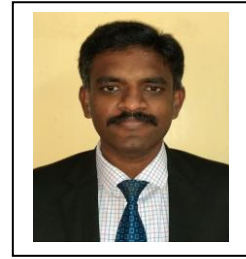


Faculty Profile

Dr. Jebaveerasingh J, M. Tech., Ph.D.,
Assistant Professor,
Department of Computer Science and Engineering
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Academic Background

Degree	University	Year
Ph.D.	Karunya Institute of Technology and Sciences, Coimbatore.	2019
M.Tech.	Karunya University, Coimbatore.	2011
B.E.	Anna University, Chennai.	2007

Courses Taught

- Theory of Computation
- Data Structure and Algorithms
- Design and Analysis of Algorithms
- Programming for Problem Solving
- Data Structures and Algorithms - II
- Artificial Intelligence
- Computer Graphics
- Principles of Compiler Design

Research Interests

- Medical Image Processing
- Machine Learning and Deep Learning
- Internet of Things
- Security in Wireless Networks

Most recent Publications

- Jebaveerasingh Jebadurai, Immanuel Johnraja Jebadurai, Getzi Jeba Leelipushpam Paulraj, Bastin Rogers Cross Joseph, "Green IoT - Low Cost Device for the Detection of Deep Vein Thrombosis using Edge Computing", Journal of Green Engineering, Volume:11 Issue:2, Pages: 1266-1276. Scopus Indexed.

- Bastin Rogers Cross Joseph, Jebaveerasingh Jebadurai, "A Comprehensive Study of Prospective Cohort Diseases Using Deep Vein Thrombosis", *Journal Cardiovascular Disease Research*. 2021; 12(4): 189-194.
- Getzi Jeba Leelipushpam Paulraj, Immanuel JohnRaja Jebadurai, Jebaveerasingh Jebadurai, and Nancy Eymal Samuel. "Cloud-Based Real-Time Wearable Health Monitoring Device Using IoT." In *Computer Networks and Inventive Communication Technologies*, pp. 1081-1087. Springer, Singapore, 2021. Scopus Indexed.
- Getzi Jeba Leelipushpam Paulraj, Immanuel Johnraja Jebadurai, and J. Jebaveerasingh. "Preparedness in the Aftermath of a Natural Disaster Using Multihop Ad hoc Networks—Drone-Based Approach." In *Advances in Artificial Intelligence and Data Engineering*, pp. 1281-1286. Springer, Singapore, 2021. Scopus Indexed.
- Jebaveerasingh Jebadurai, Immanuel Johnraja Jebadurai, Getzi Jeba Leelipushpam Paulraj, and Nancy Eymal Samuel. "IoT Based Safe Assembly Point Indicator System for Smart Buildings and Campuses." *Solid State Technology* 63, no. 5 (2020): 5486-5491.
- Getzi Jeba Leelipushpam Paulraj, Immanuel Johnraja Jebadurai, and Jebaveerasingh Jebadurai. "Fault Tree Analysis based Virtual Machine Migration for Fault-Tolerant Cloud Data Center." *Journal of Integrated Design and Process Science* 23, no. 3 (2019): 73-89. Scopus Indexed., Web of Science: Emerging Sources Citation Index.
- Jebaveerasingh Jebadurai, Immanuel Johnraja Jebadurai, Getzi Jeba Leelipushpam Paulraj, and Nancy Eymal Samuel, "Super-Resolution of Digital Images Using CNN with Leaky ReLU." *International Journal of Recent Technology and Engineering*, 2019, 8(2 Special Issue 11), pp. 210–212. Scopus Indexed.
- Jebaveerasingh Jebadurai, Immanuel Johnraja Jebadurai, Getzi Jeba Leelipushpam Paulraj, and Nancy Eymal Samuel, "Learning Based Resolution Enhancement of Digital Images". *International Journal of Engineering and Advanced Technology* 8 (6) 2019, 3026-3030.Scopus Indexed.
- Jebaveerasingh Jebadurai, and J. Dinesh Peter. "Super-resolution of retinal images using multi-kernel SVR for IoT healthcare applications." *Future Generation Computer Systems* 83 (2018): 338-346. Scopus, Web of Science ,SCIE Indexed.
- Jebaveerasingh Jebadurai, and J. Dinesh Peter. "DeepCS: Deep Convolutional Neural Network and SVM Based Single Image Super-Resolution." In *Data Driven Treatment Response Assessment and Preterm, Perinatal, and Paediatric Image Analysis*, pp. 3-13. Springer, Cham, 2018. Scopus Indexed.

Projects Guided

- Secure Transmission of Electronic Health Record (2019-2020)
- Safe Assembly Pointer (2019-2020)
- A Video Conferencing Application for The Institution (2020-2021)
- Learning Based Varicose Vein Image Classification (2020-2021)
- Plant Disease Detection and Classification using CNN (2020-2021)
- Prevention of Energy Wastage Using IoT Based Monitoring System (2020-2021)
- Recognizing Handwritten Documents and Converting Them Into Text (2020-2021)

- Software Solution for Telemedicine (2020-2021)
- Virtual Face To Face Mock Interview Platform (2020-2021)
- Web Based Placement Management System (2020-2021)

Memberships in Professional societies

- Associate Member – Institution of Engineers (India) - Membership Number 1747099
- IAENG – International Association of Engineers - Membership Number 151032

Significant achievements:

- Secured University First Rank in M. Tech - 2011
- Completed the first level of Mission 10X sponsored by Wipro - 2012.
- Awarded as Bronze level partner faculty by Infosys Technologies Limited - 2013
- Secured an All India Rank of 3983 (out of 155190 candidates) in GATE-2014
- Elite certificate for the NPTEL course on “Programming Data Structures And Algorithms Using Python”, 2021.
- Elite Silver certificate for the NPTEL course on “Introduction to Internet of Things”, 2019.
- Underwent 10 days In-plant Training in Arackal Digital Solutions, Techno Park, Trivandrum - 2005.
- Reviewer of Springer, Taylor & Francis journals.

Funded Projects

- Single Image Super-Resolution Tactic for Smartphone Fundoscopy Images Using Image Content Specific Self-Deep Learning Model – The Institution of Engineers (India) – INR 75000. PI: Dr. J. Dinesh Peter.

Professional Experience

Institution / Organization	Role / Designation	From	To
Karunya Institute of Technology and	Assistant Professor (CSE)	July - 2018	Till Date

Sciences			
Karunya Institute of Technology and Sciences	Research Scholar (Full Time)	August - 2014	June - 2018
SCAD College of Engineering and Technology, Tirunelveli	Assistant Professor (CSE)	May - 2011	September - 2013
Infosys Technologies Ltd. Bangalore	Software Engineer	July - 2007	April - 2009