

Dr.M.Vinoth Kumar, B.E(CSE)., M.E(CSE).,Ph.D., SMIEEE.,

Associate Professor

Department of Information Science and Engineering,
RV Institute of Technology and Management
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Career Objective:

To pursue a professionally challenging position in order to contribute and develop the career in the area of teaching, research and mentoring where I can grow along with the Institution with greater responsibility.

Summary:

❖ Total Experience :20 Years 7 Months

After Ph.D : 10 years, 6 Month
After P.G : 7 years, 11 Months
Before P.G : 2 years, 2 Months

❖ Research Supervisor in Visvesvaraya Technological University, Bangalore.

[Guideship No.: VTU04185888]

❖ 12 Indian Patent filed [6 Granted, 5 Published and 1 filed]

❖ Published 66 technical papers in the field of Machine Learning, Blockchain Technology, Data Mining, Computer networks, Sensor Networks and Signal processing.

- International Journals – 28 [SCI, Web of Science, Scopus and UGC listed]
- International Conferences – 26
- National Conferences – 07
- Book publications – 04
- Invited Talk – 13

❖ Academic Excellence Award 2020 by Institute of Scholars.

❖ Member of the Board of Studies (BoS), Bharathiar University, Coimbatore.

❖ Member of the Board of Studies (BoS), Marudhar Kesari Jain College for Women.

❖ Editorial Board Member and Reviewer of peer reviewed international journals.

❖ Technical programming Committee member for the International Conferences.

❖ IEEE Senior member and Branch Counselor for RVITM – IEEE Student Branch.

❖ MoE – IIC Innovation Ambassador for Intellectual Property Rights (IPR)

- ❖ **Editor** in CRC Press, Taylor and Francis group.
- ❖ Conference / Hackathons / Seminars / Symposiums Organized - **09**
- ❖ Submitted funding proposal in AICTE, DST, VGST and other funding agencies.

PROFESSIONAL EXPERIENCE

Oct 2021 –till date:	Associate Professor Department of Information science and Engineering RV Institute of Technology and Management (Affiliated to VTU University, Belagavi, Karnataka.)
Jan 2018 –Sep 2021:	Associate Professor Department of Information science and Engineering Dayananda Sagar Academy of Technology and Management (Affiliated to VTU University, Belagavi, Karnataka.)
Sept 2015 – Jan 2018:	Professor Department of Computer Science and Engineering A V S Engineering College, Salem, Tamilnadu (Affiliated to ANNA University, Chennai, Tamilnadu)
July 2014 – Aug 2015:	Professor Department of Computer Science and Engineering A V S College of Technology, Salem, Tamilnadu (Affiliated to ANNA University, Chennai, Tamilnadu)
Jan 2012 - June 2014:	Associate Professor Department of Computer Science and Engineering, K.S.R College of Engineering, Tiruchengode, Tamilnadu (Affiliated to ANNA University, Chennai, Tamilnadu)
Nov 2009– Dec 2011:	Assistant Professor Department of Computer Science and Engineering, Jayam College of Engineering and Technology, Dharmapuri, Tamilnadu, (Affiliated to ANNA University, Chennai, Tamilnadu)
Jun 2006 - Dec 2009:	Assistant Professor Department of Computer Science and Engineering, Jayam College of Engineering and Technology, Dharmapuri, Tamilnadu, (Affiliated to ANNA University, Chennai, Tamilnadu)
Jul 2002 - Sept 2004:	Lecturer Department of Computer Science and Engineering, Jayam College of Engineering and Technology, Dharmapuri, Tamilnadu, (Affiliated to ANNA University, Chennai, Tamilnadu)

EDUCATION

Ph.D	[2014]	Computer Science and Engineering Thesis Title: Intelligent Agents for extracting Interesting Information using Mining Algorithm. University : Anna University (Govt), Chennai. Mode of Study: Part Time
M.E [CSE]	[2006]	Computer Science and Engineering University :Anna University (Govt), Chennai. Percentage :75.3 (First class) Mode of Study: Full Time
B.E[CSE]	[2002]	Computer Science and Engineering University : Periyar University (Govt), Salem. Percentage : 63.5 (First class)

