




DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Accredited NBA, NAAC with A+, New Delhi

Faculty Name	Dr. RAMA ABIRAMI K	
Academic Designation	Associate Professor	
Educational Qualification	BE., M.E., Ph.D	
Experience in Years	10 Years 10 Months	
Area of Interest	Network Security & Deep Learning	
Date of Birth	12.02.1988	
Aadhar No		
PAN No		
Email ID	<u>ramaabirami1988@gmail.com</u>	

Educational Details

- Ph.D - Anna University Chennai
- M.E in Anna University of Technology Coimbatore 2011.
- B.E in Dhanalakshmi College of Engineering Chennai 2009.

Personal Details

- Date of Birth: 12/02/1988
- Hobbies: Reading books
- Languages Known: Tamil & English

Professional Experience

- Worked as Associate Professor in the department of Computer Science and Engineering at Sri Krishna College of Engineering and Technology from 03.06.2019 to 28.02.2022
- Worked as Assistant Professor (Senior Grade) in the department of Computer Science and Engineering at KPR Institute of Engineering and Technology, Coimbatore from 15.06.2018 to 30.04.2019
- Worked as Assistant Professor in the department of Computer Science and Engineering at PSNA College of Engineering and Technology, Dindigul from 02.06.2014 to 14.05.2018
- Worked as Assistant Professor in the department of Computer Science and Engineering at Akshaya College of Engineering and Technology, Coimbatore from 01.06.2011 to 28.03.2014

Publications

International Journals:

- **K. Rama Abirami**, G.Ram Sundar, “An Enhanced and highly Authenticated Medical Treatment for an Emergency Management System using Cloud Computing”, ICEEICT 2022 IEEE Conference (Accepted)
- **K. Rama Abirami**, G.Ram Sundar, “Integrating Blockchain for Data Sharing using Tree Based Data Processing in Vanet Applications”, Test Engineering and Management,ISSN- 01934120, Vol.83, pp.13865 – 13870, May- June 2020.
- **K. Rama Abirami**, “Metastatic Tissue Detection in Lymphnodes Using Convolutional Neural Networks”, International Journal of Advanced Science and Technology, ISSN- 22076360, Vol. 29, No. 9, pp. 5483-5488, June 2020.
- Y. Saveetha, R.Ananthi, **K.Rama Abirami**, “A Core Medical Treatment System for Emergency Management using Cloud,” International Research Journal of Engineering and Technology, ISSN- 2395-0072, vol.06,issue 02, pp.85-88, Feb 2019.
- **K. Rama Abirami**, M.G. Sumithra, “Preventing the Impact of Selfish Behavior under MANET using Neighbor Credit Value Based AODV Routing Algorithm”, Springer Sadhana - Academy Proceedings in Engineering Science, ISSN- 09737677, vol.no.43, no. 4, April 2018 – (SCIE) Annexure-I. Impact Factor (2016) - 0.465. DOI:<https://doi.org/10.1007/s12046-018-0803-4>.
- **K. Rama Abirami**, M.G. Sumithra, “Evaluation of Neighbor Credit Value Based AODV Routing Algorithms for Selfish Node Behavior Detection”, Springer, Cluster Computing- The Journal of Networks Software Tools and Applications, ISSN- 1386-7857, Volume 22; No. 1; Pages 13307-13316; November 2019. (SCIE) Annexure-I. Impact Factor (2016) - 2.040. DOI: 10.1007/s10586-018-1851-6.
- **Rama Abirami, K**, Sumithra, MG, “Preventing Selfish Attack and Enhancing Cooperation of Node in AODV Routing using Credit Value under MANET”, World Applied Sciences Journal, ISSN- 1818-4952, vol. 35, no. 3, pp. 334-343, 2017.
- **K. Rama Abirami**, M.G. Sumithra , “An Enhanced Study on the Simulation of Selfish Behavior Attack and Black Hole Attack on the Performance of Mobile AD HOC Network” Middle-East Journal of Scientific Research, ISSN(P)- vol. 24 no.12, pp: 3696-3705, 2016.
- **K. Rama Abirami**, M.G. Sumithra, J. Rajasekaran, “Analytical Study on the Impact of Selfish Node Behaviors Attack and Black Hole Attack Under MANET”, International Journal of Advanced Engineering Technology, ISSN (E)- 0976-3945, Vol. VII, Issue II, April-June,2016.
- **Rama Abirami K**, Sumithra M G, Rajasekaran J “An Efficient Secure Enhanced Routing Protocol for DDoS Attacks in MANET”, International Review on Computers and Software, ISSN(P)- 1828-6003, Vol.9 N 1, PP. 119-127, January 2014.
- Shreenidhi B.S, Monisha R, Ravishankar BP, Shylaja N, Suhail Ahmed Shariff, “Patient Remote Monitoring System using IOT and ML”, INTERNATIONAL JOURNAL OF ADVANCE RESEARCH AND INNOVATIVE IDEAS IN EDUCATION (IJARIE)- ISSN(O)-2395-4396, Vol-7 Issue-4 2021

