**Mrs.K.Lalitha M.E.,**

**Assistant Professor,**

**Dept of ECE,CET,SRMIST**

**Ramapuram Campus, Chennai**

**E- mail id: lalithak@srmist.edu.in**

**Scopus id: https://www.scopus.com/authid/detail.uri?authorId=57218902400**

Dr.K.Lalitha Working as an Assistant Professor in the Department of ECE at SRMIST,Ramapuram. She Graduated in Electronics and Communication Engineering at Madras University,Chennai,Tamilnadu, India. She secured Master of Engineering in Applied Electronics at Anna University, Chennai, India. She completed Ph.D. in the field of Microwave Imaging at SRM institute of Science and Technology, Chennai, India. She is in teaching profession for more than 17 years. She has presented number of papers in National and International Journals, Conference and Symposiums.

**Areas of Research:**

Microwave Imaging, Embedded system design.

**Selected Publications:**

**Web of Science/SCI**

1. **Lalitha. K**, J. Manjula, "Experimental verification Microwave Head Imaging Using phantoms fabricated from Artificial Tissue Mimicking Materials," Journal of Electronic Materials, vol. 53, no. 3, pp. 129-140,2024. (IF-2.047-SCI Indexed).

2. **Lalitha. K**., J. Manjula, "Dielectric characterization of Dispersive Head tissue for detection and classification of Tumor using Microwave Imaging Technique and Deep Learning Model", Arabian Journal of Science and Engineering, 2024. (IF=2.9) (Published online).

3. K. Lalitha, G. Ramya and M. Shunmugathammal, "AI based Safety Helmet for Mining workers using IoT Technology and ARM Cortex-M," in IEEE Sensors Journal, doi: 10.1109/JSEN.2023.3296523.

4. Lalitha Kandasamy, and Shreya Reddy K, "Deep Learning Algorithm for Automatic Breast Tumour Detection and Classification from Electromagnetic Scattering Data," Progress In Electromagnetics Research C, Vol. 128, 39-48, 2023.

3. Lalitha, K. and J. Manjula. "Novel method of characterization of dispersive properties of heterogeneous head tissue using microwave sensing and machine learning algorithms," Advanced Electromagnetics, Vol. 11, No. 3, 84–92, Oct. 2022, doi:10.7716/aem. v11i3.1821.

4. Kandasamy L, J M. Ground Penetrating Radar Algorithm to Sense the Depth of Blood Clot in Microwave Head Imaging. Current Medical Imaging. 2022;18(8):845-854. doi: 10.2174/1573405618666220114150216. PMID: 35034599.

5. Vanaja Selvaraj, John Bosco Joselin Jeya Sheela, Rahul krishnan, Lalitha Kandasamy, and Sasirekha Devarajulu, "Detection of Depth of the Tumor in Microwave Imaging Using Ground Penetrating Radar Algorithm," Progress In Electromagnetics Research M, Vol. 96, 191-202, 2020. doi:10.2528/PIERM20062201

**Patents:**

1.A smart system to stabilize tremor conditions with connected wearable wristband and finger caps

**Books/Book Chapters Published:**

1. Ultra-Wideband Wearable Vivaldi Antennas for Biomedical Applications by CRC Publishers .

Professional Bodies:

2. Digital Electronics by Scientific publishing house

Member – ICICS

Orcid profile: https://orcid.org/0000-0002-1021-5895.

Scopus Author i.d: https://www.scopus.com/authid/detail.uri?authorId=57218902400

Web of science profile :

https://www.webofscience.com/wos/author/results/1/relevance/1

**Google Scholar**:

https://scholar.google.com/citations?user=ftTQ66UAAAAJ&hl=en&authuser=1

**LinkedIn:**

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