PATHIPATI SRIHARI

Curriculum Vitae

Education

2012 **Ph.D.**, *Andhra University*, Andhra Pradesh, .

2002 **M.S**, *University of Plymouth* , England,UK, .

2000 **B.Tech**, *Sri Venkateshwara University* , Andhra Pradesh, .

Experience

2004–2004 **Assistant Professor**, *GMRIT Institute of Technology* , Srikakulam district.

2004–2006 **Assistant Professor**, *GITAM Institute of Technology*, Visakhapatnam.

2006–2013 **Associate Professor and Head**, *DADI Institute of Engineering & Technology*, Visakhapatanam.

2013–present **Assistant Professor(Grade-I)**, *National Institute of Technology Karnataka*, Mangalore.

Honours and Awards

2021 **Fellowship**, *Institution of Engineers (India).*

2021 **Overall best Paper Award** , *(Academia) of 2021 IEEE CONNECT Conference, Bangalore.*

2021 **Best Paper Award of Track 9**, *(Women in Engineering at the IEEE CONECCT 2021.*

2021 **Best Paper Award of Track 18**, *Navigation and Surveillance in Aerospace at the IEEE CONECCT 2021.*

2013 **Fellowship** , *Institution of Electronic and Telecommunication Engineers (IETE.*

2013 **ACM Senior Membership**, *Association of Computing Machinery, USA.*

2013 **Man Engineer Award**, *IET Chennai Local Network Young Professionals.*

2013 **DA Rajan Promotional Award**, *IET Chennai Local Network Young Professionals.*

2010 **IEEE Asia Pacific Outstanding Branch Counsellor Award**, *Institution of Electrical and Electronic Engineers , USA.*

2010 **IEEE Senior Membership**, *Institution of Electrical and Electronic Engineers , USA.*

Dakshina Kannada ,Karnataka – 575025 – India

+91-9885049285 • *0824-2473515* • *srihari.js@gmail.com*

https://vidwan.inflibnet.ac.in/profile/54704

Orcid Id: 0000-0001-9168-2753

2009 **JNTU Kakinada Best Teacher Award**, *Institution of Electrical and Electronic Engineers , USA*.

2009 **JNTU Kakinada Best Researcher Award**, *JNTU Kakinada*.

Doctoral Theses Guided

2021 **Seven students are currently pursuing PhD under the guidance of Dr. Pathipati Srihari**.

2018 **Algorithms for Track Stitching and Un-Switching**, *National Institute of Technology Karnataka,Raghu J.*

2017 **Efficient Tracking Algorithms with Phased Array Radars in The Presence of Electronic Counter Measures**, *National Institute of Technology Karnataka,G N Satapathi*.

Membership in Professional Bodies

- 2013 Association of Computing Machinery (ACM),Senior Member
- 2011 Indian Society of Technical Education (ISTE), Life member
- 2011 IEEE Aerospace and Electronic Systems Society, Senior Member
- 2011 Indian Science Congress Association,Life member
- 2011 Acoustical Society of India,Life member
- 2011 Cryptographical Society of India, Life member
- 2010 Institution of Electrical and Electronic Engineers Inc (IEEE), USA Senior Member
- 2007 IEEE Signal Processing Society, Senior Member
- 2006 The Institution of Engineering and Technology, Member
- 2004 Bio-Medical Engineers Society of India (BMESI), Life member

Membership in Committees

- 2021 High power Selection committee of Defence India Start-up Challenge, Academic Expert
- 2021 Preliminary design Review Committee on Multi Static System(MSS), Academic Expert
- 2021 IEEE Radar Conference TPC Reviewer
- 2019 IEEE Radar Conference TPC Reviewer
- 2018 NITK Academic Space Audit Committee Member
- 2017 Critical Design Review Committee for AESA Radar, Academic Expert
- 2017 Standing Committee for dual mode Radar Seeker, Academic Expert
- 2017 Software Design Review Committee for AESA Radar, Academic Expert
- 2016 NITK Library Advisory Committee, Member
- 2015 Defence Science Journal Editorial Committee, Reviewer
- 2015 Defence Science Journal Editorial Committee, Reviewer
- 2013 IEEE Vizag Bay Sub-Section Executive Committee, Treasurer