FUNDING

S.No	Project Title	Funding Agency	Status	Date
1	AICTE-ISTE Induction/ Refresher Program under AICTE-ISTE	AICTE, New Delhi.	Sanctioned	September 2021
2	FDP on Software Engineering and Quality Assurance	Anna University	Completed	May 2009
3	FDP on Bio medial Engineering	All India Council for Technical Education (AICTE)	Completed	June 2007

Patent filed/Granted : 12

Patents Granted:

1. Granted a Patent titled on "Face mask" with Patent number: 314280-001, at Controller general of Patent, Designs and Trademarks, Calcutta, India on 08.03.2019.
2. Granted a Patent titled on "Artificial Electronics Hand with Electromyographic Signals" with Patent number: 375563-001, at The Patent Office, Calcutta, India on 13.05.2023.
3. Granted a Patent titled on "Escalator Cleaning Robotic Device" with Patent number: 353676-001, at The Patent Office, Calcutta, India on 14.05.2023.
4. Granted a Patent titled on "AI based driver drowsiness Detecting device" Design No: 382013-001 at The Patent Office, Calcutta, India on 06.06.23
5. Granted a Patent titled on "Smart Device For Teaching Mathematics To The Blind Students" Design No: 6355226 at Intellectual Property Office, UK on 04.04.2024.

6. Granted a Patent titled on "AI based Smart Pharmacological Testing Device for Evaluation of Drug Efficacy and Safety" Design No: 6437967 at Intellectual Property Office, UK on 23.04.2025.

Patents Published:

1. Published a Patent titled on "Automatic flushing System" with Patent number: 202041009261, at The Patent Office, Chennai, India on 13.03.2020
2. Published a Patent titled on "Method for phishing URL Detection using Hybrid Machine Learning and fuzzy logic." with Patent number: 201941050222, at The Patent Office, Chennai, India on 13.12.2019.
3. Published a Patent titled on "Biometric Authentication based Computer Implemented method for secure and easy automatic generating Demand Draft / Pay Order" with Patent number: 201941036392, at The Patent Office, Chennai, India on 20.09.2019.
4. Published a Patent titled on "Method for design of current differencing buffered amplifier using computing device" with Patent number: 201911023802, at The Patent Office, Chennai, India on 28.06.2019.
5. Published a Patent titled on "Neural network-based optimization method for Injection molding manufacturing" with Patent number: 201941024047, at The Patent Office, Chennai, India on 05.07.2019.

Patents filed:

1. Filed a design Patent titled on "Sticky note printer" with Patent number: 453291-001, at The Patent Office, Calcutta, India on 27.03.2025

Intellectual Property Rights (IPR) activities

- **Inaugurated IPR Cell** of RV Institute of Technology and Management (RVITM) on 26.04.2022 as a chief IPR cell coordinator of RVITM for filing patents and other IPs of RVITM.
- **Resource Person** for One day webinar on "World Intellectual property Day" on 26.04.2022 for the students of CSE Department conducted by Mahendra Engineering College, Salem, Tamilnadu.
- Participated Five Days virtual program on "File your Own patent" Organized by Annamalai Innovations and Research Foundation EDII in collaboration with Cell for IPR promotion and management (CIPAM) from 23.03.2022 to 28.03.2022

- **Resource Person** for One day webinar on "Patent facilitation and Awareness" on 10.03.2022 for the students of Artificial Intelligence Department conducted by M.Kumarasamy College of Engineering, Karur, Tamilnadu.
- Undergone **Innovation Ambassador** training (Foundation level) conducted by MoE's Innovation Cell and AICTE from 30.06.2021 to 30.07.2021.
- **Resource Person** one-week International FDP on "Recent Trends in Computer Science and it's Research Perspectives - RTCSIRP 2020" in the topic of intellectual Property Rights" on 12.06.2020 conducted Marudhar Kesari Jain College for Women, Vaniyambadi from 10.06.2020 to 16.06.2020.
- Inaugurated **IPR cell** in Dayanananda Sagar Academy of Technology and Management on 24.08.2019 in associated with Embware Labs, Bangalore on 24.08.2019 and act as a **Chief Coordinator** for filing patents and other IPs of DSATM.