International Conferences:

- **K. Rama Abirami**; M. G. Sumithra; J. Rajasekaran, “An Enhanced Intrusion Detection System for Routing Attacks in MANET” was presented in an IEEE International Conference on Advanced Computing and Communication Systems (ICACCS), which was held on 19th – 21st December 2013 at Sri Eshwar College of Engineering, Coimbatore. (IEEE Explore). DOI: 10.1109/ICACCS.2013.6938709.
- Presented a paper titled “Efficient Identification of a Person by Combining Left and Right Palm Print” in an International Conference On Computational Machine Analytics on 11th March 2015 at Sri Subramanya College of Engineering and Technology, Palani.
- **K. Rama Abirami**, M.G. Sumithra, “Analytical Study on the Impact of Selfish Node Behaviors Attack And Black Hole Attack Under Manet”, International Conference On Research Advances In Electrical, Electronics And Communication at St. Ann's College of Engineering & Technology , Chirala, on 19th March 2016.
- **K. Rama Abirami**, M.G. Sumithra, “Analytical Study for the Influence of Selfish and Black Hole Attack on the Performance of MANET”, International Conference on Electrical, Electronics and Computer Engineering at Vivekanandha College of engineering for Women, Trichengodu on 22nd & 23rd March 2016.
- **K. Rama Abirami**, M.G. Sumithra, “An Enhanced Study on the Simulation of Selfish Behavior Attack and Black hole Attack on the Performance of Mobile Ad Hoc Network”, at 6th International Conference on Innovative Trends in Engineering, Life Science and Business on 26 & 27th Aug 2016 at Chennai, India organized by International Organization of Scientific Research and Development (IOSRD).
- **Dr.K.Rama Abirami** presented a paper titled “Integrating Blockchain for Data Sharing using Tree Based Data Processing in Vanet Applications” in a 3rd International conference on Inter disciplinary Research organized by Institute For Engineering Research and Publication (IFERP) held on 17th and 18th July 2020.
- **K. Rama Abirami**, G.Ram Sundar, “An Enhanced and highly Authenticated Medical Treatment for an Emergency Management System using Cloud Computing”, ICEEICT 2022 IEEE Conference (Accepted), Registration completed, Conference date 16-18 Feb 2022.

National Conferences:

- Presented paper on Control, Communication and System Engineering held on 14th September 2012 at Tamilnadu College of engineering, Coimbatore.
- Presented paper on Information, Networking and Communication Technologies held on 19th & 20th Oct 2012 at Dr.Mahalingam College of Engineering and Technology, Coimbatore.
- Presented a paper titled “Risk Identification -Isolation for MANET Routing Attacks” in the National Conference held on 23rd February 2013 at Jansons Institute of Technology, Coimbatore.
- Presented a paper titled “Misbehavior routing and attacks in disruption tolerant network using ITRM algorithm” in the National Conference held on 15th March 2013 at Sri Subramanya College of Engineering and Technology, Palani.

- Presented a paper titled “An Enhanced Intrusion Based Technique to Provide Security in Mobile Ad-Hoc Networks” in the National Conference held on 20th April 2013 at SVS College of Engineering, Coimbatore.