- 2013 IET AP State Young Professorial Section, Co-ordinator
- 2013 DIET IET YP Student Chapter, Advisor
- 2013 IET Bangalore Local Network, YP Joint Secretary (Academics and New initiatives)
- 2013 NITK IET Student Chapter, Advisor
- 2012 IEEE Vizag Bay Sub-Section Student Activities Committee, Chair
- 2011 IEEE Hyderabad Section Student Activities Committee, Chair
- 2010 IEEE Hyderabad Section Graduates of Last Decade Affinity Group, Vice Chair
- 2007 IETE Visakhapatnam Centre, Executive Member
- 2006 DIET IEEE Student Branch Committee, Counsellor

Research Projects

- Study and simulation of track detect before schemes for radar Role: Principal Investigator Year 2020.
  Amount: 6.49 Lakhs Status: Ongoing
- DRDO (RCI) Consultancy Project: "Study of Various Bias Estimation Techniques for Multi-Sensor Multi-Target Tracking". Role: Principal Investigator Year 2017.
  Amount:9.75 Lakhs Status: Completed.
- CRL-BEL Consultancy Project: "Automatic Bias Estimation Technique for 2D/3D Surveillance radar using Networked Radar Data". Role: Principal Investigator Year 2019.
  Amount: 8.26 Lakhs Status: Completed
- LRDE CARs Project: "Sigma Delta Space Time Adaptive Processing for GMTI for AESA radar". Role: Co-Principal Investigator Year 2018.
  Amount: 9.63 Lakhs Status: Completed.
- DST SERB Project: "Development and Performance Evaluation of Efficient Tracking Algorithms for Phased Array Radars in the Presence of Electronic Counter Measures". Role: Principal Investigator Year 2016
  Amount: 13.1 Lakhs Status: Completed.
- DRDO (Research Centre Imarat (RCI)) Consultancy Project: "Study of Optimal Pulse Compression Radar Waveforms Suitable for Sea and Ground Clutter". Role: Principal Investigator Year 2016.
  Amount: 9.775 Lakhs Status:Completed
- DRDO (RCI) Consultancy Project: "Study of advanced radar signal processing and tracking approaches to detect low RCS targets in heavy sea clutter".
  Amount: 9.76 Lakhs Status: On going.
- LRDE Consultancy Project: Algorithm to Reduce Measurement Errors Due to Sea Surface Multipath and Sea Clutter Role:Principal Investigator Year:2021-2022
  Amount: 9.44 Lakhs Status: On going

Publications: 8 Journal Papers and 27 Conference Papers

[1] Pathipati Srihari John D' Souza Paramananda Jena Ashoka Chakravarthi Mahipathi, Srinath Gunnery. Nonlinear frequency modulated waveform optimization for a co-operative radar communication. Best track paper award.

[2] Vikas Baghel, Ganapati Panda, P Srihari, K Rajarajeswari, and Babita Majhi. An efficient multi-objective pulse radar compression technique using rbf and nsga-ii. In *2009 World Congress on Nature & Biologically Inspired Computing (NaBIC)*, pages 1291–1296. IEEE, 2009.

[3] Pardhasaradhi Bethi, Srihari Pathipati, and P Aparna. Gnss intentional interference mitigation via average kf innovation and pseudo track updation. In *2020 IEEE 17th India Council International Conference (INDICON)*, pages 1–5. IEEE, 2020.

[4] Pardhasaradhi Bethi, Srihari Pathipati, and P Aparna. Impact of target tracking module in gps spoofer design for stealthy gps spoofing. In *2020 IEEE 17th India Council International Conference (INDICON)*, pages 1–6. IEEE, 2020.