Intellectual Property Rights (IPR) events Organized

- One Day Seminar on "IP and Academia" conducted by IPR Cell-RVITM on 26th April 2025 in association with PrasaIP LLP, Bangalore.
- Coordinated Intellectual Property Awareness Program at RV Institute of technology and Management, Bangalore under National Intellectual Property Awareness Mission on 20.07.2022 jointly organized by Intellectual Property Office and MoE's Innovation Cell, India.
- One Day webinar on "Why IP is Important in Academia?" Conducted by Embware Labs, Bangalore on 26.04.2021.
- Three Days Faculty Development Programme on "Converting Ideas into Patent Assets" conducted by IPR Cell-DSATM on 16th, 23rd and 29th August 2020 in association with Embware Labs, Bangalore.
- One Day workshop on "Intellectual property Rights" conducted by IPR Cell-DSATM on 23 November 2019 in association with Embware Labs, Bangalore.
- One Day seminar on "Research Publications, Grants and IPR" Conducted by Technical Institute for Engineers, Bangalore on 08.03.2019.

Area of Interest :

- Machine learning
- Blockchain Technology
- Data mining and Data Warehousing

- Intelligent Systems
- Software Project Management
- Open Source Software

Award

- Academic Excellence Award 2020 by Institute of Scholars
(An Institute by International Accurate Certification, Accredited by UASL)

Resource Person / Invited Talk

- Resource person for the Expert talk on "Smart Machine and Smart World: AI and ML shaping the future on 05/05/2025 conducted by the Department of Computer Science and Engineering, Mahendra Engineering College for Women, Tiruchengode.
- Invited as a speaker for the AICTE ATAL sponsored FDP on "The Future of Quantum Computing and High-Performance Computing (HPC)." Conducted by P.S.V. College of Engineering and Technology, Krishnagiri, Tamilnadu. Handled the 13th session on "The Future of Quantum Computing in Computer Science Research" on 28th December 2024.
- Resource Person of the AICTE Sponsored ATAL FDP on the theme " Basic Mathematical and statistical foundation for cybernetics, criminal laws and cyber security" from 04.12.23 to 09.12.2023 and delivered a lecture titled " Next-Gen Cybersecurity Technologies, Cybersecurity Policies" on 07.12.2023 conducted by City Engineering College, Bangalore.
- Resource Person of the AICTE Sponsored ATAL FDP on the theme "The Futuristic View of Semiconductor Devices in Healthcare Applications Using AI & ML: Research Issues and Challenges" during 16.10.23 to 21.10.2023 and delivered a lecture titled "Deep Learning for Segmentation and Classification of Medical Images" on 17.10.2023 conducted by Mahendra Engineering College, Salem, Tamilnadu.
- Resource person for the Workshop on "Intellectual Property Rights (IPR) on 04/08/2023 conducted by the Department of Information Science and Engineering, City Engineering College, Bangalore in association with Institution's Innovation Council (IIC).
- Resource person for two days NAAC Sponsored National level seminar on "Perspectives of Outcome Based Education(OBE) and NAAC Accreditation on the topic "Blooms Taxonomy: Lower-Order To Higher-Order Thinking Skills" organized by Internal Quality Assurance Cell, K.S.R College of Arts and Science(Autonomous), Tiruchengode, Tamil Nādu on 25th January 2023.
- Resource Person for One day National level technical Symposium conducted by the Department of CSE, Kuppam Engineering College, Kuppam on 03.12.2022.

