




K. S. INSTITUTE OF TECHNOLOGY

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Faculty Name	Dr. Vijayalaxmi Mekali	
Designation	Professor and Head, AI & ML Dept	
Educational Qualification	Ph. D	
Experience in Years	18 years	
Areas of Interest	Image Processing, Medical Image Processing, Machine Learning, Artificial Intelligence, IoT	
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Education Detail

Examination/ Degree	College / University	Year of Passing
Ph. D	Research center : R. N. S Institute of Technology, Bangalore University : Visvesvaraya Technological University	2021
M.Tech	M. V. Jayaram College of Engineering, Bangalore, Karnataka Visvesvaraya Technological University	2011
B. E	Basaveshwara Engineering College, Bagalkot, Karnataka Karnataka University	2000

Publications

Journal Publications:

1. Vijayalaxmi Mekali and Dr. Girijamma H. A, "**Fully Automatic Detection and Segmentation Approach for Juxta-Pleural Nodules from CT Images**", International Journal of Healthcare Information System and Informatics (IJHISI), IGI global, vol. 16, no. 2, 2021. H Index Journal.
2. Vijayalaxmi Mekali and Dr. Girijamma H. A, "**Novel CADe/x System for Lung Nodules Segmentation and Classification on Computed Tomography Images**", International Journal of Innovative Technology and Exploring Engineering, vol.9, no. 2, 2019.
3. Vijayalaxmi Mekali and Dr. Girijamma H. A, "**Integrated System for Classification of Pulmonary Nodules on CT Images**", International Journal of Recent Technology and Engineering, vol. 8, no.4, 2019.
4. Vijayalaxmi Mekali and Dr. Girijamma H. A, "**Automated Lung Nodules and Ground Glass Opacity Nodules Detection and Classification from Computed Tomography Images**", Springer Lecturer Notes in Computational and Biomechanics (LNCB), vol. 30, pp.1347-1358, 2018.
5. Vijayalaxmi Mekali and Dr. Girijamma H. A, "**Clinical Study of Cancer Tumors Size and Stages**", International Journal of Current Research, vol.9, no.12, 2017.
6. Vijayalaxmi Mekali and Dr. Girijamma H. A, "**Lung Parenchyma Segmentation and Solitary**

Pulmonary Nodules in Lungs Detection Techniques-A Survey, International Journal of Innovative Research in Computer and Communication Engineering, vol. 3, no. 6, 2015.

7. Vijayalaxmi Mekali and Dr. Girijamma H. A, ***“Lung Parenchyma Detection and Diagnosis by Diffusion Weight MRI”***, International Journal of Applied Engineering, Research, vol. 10, no. 86, 2015.

Papers published in International and National level Conference Papers :

1. Vijayalaxmi Mekali and Dr. Girijamma H. A, ***“Fully Automated CAD System for Juxta Vascular Nodules Segmentation in CT Scan Images”***, 3rd International Conference on Computing Methodologies and Communication (ICCMC), 27th to 29th March 2019, Organized by Surya Engineering College, Erode, Tamil Nadu, India. Published in IEEE Xplore., pp. 317-324, 2019.
2. Vijayalaxmi Mekali and Dr. Girijamma H. A, ***“Fully Automated CAD System for Juxta Vascular Nodules Segmentation in CT Scan Images”***, 3rd International Conference on Computing Methodologies and Communication (ICCMC), 27th to 29th March 2019, Organized by Surya Engineering College, Erode, Tamil Nadu, India. Published in IEEE Xplore., pp. 317-324, 2019.
3. Vijayalaxmi Mekali and Dr. Girijamma H. A ***“Solitary Pulmonary Nodules Classification Based on Tumor Size and Volume of Nodule”***, 2nd International Conference on Applied and Theoretical Computing and Communication Technology, 21st -23rd July 2016, Organized by S J B Institute of Technology, Bangalore, Published in IEEE Xplore, pp. 394-398.
4. Vijayalaxmi Mekali and Dr. Girijamma H. A, ***“Lung Parenchyma Detection and Diagnosis by Diffusion Weight MRI”***, 2nd International Conference on Data Engineering and Communication Systems, 28th - 29th December, 2015, organized by R N S Institute of Technology, Bangalore. Published in International Journal of Applied Engineering, Research, vol. 10, no. 86, 2015.
5. Vijayalaxmi Mekali, ***“Segmentation of lung MRI based on Fuzzy maximum posteriori Estimate of Lung cancer Tumor”***, 2nd World Conference on Applied Sciences, Engineering & Technology (WCSET 2013), Geetam University, Hyderabad 8th-9th March 2013. ISBN :978-81-923724-2-6

National Level

6. Vijayalaxmi Mekali, ***“A Survey on Deblurring the Blurred Image”***, 30th CSI Karnataka Students Convention”, 10th-12th November 2016, organized by K. S Institute of Technology, Bengaluru, 2016
7. Vijayalaxmi Mekali, ***“Deblurring of the Blurred Image”***, National Conference on Networking, Image Processing and Multimedia (NaCoNIM) -2017, KSIT, Bangalore, May 10-12.

Awards/Achievements

Awards

- Reviewer for the AICTE sponsored IEEE International Conference on Network, Multimedia and Information Technology (NMITCON) organized by Nitte Meenakshi Institute of Technology, on September 2023, Bangalore
- Reviewer for the IEEE International Conference on Applied Intelligence and Sustainable Computing (ICAISC-2023) organized by Sri Dharmastala Manjunatheshwara College of Engineering and Technology, Dharwad on June 2023.
- Resource person for “Image processing with Open CV” workshop conducted for 8th semester Computer Science and Engineering Students for the 2020 batch.
- Reviewer for the Hindwai Journal manuscript “Routing Protocols in Wireless Body Area Networks: Architecture, Challenges and Classification.
- Mentor for Sentinel Hack 4.0 organized by department of Computer Science and Engineering, KSIT.
- Session chair for the Nation level conference on Computing Technology 2022 organized by RNSIT, Bangalore.
- Session chair for the Nation level conference on Recent Innovations in Engineering - 2022 organized by KSIT, Bangalore.
- Received felicitation for 100% results for the subject Advanced Computer Architecture 8th sem in 2013
- Received felicitation for 100% results for the subject Software Architectures 7th sem in 2014
- Received felicitation for 100% results for Advanced Computer Architecture 8th sem in 2014
- Received felicitation for 100% results for the subject Software Architectures 7th sem in 2015
- Received felicitation for 100% results for Advanced Computer Architecture 8th sem in 2015
- Received felicitation for 100% results for Advanced Computer Architecture 8th sem in 2016
- Received felicitation for 100% results for Introduction to Datastructures and Algorithms 6th sem in 2023

Professional Membership

1. - ISTE LIFETIME MEMBERSHIP

Contact Details

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