

**Mr. C. Aravindan M.E., (Ph.D.)**

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Scopus id: <https://www.scopus.com/authid/detail.uri?authorId=57246337600>

**QUALIFICATION:**

**UG:** B.E., Electronics and Communication Engineering, AGNI College of Technology, May' 2006.

**PG:** M.E., Medical Electronics, College of Engineering (CEG Campus), May'2010.

**Ph.D.:** pursuing research work in the area of Diabetic Retinopathy using python language

**RESEARCH INTEREST:**

- Medical Image processing
- Sensors and Transducers

**ACADEMIC EXPERIENCE:**

- Lecturer, AVIT, Vinayaka Missions University, Feb 2007 - July 2008
- Assistant Professor (O.G), SRM University Ramapuram July 2008- Sep. 2017
- Assistant Professor (Sl. G), SRM Institute of Science and Technology Ramapuram Sep 2017- till date

**FUNDED PROJECT:**

- **DST** funded project titled “**Toxic gas level monitoring in sewage system**” during the academic year 2017-18 for **Rs. 19 lakhs\***
- **Applied for DST-DDP, SERB, TIDE, STRIDE, SC/ST CALL, TNSCST etc.**

**AWARDS:**

- Received an ISSN International Research Awards 2022 (IIRA-2022) for the research "**Traffic Congestion Control Synchronizing and Rerouting Using LoRa**" under the title, "*INTERNATIONAL BEST RESEARCHER AWARD*"

## PUBLICATION IN JOURNAL:

- S Sivaramakrishnan<sup>1</sup>, C Aravindan<sup>2</sup>, V Ramya<sup>3</sup>, "**An Innovative IoT - Based System for Water Level Monitoring and Management in Dams** ", Eur. Chem. Bull. 2023, 12 (Special Issue 6), 2782-2803 (SCOPUS) DOI: [0.31838/ecb/2023.12.si6.2482023.04/06/2023](https://doi.org/10.31838/ecb/2023.12.si6.2482023.04/06/2023)
- C. Aravindan and R. Vasuki, "**Detection and Classification of Early Stage Diabetic Retinopathy using Artificial Intelligence and Image Processing**," 2023 *International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)*, Bengaluru, India, 2023, pp. 919-924, doi: 10.1109/IDCIoT56793.2023.10053477. **IEEE Xplore** 01 March 2023.
- C. Aravindan, A. John Felix, V. Gayathri, Kishor Kiran, and G. Y. Varun Venkat, "**Retinal vessel classification to predict diabetic retinopathy and retinitis pigmentosa using a deep learning pipeline**", AIP Conference Proceedings 2405, 020026 (SCOPUS 2022) <https://doi.org/10.1063/5.0072436>
- Aravindan, C., Arthi, R., Kishankumar, R., Gokul, V., Giridaran, S. (2021). **A Smart Assistive System for Visually Impaired to Inform Acquaintance Using Image Processing (ML) Supported by IoT**. In: Kumar Bhoi, A., Mallick, P.K., Narayana Mohanty, M., Albuquerque, V.H.C.d. (eds) *Hybrid Artificial Intelligence and IoT in Healthcare*. Intelligent Systems Reference Library, vol 209. Springer, Singapore. [https://doi.org/10.1007/978-981-16-2972-3\\_8](https://doi.org/10.1007/978-981-16-2972-3_8). 23 July 2021. IF:0.72
- D. Manoj Kumar, R. Arthi, C. Aravindan, A. Ajin Roch, K. Priyadarsini, J. Deny, **Traffic Congestion Control Synchronizing and Rerouting Using LoRa, Microprocessors and Microsystems**, 2021, 104048, ISSN 0141-933, (<https://www.sciencedirect.com/science/article/pii/S0141933121002192>) (IF:3.503)
- C. Aravindan, R. Vasuki, **A study on improvising early detection of dot hemorrhages in the retina through dynamic image comparison technique**, *Materials Today: Proceedings*, 2021, ISSN 2214-7853, (<https://www.sciencedirect.com/science/article/pii/S2214785321031886>) (IF:2.59)
- Aravindan, C., Sharma, V., Thaarik Ahamed, A., Yadav, M., Chandran, S., published a paper titled **Fundus Image-Based Macular Edema Detection Using Convolutional Neural Network**. In: Bhoi, A.K., Mallick, P.K., Balas, V.E., Mishra, B.S.P. (eds) *Advances in Systems, Control and Automations*. ETAEERE 2020. *Lecture Notes in Electrical Engineering*, vol 708. Springer, Singapore. [https://doi.org/10.1007/978-981-15-8685-9\\_14](https://doi.org/10.1007/978-981-15-8685-9_14). (IF:0.32)
- C. Aravindan, Sneha Sreekumar, Suman Saha, Tharun Prakash published a paper titled "**License Plate Recognition using Connected Components and Morphological Processes**" in *International Journal*

*of Engineering Research & Technology (IJERT)* ISSN: 2278-0181, Vol. 8 Issue 06, June-2019 (DOI : 10.17577/IJERTV8IS060402)

- Aravindan. C, A. Manikandan. G, Prashanth.A published a paper titled "**BASED ON TUMOR CLASSIFICATION BY USING PNN METHOD**" in *International Journal of Pure and Applied Mathematics* ISSN: 1314-3395 Volume 119, Issue 16, June – 2018.
- Published a paper titled “**ESIMATION OF TOXIC GASES LEVEL IN SEWAGE SYSTEM**” in *International Journal of Emerging Technology in Computer Science & Electronics* ISSN: 0976-1353 Volume 25, Issue 5, April – 2018.
- Santhana Lakshmi.P, Anupam Kumar, C Aravindan published a paper titled "**POSTURECTOR- THE POSTURE CORRECTOR**" in *International Journal of Innovative Science and Research Technology* Volume 2, Issue 3, March – 2017
- Aneetha Lakshmi E, Aravindan C published a paper titled “**IoT based Health control & Emergency Detection system with First Aid systems**” in *International Journal of Advanced Research Trends in Engineering and Technology* ISSN 2394-3777, Volume 3, Issue 19 April 2016.

#### **PATENT:**

1. Patent number: 202121052678

Title of invention: **Automated Knee Osteoarthritis Detection in X-ray images using open-cv deep Learning**

The Commissioner of Patents has published the above patent on 24 December 2021

2. Patent number: 202141061531

Title of invention: **Thermal Imaging for snake detection- living things detection using thermal imaging in Agricultural field.**

3. Patent Design number: 377726-001

Date of Registration: 20/01/2023 the Patent Office Journal No. 18/2023 Dated 05/05/2023

Title of invention: **Artificial Intelligence Horoscope Device.**

4. Patent Design number: 387458-001

Date of Registration: 01/06/2023

Title of invention: **IOT Enabled Hemoglobin Analyzer.**

## **BOOKS PUBLISHED:**

### **1. Medical Electronics**

**Publisher** -Scientific International Publishing House ISBN No: 978-93-92992-74-2

### **2. Radio Equipment's:**

**Publisher** - Scientific International Publishing House ISBN No: 978-93-94002-17-3

## **RESPONSIBILITIES:**

- Camogenics club (Photography and Film club)
- Discipline coordinator
- Anti-ragging coordinator
- University exam cell member
- Placement coordinator (2011-2017)
- Cultural coordinator (2010-2018)