- Resource Person for Three day workshop on "Cyber Security and Blockchain Technology" in the topic of "Industrial use of Blockchain Technology" on 28.01.2022 conducted by Arunai Engineering Colleg, Thiruvannamalai from 27.01.2022 to 29.01.2022.
- Resource Person for Three day workshop on "Emerging Trends in Computing Technologies" in the topic of "Cloud Computing" on 25.08.2021 conducted by Sethu Institute of Technology, Kariapatti from 23.08.2021 to 25.08.2021.
- Resource Person for ATAL sponsored Faculty Development Program on "Management Information Systems" in the topic of "Semantic Indexing" on 08.01.2021 conducted by Mepco Shelink Engineering College, Sivakasi from 04.01.2021 to 08.01.2021.
- Resource Person for One day webinar on "Machine learning and its Applications" on 12.12.2020 for the faculty members and students of CSE departments from various Institutions conducted by K.S.K.College of Engineering and Technology, Kumbakonam, Tamilnadu.
- One of the Review Committee Member of **Mock review of NBA** work conducted on 02.03.2020 at Vemana Institute of Technology, Bangalore.
- Delivered **Guest Lecture** on "Artificial Intelligence" at Mahendra Engineering College, Salem, Tamilnadu on 28.01.2019

Sessions/Symposium chaired Organized	: 11
Faculty Development Program Organized	: 14
Conference Organized	: 04
International Journal Publications	: 27
Patents	: 12
International Conferences	: 26
National Conferences	: 07
Hackathon Conducted	: 01
Total Research Paper published	: 64
Project guided for Post Graduate level	: 22
Project guided for Under Graduate level	: 42

Journal/Conference Editorial Member

- International Advanced Research Journal of Engineering and Technology (IARJET) ISSN: 2583-0813 open access peer review International Journal.

Conferences/Session Chair

- Session chair for International Conference on The Confluence of Advancement in Robotics, Vision and Interdisciplinary Management IC-RVITM 2023 conducted by RVITM on 28th and 29th November 2023.
- Session chair for the IEEE International Conference on Applied Intelligence and Sustainable Computing (ICAISC-2023) organized by Shri Dharmasthala Manjunatheshwara College of Engineering and Technology, Dharwad on 16th & 17th June 2023.
- Session chair for Fourth Annual International Conference on Data Science, Machine Learning and Blockchain Technology (AICDMB-2023) on 16th March 2023 conducted by Vidyavardhaka College of Engineering, Mysuru.
- Session chair of track one of Technical paper presentation event on 03-12-2022 for One Day National Level Technical Symposium-2022 conducted by Kuppam Engineering College, Kuppam.
- Chief Guest in National Conference on Advanced computing (NCAC 2020) on 12.02.2020 held at Sri Vijay Vidyalaya College of Arts and Science, Dharmapuri.
- Acted as Session Chair in National Conference on Convergence of Science, Technology and Management (NCCSTM 17) on 07/05/2018 held at Dayananda Sagar Academy of Technology and management, Bangalore.

Conference Scientific committee Member

- 3rd International Conference on Advancements in Smart Computing & Information Security (ASCIS 2024) Organised by Faculty of Computer Applications, Marwadi University, Rajkot, Gujarat in collaboration with Springer CCIS & Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India. 16th-18th October, 2024.
- 2nd International Conference on Advancements in Smart Computing & Information Security (ASCIS 2023) Organized by Faculty of Computer Applications, Marwadi University, Rajkot, Gujarat in collaboration with Springer CCIS & Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India. during December 7-9, 2023.
- International Conference on Knowledge Collaboration in Engineering 2023 organized by ASDF INT was Technically Co-Sponsored by the Association of Scientists, Developers and Faculties (ASDF) happened at Coimbatore, India, on 28 - 29 September 2023.

- International Conference on Innovations and new product development through smart Technologies (ICINPDST-2023) organized by Jansons Institute of Technology, Coimbatore on 6th May 2023.
- International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET-2023)