[5] Pardhasaradhi Bethi, Srihari Pathipati, and P Aparna. Stealthy gps spoofing: Spoofer systems, spoofing techniques and strategies. In *2020 IEEE 17th India Council International Conference (INDICON)*, pages 1–7. IEEE, 2020.

[6] Pardhasaradhi Bethi and Pathipati Srihari. Stealthy gps spoofer design by incorporating processing time and clock offsets. In *Paper has been accepted in the IEEE INDICON-2021 Conference*.

[7] Balarami Reddy BN, Srinath Gunnery, Pardhasaradhi Bethi, and Srihari Pathipati. Quantized directional cosine measurements based localization. In *2021 10th IEEE International Conference on Communication Systems and Network Technologies (CSNT)*, pages 99–104. IEEE, 2021.

[8] Pathipati Srihari Shripathi U. Acharya G.V.K Sharma D S L Praharshita, Bethi Pardha Saradhi. High-frequency and low-latency dsp architecture for information matrix fusion. In *Paper has been presented in the IEEE CONNECT-2021 Conference*. Best track paper award.

[9] Garivi Haritha, P Aparna, Pathipati Srihari, and Gnane Swarnadh Satapathi. Analysis of real-time tracking filters implementation in fpga. In *2018 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, pages 158–162. IEEE, 2018.

[10] Kagitha Naga Lakshmana Kumar, Pathipati Srihari, Gnane Swarnadh Satapathi, and Gollakota Venkata Krishna Sharma. A high speed complementary pulse compressor and its implementation of fpga. In *2017 IEEE Radar Conference (RadarConf)*, pages 1379–1382. IEEE, 2017.

[11] Pathipati Srihari D Sheshagiri Vishal Mahajan Kumuda D K, Ashwitha K Shetty and Peter Joseph. Multiple target detection using sigma delta stap in the presence of airborne clutter. In *Paper has been presented in the IEEE CONNECT-2021 Conference*.

[12] Pratik Laddha, Rathna Prasad, U Sripathi Acharya, Pathipati Srihari, S Prasad, and PH Rao. Study of 2d localization using simo antenna. In *2016 International Symposium on Antennas and Propagation (APSYM)*, pages 1–4. IEEE, 2016.

[13] S Rohan Nagarad, AS Sourabh, U Sripathi Acharya, Pathipati Srihari, S Prasad, and PH Rao. 3-d radar imaging using extended 2-d range migration technique. In *2017 IEEE Applied Electromagnetics Conference (AEMC)*, pages 1–2. IEEE, 2017.

[14] A Vengadarajan Paramananda Jena and Pathipati Srihari. Design of unimodular long length polyphase code for cw radar for doppler tolerance. In *Paper has been accepted in the IEEE INDICON-2021 Conference*.

[15] Bethi Pardhasaradhi, Pathipati Srihari, and P Aparna. **Navigation in GPS spoofed environment using m-best positioning algorithm and data association**. *IEEE Access*, 9:51536–51549, 2021.

[16] Bethi Pardhasaradhi, Pathipati Srihari, and P Aparna. **Spoofer-to-Target Association in Multi-Spoofer Multi-Target Scenario for Stealthy GPS Spoofing**. *IEEE Access*, 9:108675–108688, 2021.

[17] Adithya Jayan Anvith M. Medidi Anurag Pathipati Srihari, Vikas Kumar Dewangan and Bethi Pardhasaradhi. Knowledge aided tracker: Multi-target tracking in the presence of electromagnetic absorbers. In *Paper has been accepted in the IEEE INDICON-2021 Conference*.

[18] Vandana G S Pathipati Srihari. Experimental study 24ghz sense2go1 pulse radar sensor for human vital sign measurement. In *Paper has been presented in the IEEE CONNECT-2021 Conference*.

[19] Vandana G S Pathipati Srihari and Raghavendra B S. Measurement and evaluation of human vital sign using 77ghz awr1642 fmcw radar sensor. In *Paper has been presented in the IEEE CONNECT-2021 Conference*.

