Name: Tangudu Ramji

Department: E.C.E.

Date of Birth: 31/05/1989

Father Name: T. Kantarao

Mother Name: T. Eswaramma

Reservation Category if Any: BC-D

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Date of Joining in the Institution: 01/11/2021

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph. D.	IIT Bhubaneswar	-	Thesis Submitted
M. Tech. (E.C.E.)	IIT Bhubaneswar	First Class with Distinction	2014
B. Tech (E.C.E.)	TKR Eng. College, Hyderabad	First Class with Distinction	2010

Total Years of Experience (Teaching/Industry): 1 Year 6 Months

Period		Organization/Institution/Industry	Designation
01-11-2022	Till date	AITAM, Tekkali	Assistant Professor
01-02-2021	16-02-2021	TVSSS-FOSS Company	Senior Engineer
01-09-2014	31-12-2015	AITAM, Tekkali	Assistant Professor

Areas of Interest:

1. Optical Communication.
2. Fiber Optic Sensors.
3. Analog & Digital Communication.
4. Analog & Digital Circuits.
5. Soft & Evolutionary Computing.
6. Machine Learning.
7. Signal Processing.

Guidance of Academic Projects:

i) Doctoral Projects : -
ii) Masters Projects : -
iii) Bachelor Projects : -

Sponsored Research Projects: -

S. No.	Sponsoring Agency	Title of the Project	Grant

Funding from External Agencies:

S. No.	Sponsoring Agency	Title of the Program	Grant

Other Responsibilities:

1. Class Teacher

Details of Journals Publications: -

1. "Strain resolution enhancement in Rayleigh-OTDR based DSS system using LWT-MPSO scheme," J. Elsevier Optik, vol. 176, no. 1, pp. 102-113, Sep. 2018. **(SCI)**
2. "Dynamic range enhancement of OTDR using lifting wavelet transform-modified particle swarm optimization scheme," J. IET Optoelectronics, vol. 13, no. 6, pp. 295-302, 2019. **(SCI)**
3. "Rayleigh Φ-OTDR based DIS system design using hybrid features and machine learning algorithms," J. Elsevier Optical Fiber Technology, vol. 61, no. 1, pp. 1-8, Dec. 2020. **(SCI)**
4. "Review on the developments and potential applications of the fiber optic distributed temperature sensing system," J. IETE Technical Review, pp. 1-15, Jan. 2021. **(SCI)**

Details of Conferences Publications:-

1. "Resource and Subcarriers Allocation for OFDMA based on Wireless Distributed Computing (WDC) system" in IEEE 4th International Advanced Computing Conference (IACC), pp. 338-342, at Gurgaon (2014). DOI: 10.1109/IAdCC.2014.6779345
2. "Latency Optimization and Power Efficiency with Higher Transmission Data Rate in OFDMA based Wireless Distributed Computing System" in IEEE International Conference on Advanced Communication, Control & Computing Technologies (ICACCCT), pp. 1158-1162, at Tamilnadu (2014). DOI: 10.1109/ICACCCT.2014.7019279.
3. "Adaptive Resource Allocation and its Scheduling for good Tradeoff between Power Consumption and Latency in OFDMA based Wireless Distributed Computing System" in IEEE 4th International Conference on computation of power, energy, information and communication (ICCPEIC), pp. 0496-0501, at Tamilnadu (2015). DOI: 10.1109/ICCPEIC.2015.7259504.
4. "Effect of receivers Densities and Manipulation of Transmission Data Rate on Tradeoff between Power Consumption and Bandwidth Consumption in OFDM based Wireless Distributed Computing Network" in IEEE 4th International Conference on computation of power, energy, information and communication (ICCPEIC), pp. 0485-0490, at Tamilnadu (2015). DOI: 10.1109/ICCPEIC.2015.7259503.
5. "Effect of Devices Loads and their Number of Operations on Tradeoff between Latency Consumption and Bandwidth Consumption in OFDM based Wireless Distributed Computing Network" in IEEE 4th International Conference on computation of power, energy, information and communication (ICCPEIC) at Tamilnadu (2015).
6. "Temperature resolution and spatial resolution improvement of BOCDR based DTS system using particle swarm optimization algorithm" in proc. of Int. Springer Conf. on Soft Comput. for Probl. Solv. (SocProS), vol. 817, pp. 781-792, Oct. 2018.

7. “Strain resolution and spatial resolution improvement of BOCDR based DSS system using particle swarm optimization algorithm” in proc. of Int. Springer Conf. on Opt. & Wireless Technol. (OWT), vol. 546, pp. 179-192, April 2019.
8. “Distributed optical fiber sensing system performance improvement using signal processing techniques” in proc. of Int. Springer Conf. on Intelligent Comput. & Advances in Commun. (ICAC), vol. 109, pp. 37-45, Jan. 2020.
9. “An efficient BOTDR based DSS system” in proc. of Int. Joint Symposia on Photon. & Opt. (OSA-OSK-OSJ), Jan. 2020.
10. “Temperature resolution enhancement in BOTDR based distributed temperature sensing system using LWT-MPSO method” in proc. of Int. IEEE Conf. on Appl. Elect.magn. Signal Process. & Commun. (AESPC), March 2020.
11. “Dynamic range improvement of backscattered optical signals using signal processing techniques” in proc. of Int. IEEE Conf. on Appl. Signal Process. (ASPCON), pp. 66-69, Oct. 2020.

Details of Workshops / Refresher Courses Attended:

Internal:

S. No.	Dates	Name of The Programme	Host Institution
1.	15th-16th Nov-2014	Pedagogical issues of technical teachers	AITAM
2.	6th Dec-2014	Outcome based education	AITAM,
3.	3rd-7th Aug-2015	Reviving education by implementing active and guided inquiry experiences in science, technology, engineering, math & management	AITAM

External: -

S. No.	Dates	Name of The Programme	Host Institution
1.	October-2013	Cognitive Radio	IIT Kanpur
2.	March-2016	Optisystem software	IIT Bhubaneswar
3.	October-2017	Field programmable analog array	IIT Bhubaneswar
4.	February-2019	Design and development of fiber optic sensor for remote monitoring	IIT Bhubaneswar
5.	February-2019	Fiber optic communication	IIT Bhubaneswar
6.	February-2020	Fiber optic communication	IIT Bhubaneswar


Signature