Journal/Conference Reviewer

- Reviewer for IEEE sponsored International Conference on Data Science and Business Systems Held on 17th and 18th of April 2025 at SRM University – KTR Campus, Chennai.
- Reviewer for the International Conference on Intelligence systems and Computational Networks (ICISCN – 2025) Organised by Lingraj Appa Engineering College, Bidar, 24th-25th January , 2025.
- Technical Program Committee member and reviewer for 3rd International Conference on Advancements in Smart Computing & Information Security (ASCIS 2024) Organised by Faculty of Computer Applications, Marwadi University, Rajkot, Gujarat in collaboration with Springer CCIS & Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India. 16th-18th October, 2024.
- International Multi-Conference on Advances in Information Technology, Communication and Energy Systems-AITCES 2024, organized by Dr. Ambedkar Institute of Technology, Bengaluru during 23rd to 24th January 2024.
- AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.
- IEEE Mysurucon 2022-The 2nd Edition of the Mysore Subsection Flagship International Conference on 16th & 17th October 2022.
- 2nd International Conference on Mobile Networks and Wireless Communications (ICMNWC-2022), organized by the Sri Siddhartha Institute of Technology, Tumakuru, India in association with IEEE Bangalore Section on 2nd-3rd December, 2022.
- Reviewer in 2nd International Conference on Mobile Networks and Wireless Communications (ICMNWC-2022), organized by the Sri Siddhartha Institute of Technology, Tumakuru, India in association with IEEE Bangalore Section on 2nd-3rd December, 2022.
- Reviewer in IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE- 2022) on 23rd-24th April 2022 Organized Ballari Institute of

Technology and Management, Ballari, India in association with IEEE Bangalore Section and IEEE Information Society.

- Reviewer in Journal of Engineering Technology and Innovative Research, ISSN:2349-5162.
- Reviewer in International Conference on Mobile Networks and Wireless Communications (ICMNWC-2021) on 03 and 04 December 2021 conducted by Sri Siddhartha Institute Of Technology, Tumkur in association with IEEE Bangalore Section and Co-Sponsored by Technical Institute For Engineers (TIE)
- Reviewer in Journal of Medical Systems, Springer, ISSN: 1573-689X.
- Reviewer in Journal of Computers and Electrical Engineering, Elsevier, ISSN: 0045-7906.
- Expert Reviewer with Academic Exchange Information Centre(AEIC)
- Reviewer in International Journal of Computer Applications in Technology, InderScience, ISSN; 1741-5047.(ICCTCHIT 2020) on 10th & 11th December 2020 at K.S.R. Engineering College, Tiruchengode.

Online Certifications

- Online course on "Getting started with DevOps" by Simplilearn (Certificate code : 3598163)
- Online Certification on "Cloud Computing Basics" by Coursera
- Online Course on " Python with Data Science and Machine Learning" by ITronixs Solutions.(No. 3b6d0f24c2)
- Global certification on "AWS Certified Cloud Practitioner" by Amazon
- Certified as ISO 9001 Quality Management System Associate by SkillFront (No.96564962612181)
- Certification on "Python for Data Science" powered by IBM Developers Skill Networks
- Certification on 'Big Data Computing' by NPTEL Online Certification, funded by The Ministry of HRD, Govt. of India.
- 'Certified Peer Review Course' by Researcher Academy, Elsevier.
- Certification on 'Writing Skills' by Researcher Academy, Elsevier.
- Creating Web App and Containerized App using ACK conducted by Multicloud4U Technologies

Administration

- As the Head of Department, responsible for the Academic, Administration and Accounts of the Department
- Coordinator for Students Projects, International and National Conference, FDP and Training programs.

- Intellectual Property Rights Chief Coordinator
- MoE – IIC Innovation Ambassador for IPR
- Entrepreneurship Cell Coordinator
- NBA & NAAC Department Coordinator
- Students Project Coordinator
- FDP Coordinator
- RVITM-Research Advisory Committee member

Research Publications

Editor:

- 1) Editor for the Book titled on “Machine Learning and IoT for Intelligent Systems and Smart Applications”, ID: 451664, CRC Press, Taylor and Francis Group.
- 2) Dr. Vinoth Kumar M, Mr. Anjaneya Krishna Turai, Mr. Nithesh Derin Joan O, Mr. Sathyendra Bhat J “Artificial Intelligence and Machine Learning - An Industrial Perspective”, ISBN: 978-93-5625-542-5.

