



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE Affiliated to JNTU Kakinada)

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FACULTY PRPOFILE

Name of the Faculty Dr. G. Naga Divya

Designation Assistant Professor

Date of Joining 01-06-2024

Nature of Association Regular

Email & Phone No drgnagadivya19@diet.ac.in & 9494049738

Department Electronics and Communication Engineering

Educational Background

1. Ph.D at KLEF(Deemed to be University) (Signal Processing)
2. M.Tech (Radar and Microwave Engg) from Andhra University college of Engineering (A), Visakhapatnam
3. B.Tech (ECE) from Koneru Lakshmaiah College of Engineering (A), Guntur

Areas of Specialization Signal processing

Research Areas Statistical Signal Processing, Tracking, Radar signal processing

Experience 2 Years (Teaching) & 6 Years (Research)



Sl. No	Institute	Designation	Period
1	DhaneKula Institute of Engineering & Technology, Ganguru	Assistant Professor	01-06-2024 - till date
2	KLEF (Deemed to be University), Guntur (Funding Agency: Naval Research Board, DRDO)	Research Associate	12-09-2022 – 25-11-2023
3	KLEF (Deemed to be University), Guntur (Funding Agency: Naval Science & Technological Laboratory, DRDO)	JRF	19-12-2019 – 25-10-2021
4	KLEF (Deemed to be University), Guntur	Full-time scholar	05-07-2017– 31-05-2021
5	Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru	Assistant Professor	20-04-2015 – 30-06-2017

PATENTS :

1. S.Koteswara Rao, G. Naga Divya, Obla Rama Nandagopan, "A method and system for estimating errors in motion parameters (TMP) of a target using bearing measurements". File no. P12409IN00 was published.
2. S.Koteswara Rao, G. Naga Divya, Obla Rama Nandagopan, "A method and system for estimating motion parameters (TMP) of a target using bearing measurements". File no. P12415IN00 was published.
3. S.Koteswara Rao, G. Naga Divya, V. Sunanda Babu, "A method and system for estimating motion parameters (TMP) of multiple targets using bearing measurements". File no. P15115IN00 was submitted.

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1. S.Koteswara Rao, G. Naga Divya. Submarine to submarine passive target tracking in severe noisy sea environment. Registration no. L-138843/2023.

List of Publications (National and International Journals):

1. Naga Divya, G., and Koteswara Rao, S., (2021) Application of Sigma Point Particle Filter Method for Passive State Estimation in Underwater, *Defence Science Journal*, vol. 71, No.4, 556-563. doi: [10.14429/dsj.71.16284](https://doi.org/10.14429/dsj.71.16284). (SCIE, WOS and Scopus indexed)
2. Naga Divya, G., and Koteswara Rao, S., (2021) Application of Cubature Information Filter for Underwater Target Path Estimation, *PERTANIKA Journal of Science & Technology*, vol. 29, No. 3, 1733 – 1749. doi: [10.47836/pjst.29.3.07](https://doi.org/10.47836/pjst.29.3.07). (ESCI, WOS and Scopus indexed)
3. Naga Divya, G., and Koteswara Rao, S., (2021) Prevalence of shifted Rayleigh filter for passive surveillance in underwater, *International Journal of Intelligent Computing and Cybernetics*, vol. 15, No. 1, 110-123. doi: [10.1108/IJICC-06-2021-0105](https://doi.org/10.1108/IJICC-06-2021-0105). (ESCI, WOS and Scopus indexed)
4. Naga Divya, G., and Koteswara Rao, S., (2024) Stochastic analysis approach of extended H-infinity filter for state estimation in uncertain sea environment, *International Journal of System Assurance Engineering and Management*, vol. 15, No.1, 152-160. doi: 10.1007/s13198-022-01682-6. (ESCI, WOS and Scopus indexed)
5. Naga Divya, G., and Koteswara Rao, S., (2022) Implementation of ensemble Kalman filter algorithm for underwater target tracking, *Journal of Control and Decision*, 1-10. doi: [10.1080/23307706.2022.2092039](https://doi.org/10.1080/23307706.2022.2092039). (ESCI, WOS and Scopus indexed)
6. Koteswara Rao, S., Kavitha Lakshmi, M., Jahan, K., Naga Divya, G., & Omkar Lakshmi Jagan, B. (2023). Acceptance criteria of bearings-only passive target tracking solution. *IETE Journal of Research*, 69(5), 2874-2885. (SCIE, WOS and Scopus indexed)
7. Jahan, K., Koteswara Rao, S., & Naga Divya, G. (2023). State Vector's Fusion for Passive Underwater Tracking Using Two Sensor Arrays. *IETE Journal of Research*, 1-9. (SCIE, WOS and Scopus indexed)
8. Sai Divya, K., Ramesh, K.S., Koteswara Rao, S., Naga Divya, G., (2021) Object Tracking Using Bearings-Only Measurements with Observer Maneuver, *Journal of Green Engineering*, vol. 10, No. 10, 9306-9314. (Scopus indexed)
9. Charitha, N., Koteswara Rao, S., Naga Divya, G., (2021) Design of U-Shaped Microstrip Patch

Environment Safe Antenna for Ultra-Wide Band applications, *Journal of Green Engineering*, vol. 11, No. 11, 18-28. (Scopus indexed)

10. Swetha.S, G.Naga Divya , G.Anitha, DR.K.S.Rangarao. (2015). DCFT and MDCFT as applied to ISAR Imaging of Targets with Complex Motion–Analysis. *International Journal of Engineering Sciences Research-IJESR*. Vol. 5, ISSN: 2230-8504; e-ISSN-2230-8512.
11. G.Naga Divya , Swetha .S , G.Anitha, Dr.K.S.RangaRao, (2016). Effect of signal length and snr on imaging of targets with complex motion using MDCF. *ISST Journal of Electrical & Electronics Engineering (IJEEE)*, Vol.8, No.1/2, ISSN : 0976-7363.

National/International Conferences ((National and International):

1. Naga Divya, G. and Koteswara Rao, S. K., (2019) Application and Comparison of Bayesian Framework Algorithms for Underwater State Estimation, *2019 International Symposium on Ocean Technology (SYMPOL)*, 10-20. doi: 10.1109/SYMPOL48207.2019.9005300. (Conference, WOS and Scopus indexed)
2. Koteswara Rao, S., and Naga Divya, G., (2021) Underwater State Estimation using Bearings only Measurements with an Emphasis on Sonar, *2021 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N)*, 1860-1865. (Conference, WOS and Scopus indexed)
3. Sai Divya, K., Ramesh, K.S., Koteswara Rao, S., Naga Divya, G., (2021) Underwater Object Tracking using Unscented Kalman Filter, *2021 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N)*, 1729-1733. (Conference, WOS and Scopus indexed)
4. Sai Divya, K., Ramesh, K.S., Koteswara Rao, S., Naga Divya, G., (2021) Application of Particle Filter for Passive Underwater Bearing only Tracking, *2021 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N)*, 1822-1827. (Conference, WOS and Scopus indexed)
5. Uwigize, P., Rao, S. K., & Divya, G. N. (2023, April). Application of kalman filter for radar target tracking. In *Journal of Physics: Conference Series* (Vol. 2471, No. 1, p. 012002). IOP Publishing. (Conference, WOS and Scopus indexed)

Achievements / Awards etc.,

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| 1. GATE Qualified | : 2011, 2012 |
| 2. FDP's Attended | : 3 |
| 3. Coursera Courses | : 2 |
| 4. NPTEL Course | : 1 |

Dr. G. NAGA DIVYA