[20] Bethi Pardhasaradhi Gunnery Srinath Purushottama Lingadevaru, Pathipati Srihari. A conceptual framework for knowledge aided passive radar system. In *Paper has been presented in the IEEE CONNECT-2021 Conference*. Overall Best Paper Award and Best track paper award.

[21] Jayaramu Raghu, Pathipati Srihari, Ratnasingham Tharmarasa, and Thiagalingam Kirubarajan. **Comprehensive track segment association for improved track continuity**. *IEEE Transactions on Aerospace and Electronic Systems*, 54(5):2463–2480, 2018.

[22] B SashiKanth, P Kiranmayee, and P Srihari. Lms adaptation for assaying power profile delay estimation in mimo-ofdm tactics. In *Proceedings of IEEE International Conference on Computer Communication and Systems ICCCS14*, pages 187–190. IEEE, 2014.

[23] Gnane Swarnadh Satapathi and Srihari Pathipati. **Waveform agile sensing approach for tracking benchmark in the presence of ECM using IMMPDAF**. *Radioengineering*, 26(1):227, 2017.

[24] Gnane Swarnadh Satapathi and Pathipati Srihari. All neighbor fuzzy relational data association for multitarget tracking in the presence of ecm. In *2016 IEEE Annual India Conference (INDICON)*, pages 1–5. IEEE, 2016.

[25] Gnane Swarnadh Satapathi and Pathipati Srihari. **Soft and evolutionary computation based data association approaches for tracking multiple targets in the presence of ECM**. *Expert Systems with Applications*, 77:83–104, 2017.

[26] Gnane Swarnadh Satapathi and Pathipati Srihari. **Rough fuzzy joint probabilistic association for tracking multiple targets in the presence of ECM**. *Expert Systems with Applications*, 106:132–140, 2018.

[27] Gnane Swarnadh Satapathi and Pathipati Srihari. **STAP-based approach for target tracking using waveform agile sensing in the presence of ECM**. *Arabian Journal for Science and Engineering*, 43(8):4019–4027, 2018.

[28] GVK Sharma and K Raja Rajeswari. Mimo radar ambiguity analysis of phase coded pulse waveforms. In *2012 International Conference on Radar, Communication and Computing (ICRCC)*, pages 101–106. IEEE, 2012.

[29] GVK Sharma, P Srihari, and K Raja Rajeswari. Mimo radar ambiguity analysis of frequency hopping pulse waveforms. In *2014 IEEE Radar Conference*, pages 1241–1246. IEEE, 2014.

[30] H Prashanth Kumar Dr. R. Tharmarasa T. Kirubarajan Srinath G, Pathipati Srihari. Coherent radar target detection with in-band cyclostationary wireless interference. In *Paper has been accepted in IEEE Access*.

[31] Prashantha Kumar H Srinath Gunnery, Pardhasaradhi Bethi and Srihari Pathipati. Target performance improvement in cooperative radar and communication system spectrum sharing. In *Paper presented in 12th International Conference on Computing Communication and Networking Technologies*, pages 1291–1296. IEEE, 2009.

[32] B Gopala Swamy, U Sripati Acharya, P Srihari, and B Pardhasaradhi. Systolic-architecture-based matrix multiplications and its realization for multi-sensor bias estimation algorithms. *Advances in Communications, Signal Processing, and VLSI: Select Proceedings of IC2SV 2019*, page 263, 2021.

[33] VVS Avinash Teja, S Venkata Chaitanya, Uday Akula, Pathipati Srihari, and VR Sastry. Blast vibration signal analysis using s-transform. In *2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)*, pages 4182–4186. IEEE, 2016.

Dakshina Kannada ,Karnataka – 575025 – India
+91-9885049285 • *0824-2473515* • *srihari.js@gmail.com*
https://vidwan.inflibnet.ac.in/profile/54704
Orcid Id: 0000-0001-9168-2753