Book Chapters

- 1) **Dr. M. Vinoth Kumar**, “Automatic Detection and Classification of Lung Nodules in CT Images” Book titled on Data Intelligence and Cognitive Informatics. Algorithms for Intelligent Systems. Springer, Singapore, January 2022. https://doi.org/10.1007/978-981-16-6460-1_48.
- 2) **Dr.M.Vinoth Kumar**, “Implementation on fake news analysis using Machine learning approaches”, Book titled on Machine learning and its applications, ISBN: 978-93-86923-47-9, Dipti press OPC Pvt. Ltd., Chennai, October 2020.

Research Publications

International Journal Publications

- 1) Babu Kumar S., **M. Vinoth Kumar**, “Lung cancer detection and classification with optimal feature selection and two-fold-deep-learning-classifiers”, Multimedia Tools and Applications, , doi.org/10.1007/s11042-025-20947-3, June 2025 **[SCI indexed Q1 journal]**
- 2) A Pruthvi Kumar, Manjunath K Neeralakeri, Madhumathy P, **Vinoth Kumar M**, “AI-Enhanced Quantum-Assisted Wireless Communication for 6G Networks”, Journal of

Advancement in Electronics Design, vol 8, no 1, ISSN: 2584-2943, DOI: <https://doi.org/10.5281/zenodo.14753394>, pp 26-35, January 2025.

- 3) **Dr. Vinoth Kumar M**, "Automated lung cancer T-Stage detection and classification using improved U-Net model", International Journal of Electrical and Computer Engineering (IJECE), Vol. 14, No. 6, December 2024, pp. 6817-6826. **[Scopus]**
- 4) **Dr. Vinoth Kumar M**, "Analysis of Extreme Learning Machine Based on Multiple Hidden Layers", International Journal of Intelligent Systems and Applications in Engineering, 12(9s), 96–103, December 2023. **[Scopus]**
- 5) **Dr. Vinoth Kumar M**, B.R. Supreeth, M. Hariprabhu, G. Manikandan "Fuzzy logic-based fault detection in containerized data centers using digital twins", Journal of Intelligent & Fuzzy Systems, ISSN: 1875-8967, 21st December 2023, vol 46, No 1, Q2 Journal. **[SCI Indexed]**
- 6) **Dr. M Vinoth Kumar**, "Impact of cloud computing challenges and solutions in maintaining security", Journal of Applied Science and Computations, ISSN: 1076-5131, pp 193-208, vol. 10, no. 3, 2023.
- 7) **Dr. M. Vinoth Kumar**, "Detection and Classification of Lung Cancer using Deep Neural Network" International Journal of Medical Engineering and Informatics, ISSN: 1755-0661. **[Scopus]**
- 8) **Vinoth Kumar M**, "A comparative study between collaborative filtering and content-based recommendation", International Journal of System Design and Information Processing (IJS DIP), ISSN: 2321-0591, pp 242-252, vol. 11, no. 4, 2023.
- 9) **Dr. M Vinoth Kumar**, Dr. Kiran Kumar, Dr. Ajina "Issues of using Machine Learning and unethical data collection in large corporations to identify functional error", International Journal of Engineering & Science Research, I SSN: 2277-2685, pp 11-105, vol. 13, no. 2, 2023.
- 10) G. Rajeshkumar, **M. Vinoth Kumar**, K. Sailaja Kumar, Surbhi Bhatia, Arwa Mashat and Pankaj Dadheech "An Improved Multi-Objective Particle Swarm Optimization Routing on MANET" Computer Systems Science & Engineering ISSN: 0267-6192, Tech Science Press Vol.44, No.2, 2023, pp.1187-1200, doi:10.32604/csse.2023.026137 **[SCI Indexed]**
- 11) **Vinoth Kumar M**, "Impact of cloud computing challenges and solutions in maintaining security", Journal of Applied Science and Computations, ISSN: 1076-5131, pp 193-208, vol. 10, no. 3, 2023.
- 12) **M. Vinoth Kumar**, M. Prakash, M. Naresh Kumar, H. Abdul Shabeer "Enhanced Long Short Term Memory for Early Alzheimer's Disease Prediction" Intelligent Automation & Soft

Computing ISSN: 2326-005X , vol.35, no.2, Tech Science Press. DOI: 10.32604/iasc.2023.025591 **[SCI Indexed]**

