	2020
M.Phil.	Computer Science	Periyar University, Salem.	2007
MSc	Computer Science	Vels College of Science, University of Madras, Chennai.	2006
BSc	Computer Science	Holy Cross College, Bharathidasan University, Trichirapalli.	2003

Patents Published

Title of the Patent	Agency	Status	Date
A Smart vehicle running by renewable energy sources	Intellectual Property India	Published	25-Mar-2022
Artificial Intelligence Technique to automate the process of Steel Making	Intellectual Property India	Published	12-Aug-2022

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	-

M. Phil.	5	-

Book Publications

S.No	Title of Books/Chapter published	ISBN Number Proceeding	Name of the Publisher	Month & Year of Publication
1	E-Business and Cyber Laws Edition-II		red'shine PUBLICATION	May-22
2	Intelligent Automation Control for Scientific Research in Engineering Volume-I		SS PUBLISHING HOUSE	May-22
3	A Study on Safety Measure's in Ethical Hacking- Book Chapter		A Study on Safety Measure's in Ethical Hacking- Book Chapter	May-22

Research Publications (Indexed)

International

- Dr.N.Sathya and Dr.Gomathe Muthukumar, **Homomorphic Map Based Salt Encryption and Decryption for Secured Cloud Data Storage and Accessibility**, Dogo Rangsang Research Journal, Vol-10, Issue-12 ,No. 03,pp.1-8, December 2020, ISSN : 2347-7180. (UGC Care Group I Journal).
- N.Sathya, R.Frizilin and Dr.A.Muthukumaravel, **Feature Extraction Techniques Based On Color and Shape-A Survey Meta Heuristics Approach For A Class Of Supply Chain Optimization Problems**,Journal of Advanced Research in Dynamical & Control Systems, Vol. 9, No. 5 ,pp. 180-184, 2017,ISSN 1943-023X.(Indexed in SCOPUS).

- N.Sathya and Dr.A.Muthukumaravel, **Feed Forward Neural Networks For Shortest Path Routing In WSNs**, IEEE Conference (ID: 40353), Mar-17,pp. 2879-2883,ISSN 0973-7529(Indexed in SCOPUS).
- N.Sathya and Dr.A.Muthukumaravel, **Three Phase Hybrid AI-Heuristics for mTSP in Network Problems**, Journal of Advanced Research in Dynamical & Control Systems, Vol. 15 Special Issue, pp. 592-596,Oct-17,ISSN 1943-023X(Indexed in SCOPUS).
- N.Sathya and Dr.A.Muthukumaravel, **Two Phase Hybrid AI-Heuristics for Multiple Travelling Salesman Problem**, International Journal of Applied Engineering Research, Vol.12, No.22,pp. 12659-12664, 2017 ,ISSN 0973-4562(Indexed in SCOPUS).

National

- Dr.N.Sathya, B.S.Dev Prasad, S.Shankar and R.Prakash Raj , **A STUDY ON SAFETY MEASURE'S IN ETHICAL HACKING**, Book Title: Intelligent Automation Control For Scientific Research In Engineering – VOLUME I, ISBN NO: 978-939-0-95691-3, VOL 1/ISSUE 2/ MAY-22
- N.Sathya and Dr.A.Muthukumaravel and K.Sharmila, **Travelling Salesman Problem Using Improved Operation Research Techniques**, Journal of Information and Computational Science(JOICS),Vol. 9, Issue 11,pp 552-560, Nov-19, ISSN: 1548-7741(UGC approved)
- N.Sathya, D.Sabareeswari and K.Sharmila, **Meta Heuristics Approach For A Class Of Supply Chain Optimization Problems**, International Journal Of Innovative Research In Management, Engineering And Technology(IJIRMET), Vol. 2 Issue 7,pp 33-39, Jul-17 , ISSN (Online): 2456-0448,(GOOGLE SCHOLAR).
- N.Sathya and Dr.A.Muthukumaravel, **A Survey Of Travelling Salesman Problem Using Heuristic Search Techniques**, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE),Vol. 4, Issue 1, pp 847-851,Jan-16,ISSN(Online): 2320-9801,ISSN (Print): 2320-9798(GOOGLE SCHOLAR).
- N.Sathya and Dr.A.Muthukumaravel,**A Review Of the Optimization Algorithms on Travelling Salesman Problem**, Indian Journal Of Science and Technology (INDJST),Vol 8(29),pp. 1-4, Nov-15, ISSN (Print) : 0974-6846,ISSN (Online) : 0974-5645(Indexed in SCOPUS).
- N.Sathya, R.Velkumar and Dr.A.Muthukumaravel, **Web Service to Execute A Data mining Task**, International Journal of Latest Trends in Engineering and Technology (IJLTET), Vol. 3 Issue 1,pp 150-153,Sep-13, ISSN: 2278-621X(GOOGLE SCHOLAR).

