MARTIN SAGAYAM. K
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RESEARCH/TEACHING INTERESTS

Artificial Intelligence and Machine Learning for real-time applications, Image and Signal Processing, Internet of Things (IoT) and Embedded Systems, Biomedical Signal/Health Monitoring Systems, Data Analytics and Pattern Recognition, Assistive and Smart Healthcare Technologies, Digital Signal Processing, Machine Learning / Deep Learning, Embedded Systems / IoT, Python / MATLAB Programming, Communication Systems, Electromagnetic field and Waveguide, Antenna and Wave Propagation, Microwave and Optical Engineering.

EXPERIENCE

- Assistant Professor (S.G.), Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2021 – present
- Assistant Professor (7000), Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2019 – 2021
- Assistant Professor (6000), Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2014 – 2018
- Teaching Fellow (Lecturer), Electronics Engineering, Anna University (MIT Campus), Chennai, India, 2011 – 2013

EDUCATION

Degree	Branch / Specialization	University	Class	Mode	Month&Year of Passing
Postdoctoral Researcher	Diabetic retinopathy disease using Machine Learning/ DNN Algorithm	Lincoln University, Malaysia	-	-	Pursuing
Postdoctoral Research Fellow	Medical Image Processing & Machine Learning/ DNN Algorithm	Federal University of Piaui, Brazil	-	-	Pursuing
Ph.D.,	Image processing and Pattern Recognition	Karunya University	Highly Commended	Part Time	Sep 2018
M.E.,	Communication Systems	Anna University	First Class with Distinction	Full Time	March 2011
B.E.,	Electronics and Communication	Anna University	First Class with Distinction	Full Time	April 2009

SUMMARY OF INTERNATIONAL JOURNAL& CONFERENCE PUBLICATIONS – [PUBLISHED & ACCEPTED]

Year	International Journal Publications	International Conference Publications	National Conference publications
2009 - 2021	**25**	**31**	**-**

PATENTS

1	System and Method for Extraction of Sweet Compounds from Natural Stevia, Application No.202011005968 A, Publication Date: 21/02/2020
2	System of Simultaneous Charging and Discharging Power Backup and Method Thereof, Application no.202011010537 a, publication date: 20/03/2020
3	Multilayer Reusable Activated Carbon Face Mask for Preventing Viral Infection, Application no.202011045474 a, publication date: 30/10/2020

RESEARCH GUIDANCE

Research guidance as supervisor	Completed	Ongoing
Doctor of Philosophy - PhD Thesis advising	1	6
Master of Engineering - Master's Thesis advising	5	-

PROFESSIONAL MEMBERSHIPS

1	IEEE (Reference number: 92989181)

2	International Association of Engineers (**IAENG**) – No.: 144129
3	Copernicus (Permanent user ID: 347077)

AWARDS/HONORS

1. Listed among Top 2% world scientists (Stanford University, USA)