- 13) K. Rajakumari, M. Vinoth Kumar, Garima Verma, S. Balu "Fuzzy based Ant Colony Optimization Scheduling in Cloud Computing", Syst. Sci. Eng., vol. 40, no. 2, pp. 581-592, 2022. <https://doi.org/10.32604/csse.2022.019175> **[SCI Indexed]**
- 14) **Dr. M. Vinoth Kumar**, "Deep Learning based Leaf disease Identification using PNAS – Progressive Neural Architecture", Arabian Journal for Science and Engineering, Springer Publication. **[SCI Indexed]**
- 15) **Dr.M.Vinoth Kumar**, "Vehicle damage protection using sensors in image processing", Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2021.03.348>, March 2021. **[Scopus Indexed]**
- 16) **M. Vinoth Kumar**, "Survey On Lung Cancer Detection Using Convolutional Neural Networks", International Journal Of Advance Research And Innovative Ideas In Education (IJARIE), ISSN: 2395-4396, Volume-7 Issue-2, pp 802 – 807, March 2021.
- 17) **Dr.M.Vinoth Kumar**, "Future Prediction of Diabetics using XG Booster Classifiers", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Volume-9 Issue-3, pp 2128 – 2132, February 2020. **[Scopus Indexed]**
- 18) **Dr.M.Vinoth Kumar**, "An Intelligent Weather Monitoring System using Internet of Things", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-4, pp 4531 – 4536, November 2019. **[Scopus Indexed]**
- 19) **Dr.M.Vinoth Kumar**, "A Survey on Android Malware Detection Using Machine Learning", International Journal of Scientific Research and Review, ISSN:2279-0543 Vol.7, Issue No: 5, pp 105-114, May 2019. **[UGC – CARE]**
- 20) **Dr.M.Vinoth Kumar**, "Automation and Control of Irrigation System in Precision Agriculture using Internet of Things", Journal of Advanced Research in Dynamical & Control Systems (JARDCS), ISSN: 1943-023X Vol.10, Issue No: 13, pp 1724-1731, October 2018. **[Scopus Indexed]**
- 21) **Dr.M.Vinoth Kumar**, N. Girish, S. babu Kumar "Machine Learning Approaches for Data analytics and Modeling: A Comprehensive Study", International Journal of Engineering Research in Computer Science and Engineering(IJERCSE), ISSN: 2394-2320, Vol.5, Issue No: 5, May 2018.
- 22) **Dr.M.Vinoth Kumar** and **Dr. G. Tholkappia Arasu**, "GPS based Mobicast Routing Protocol for Underwater Sensor Networks", Asian Journal of Research in Social Sciences and Humanities, ISSN: 2249-7315, Vol.6, Issue No: 10, October 2016.

- 23) **Dr.M.Vinoth Kumar and Dr. T. Lalitha**, "Soft Computing: Fuzzy Logic Approach in Wireless Sensors Networks", Circuits and Systems, ISSN: 2153-1285, Vol.7, pp.1242-1249, June 2016. **[Web of Science]**
- 24) **Dr.M.Vinoth Kumar**, "Fuzzy Relational Clustering Algorithm Based Multi-Agent Systems", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), ISSN: 2319-8753, Vol.3, Special Issue 2, pp.117-120, April 2014.
- 25) **Dr.M.Vinoth Kumar**, "Strength of Evolving Agent Population in MAS", International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), ISSN: 2320-9801, Vol.2, Special Issue 1, pp.2183-2189, March 2014.
- 26) **Dr.M.Vinoth Kumar**, "Analysis of Intelligent Data mining for Information Extraction using Java Agent Development Environment Platform" Journal of Computer Science (JCS), ISSN: 1549-3636, Vol. 9, No. 11, pp. 1451-1455, September 2013. **[Scopus Indexed]**
- 27) **Dr.M.Vinoth Kumar**, "Intelligent Agent for extracting Interesting Information using mining Algorithm" in International Review on Computers and Software (IRECOS). ISSN: 1829-6003, Vol. 8, No. 5, pp. 1126-1134, May 2013. **[Scopus Indexed]**
- 28) **Dr.M.Vinoth Kumar and K Manoj kumar**, "An Analysis on Denial of Service attacks and Packets Defending Methodologies in Wireless Sensor Networks" in International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE). ISSN: 2277 128X, Vol 2, No. 11, pp 52-55, November 2012.