Presentations in Conference

- **Robotic Process Automation incorporated with AI and CNC's**, National Conference on IoT for Agriculture Innovation and Environment Sustainability, Dr.N.G.P. Arts and Science College, Coimbatore, 25-Aug-22 and 26-Aug-22.
- **Two Phase Hybrid AI-Heuristics for Multiple Travelling Salesman Problem**,International Conference On Recent Trends In Computing Technology, Bharath University,Chennai,21-Apr-17.
- **Feed Forward Neural Networks for Shortest path routing in WSNs**, 4th International Conference on “Computing for Sustainable Global Development”, at Bharati Vidyapeeth's Institute of Computer Applications and Management, IEEE Conference ID: 40353, New Delhi, Mar-17.
- **A Survey of Travelling salesman problem using Optimization algorithms**, International conference on innovative technologies of Computing Sciences, Vels University, Chennai, Apr-15.
- **Using Operation Research Techniques to Solve the Travelling Salesman**, 5th International Conference on “COMPETENCY BUILDING STRATEGIES IN BUSINESS AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT”, Sri Ganesh School Of Business Management, Salem, Feb-16.
- **The State of Supply Chain Management**, 4th International Conference on Competency Building Strategies in Business and Technology for Sustainable development”, Sri Ganesh School Of Business Management, Salem, Feb-15.
- **A Review of the optimization algorithms on Traveling Salesman problem**, Second International Conference on Innovations in Contemporary IT Research, Quiademilleth college for women, Chennai, Feb-15.
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Participation in Conference

International

- **GPS Using Human Racking** ,International Conference On Recent Trends In Computing Technology, Bharath University, Chennai,21st Apr-17.
- **Meta Heuristics Approach For a Class of Supply Chain Optimization Problems**, International Conference On Recent Trends In Computing Technology, Bharath University,Chennai,21st Apr-17.

National

- **Election Prediction using Machine Learning in Python**, National Virtual Conference on Emerging Trends & Technologies in Information Technology(NCETTIT 2022), Vels University, 24-Feb-22.
- **Intelligence Techniques For Shortest Path Routing In Network Problems**,Emerging trends in Computer Science and Information Technology, Vels University, 21-Apr-16.
- **Ubiquitous Networking**, National Conference on Emerging Trends in Computer Applications and Management, Vinayaga Missions University, 30-Mar-11& 31-Mar-11.

Participation in Seminars

- Technical Seminar and Training Program on Security and Forensic Computing, Putra Intelek International college, Malaysia, 2-Jun-17.
- Research Tools and Techniques in computer science, Presidency College, Chennai, 5-Aug-14.
- One Day Seminar on Emerging Trends in Communication systems and Technologies, IEEE Communications Society, 09-Oct-12.
- The National Seminar on Changing Dynamics in Commerce, Information technology and Business Administration, Annai Velankanni's College Of Arts And Science, Chennai 23-Feb-11.

Participation in Workshop

- One day National level workshop on "Art of Writing Research Article and Journal Publications", Vels University, Chennai, 19-Mar-16.
- One day National level workshop on "MATLAB" ,HCL Career Development Centre in Bharath University, Chennai, 18-Mar-16.
- International Workshop on Mobile Application Design and Development for Android, Vels University, 29-Jun-15.
- National Level Technical Workshop on Network Simulator – 2 [NS-2], Bharath University, Chennai, 25-Mar-15.
- Emerging Tools of Mobile Technologies, Glister Technologies Solutions Private Limited, Bharath University, Chennai, Mar-15.
- R Tool, Loganatha Narayanasamy Government College, Ponneri, 05-Sep-14.
- Two week workshop on “Database Management Systems”, IIT Bombay, Vels University,Chennai,21-May-13 to 31- May-13.
- Two –day ISTE workshop, IIT Bombay, Vels University, Chennai,10-Nov-12 and 11-Nov-12.

- International Workshop on Research Methodology, Vels University, Chennai, 09-Aug-12.

Conference / Seminar / Workshop Organized

- Committee Member, National Conference on Faculty of Commerce, Dr.N.G.P. Arts and Science College, Coimbatore, 27-Feb-20.
- Committee Member, Emerging trends in Computer Science and Information Technology, Vels University, Chennai, 21-Apr-16.
- Certificate Committee Member, International conference on innovative technologies of Computing Sciences, Vels University, Chennai, Apr-15.

Participation in Faculty Development Programme

- One day workshop on Outcome Based Education (OBE). DR.N.G.P. Arts and Science College, Coimbatore, 04-Mar-23.
- Six days virtual international faculty development programme (FDP) on “Prominent challenges in computer vision and data intelligence. Navarasam arts and Science College for women, 26-Dec-22 to 31-02-22.
- Research Methodology and Pedagogy for Tertiary Education, Dr. N.G.P. Arts and Science College, Coimbatore, 15-June-21 to 21-June-21.
- Promoting Research and Innovation in HEI- Teacher’s Role, Sri Kanyaka Parameswari Arts and Science College for Women, Chennai, 27-Apr-21 and 28-Apr-21.
- Examinations in Wake of Covid-19, Patrician College of Arts and Science, Chennai, 08-May-2020.
- Data Science Approach for Industry and Research, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai, 02-May-2020.

Editorial/ Review Board Member

- Editor of the Book Chapter “Title: **INTELLIGENT AUTOMATION CONTROL FOR SCIENTIFIC RESEARCH IN ENGINEERING – VOLUME I**, ISBN NO: 978-939-0-95691-3, VOL 1/ISSUE 2/ MAY- 2022.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
International Association of Engineers(IAENG) Member ID: 108227	Life time	-

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Meritorious Achievement Award	Dr.N.G.P. Arts and Science College	2022
Best Senior Faculty from	Sri Karunanandar Charitable Trust	2021
Best Ph.D Thesis	Dr.N.G.P. Arts and Science College, Coimbatore	2020
Ph.D Awardee	Dr.N.G.P. Arts and Science College, Coimbatore	2020
Admission coordinator	Vels University, Chennai	2016