Conference Attended

- Participated in an **International Thirukkural Conference 2022** on **07.01.2022** which was organized by **Kural Malai Sangam Chennai** at **Sri Krishna Arts and Science College Coimbatore**.

Seminar Attended

Workshop Attended

Patents published with All Details

1.**Name of the Inventor:** Ms.B.Jeyapoornima, Dr.G.Charulatha, Dr.M.Shobana, Mr.C.Gokul Prasad, **Dr.Rama Abirami K**, Dr.Konguvel E, Mrs. Justina, Mr.Sathiyandrakumar, Dr.R.Ramya, Ms.Muruga Priya

Application No. 202241007993

Title: IOT based Secured and Energy – Efficient Routing Protocols using Wireless Sensor Networks (WSNs)

Publication Date: 15/02/2022

2.**Name of the Inventor:** Ms. S.Biruntha, N.Pooranam, Nagajothi S, Ms. Boopala, **Dr.K.Rama Abirami**

Application No. 202141054837

Title: IOT Based Smart Hands Talk

Publication Date: 10.12.2021

3.**Name of the Inventor:** Dr. D. Prabha, Dr. A. Pushpalatha, Ms. K. Devipriya, Dr. T. Latha Maheswari, **Dr. K. Rama Abirami**, Ms. Sophia. B, Dr. V. Vijeya Kaveri, Ms. S. Mohana Gowri, Ms. P. Anitha, Ms. Sruthi Anand

Application No. 202141031086 A

Title: FABRIC DEFECT DETECTION USING DEEP CONVOLUTIONAL NEURAL NETWORK AND MONITORING WITH INDUSTRIAL INTERNET OF THINGS

Publication Date: 16/7/2021

4.**Name of the Inventor:** Dr. N.Parvatham, Mukundasamy, Bharathi, Sungeetha, Dr.N.Susila, Dr.K.Rama Abirami,

Application No. 202141008418 A

Title: Design and Fabrication of Low cost Breath Monitoring system using Arduino UNO in IOT Platform

Publication Date: 12/03/2021

5.**Name of the Inventor:** Dr.H.Azath, Dr.J.Janet, Dr.K.Rama Abirami, B.Sophia, Shamila, Laxmi Raja

Application No.201941047929 A

Title of the invention : System For Internal Environment Maintenance For Large Buildings With Noise Absorption Module

Publication Date: 06/12/2019

Research Grants fetched with File No.

Student Project Funds Fetched with Grant No.

Consultancy Amount Fetched with Details

Awards

Academic Activity

Faculty Development Activity/Workshops

- Attended two day work shop on “How to setup private cloud for IaaS Application” at Sri Krishna College of engineering from 27th – 28th November 2010.
- Attended two day work shop on “Next Generation Networks and its Applications for Green Computing” at Anna University of Technology, Coimbatore from 16th – 17th December 2010.
- Attended three Days workshop on “Recent trends and research challenges in Wireless Networks” at PSG College of Technology, Coimbatore from (28th – 30 September 2012)
- Attended a one day “National level Research Seminar” on 13th Feb 2013 at SNS College of Engineering, Coimbatore.
- Attended a two day “Workshop on Network Simulation Tools” on 1st and 2nd March 2013 at Anna University, Chennai.
- Attended a one day “National level Research Seminar on Research Process” on 13th September 2013 at Sri Eshwar College of Engineering, Coimbatore.
- Attended a two days “National Workshop on Network Simulation using NS2 (Hands-on Training)” on 12th and 13th November 2013 at Anna University, Regional Centre Coimbatore, Coimbatore.
- Attended one day seminar on “An Effective way of Writing Research Articles for Journals” at Sri Eshwar College of Engineering, Coimbatore on 01.02.2014.
- Attended a “TEQIP II Sponsored One day Hands-on Training in Effective Research Documentation Using LATEX” on 28th June 2014 at PSG College of Technology, Coimbatore.
- Attended a two days International Research Seminar on “Enhanced Research with Targeted Results” on 13th and 14th August 2014 at SNS College of Technology, Coimbatore.

- Attended a one day International Seminar on “Smart City Planning Using Geographical Information Systems” on 10th December 2014 at PSNA College of Engineering and Technology, Dindigul.
- Attended a one day National Seminar on “Intelligent Data Engineering” on 11th February 2015 at PSNA College of Engineering and Technology, Dindigul.
- Attended a one day “Hands-on Training using MATLAB” on 22nd September 2015 at PSNA College of Engineering & Technology, Dindigul.
- Attended a two-day workshop on “Network Simulator (NS2) for Wireless Networks” on 29th and 30th September 2015 at PSNA College of Engineering and Technology, Dindigul.
- Attended One day FDP on “A Search for Research” on 27.7.2019 at Sri Krishna College of Engineering and Technology, Coimbatore.
- Attended one week FDP on “PYTHON & LaTeX THROUGH MOOCs- SPOKEN TUTORIAL PROJECT- IIT, BOMBAY” from 23rd April, 2020 to 29th April, 2020 by VELLALAR COLLEGE FOR WOMEN, ERODE.
- Participated in 5 days Virtual FDP on “Recent Trends in Biomedical Engineering – Research Perspective” from April 26th 2020 to April 30th 2020 organized by Dr.NGP Institute of Technology, Coimbatore in Association with MHRD-IIC and IQAC.
- Attended 7 days international seminar on (Webinar Series) on “Strategic Roadmap towards Industry 4.0”, from 1st June 2020 to 7th June 2020 conducted by Nallamuthu Gounder Mahalingam College, Pollachi.
- Participated in “National Level Online Bootcamp of career building with Python” from 1st June 2020 to 7th June 2020 conducted by Codegnan IT Solutions OPC Pvt.Ltd.
- Participated in International webinar on “Distributed Production management for E-Commerce database” on 17.07.2020 organized by Cyber Physical Systems Group, KPR Institute of Engineering and Technology, Coimbatore.
- Participated in Live Webinar Series 2.0 titled “DEMYSTIFYING DATA SCIENCE AI AND ML” Institution’s Innovation Council of Dr.N.G.P. Institute of Technology on 23.07.2020.
- Participated in AICTE Training And Learning (ATAL) Academy Online FDP on "Data Sciences" from 30-04-2020 to 04-05-2020 at Dr. Babasaheb Ambedkar Technological University, Lonere.
- Participated in AICTE Training And Learning (ATAL) Academy Online FDP on "Augmented Reality (AR) / Virtual Reality (VR)" from 18-05-2020 to 22-05-2020 at Punjab Engineering College (Deemed to be University).
- AICTE Sponsored One- Week Online Short Term Training Program on Advances in Biomedical Signal Processing with Hands-on', from 7th September to 12th September 2020, organized by Maharshi Karve Stree Shikshan Samstha’s Cummins College of Engineering for Women, Pune.
- Participated in AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-12-7 to 2020-12-11 at Indian Institute of Information Technology Kottayam.
- Participated in AICTE Training And Learning (ATAL) Academy Online FDP on "Towards 5G Communications & Beyond with IoT, Machine Learning" from 2020-11-23 to 2020-11-27 at Goa College of Engineering.

- Participated in AICTE-ISTE approved Orientation/Refresher Programme on “Deep Learning” held during 14.12.2020 to 19.12.2020 organized by Birla Institute of Technology, Ranchi, Jharkhand
- Participated in AICTE Training And Learning (ATAL) Academy Online FDP on "Cyber Security" from 2021-1-18 to 2021-1-22 at University College of Engineering, Osmania University.
- Participated in AICTE Training and Learning (ATAL) Academy Online FDP on “Cryptography and cyber security” by National Institute of Technology Agartala from 2021-07-26 to 2021-07-30.
- Participated in the Online Training Programme on "Relational Database Management Systems" Conducted by NITTTR Chennai from 11.10.2021 to 13.10.2021 (One Week).
- Participated in AICTE Training and Learning (ATAL) Academy Online FDP on “Fog and Edge Computing Challenges and Research Directions” from 26/10/2021 to 30/10/2021 at National Institute of Technology Sikkim.
- Participated in two days Online Workshop on Deep Learning Networks for Image Processing which was conducted by IEEE India Council from 22.12.2021 to 23.12.2021.

Contact Details

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