International Conferences

- 1) **Vinoth Kumar M**, "Enhancing Fake News Detection with Recurrent Neural Networks: A Deep Learning approach", International Conference on New Trends in Science, Engineering, Technology and Management (ICNTSETM- 2025) 25 & 26 April 2025, Krishnagiri, Tamilnadu, [2025], pp 78.
- 2) **Vinoth Kumar M**, "Advances in Multi-turn dialogue systems: A comprehensive Survey on response selection techniques and model enhancements", International Conference on New Trends in Science, Engineering, Technology and Management (ICNTSETM- 2025) 25 & 26 April 2025, Krishnagiri, Tamilnadu, [2025], pp 82.
- 3) **Vinoth Kumar M**, "Blockchain-Based Certificate Generation and Validation System for Refugees," 2025 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangalore, India, 22 January 2025, pp.1-5,doi: 10.1109/IITCEE64140.2025.109154 62.

- 4) **Vinoth Kumar M**, "Predicting the Symptom Severity in Autism Spectrum Disorder Based on EEG Metrics", International Conference on New Trends in Science, Engineering, Technology and Management (ICNTSETM- 2024), Krishnagiri, Tamilnadu, [2024], pp 188.
- 5) **Vinoth Kumar M**, "FIFA Player Recommendation System Leveraging AI for Intelligent Player Selection in FIFA", International Conference on New Trends in Science, Engineering, Technology and Management (ICNTSETM- 2024) Krishnagiri, Tamilnadu, [2024], pp 45.
- 6) **Vinoth Kumar M**, "Discount based Cloud Resource Management using Cloud Broker" in International Conference on Recent Advancement in Science and Engineering RAiSE 2023 on 4th & 5th October 2023 conducted by Manipal Academy of Higher Education, Dubai.
- 7) **Vinoth Kumar M**, "Decentralized Blockchain As A Service Model For Cloud Based Security", International Conference on Computer Science and Emerging Technologies (CSET-2023), Jain (Deemed to be University), Bangalore, 10th -12th October 2023.
- 8) **Vinoth Kumar M** "Deepfake Detection in Authentication Systems: Advancements, Challenges, and Mitigation Strategies", 8th International conference on Engineering Research and Innovations (ICERI 2023) conducted by Terna Engineering college (TEC), Nerul, Navi Mumbai on 21st and 22nd September 2023.
- 9) **Vinoth Kumar M**, "A revolutionary method based on CNN-LSTM to characterize knee osteoarthritis from radiography", International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET – 2023) conducted by Jansons Institute of Technology, Coimbatore on 5th May 2023 in association with Institute for Engineering Research and Publications (IFERP).
- 10) **Vinoth Kumar M**, "Artificial Intelligence based Enhanced Drug Discovery in Pharmaceutical Industries", IEEE International Conference on Inventive Computation Technologies (ICICT 2023), Lalitpur, Nepal on 26th to 28th April 2023. DOI: 10.1109/ICICT57646.2023.10133944.
- 11) **Vinoth Kumar M**, " Improving Smart Home Safety with Face Recognition using Machine Learning ", IEEE International conference on Advances Electronics, Communication, Computing, and Intelligent Information Systems (ICAECIS-23), Bangalore Institute of Technology, IEEE Bangalore Section, Bengaluru, 19th April 2023.
- 12) **Dr.M.Vinoth Kumar**, "Automatic Detection and Classification of Lung Nodules in CT images", Springer 2nd International Conference on Data Intelligence and Cognitive Informatics (ICDICI – 2021), SCAD College of Engineering and Technology, Tirunelveli, 16-17 July 2021.

- 13) **Dr.M.Vinoth Kumar**, "Survey on Real-Time Face Mask Detector", AICTE Sponsored International Conference on Research Perspectives IoT in Hybrid Grid Integrated Renewable Energy Sources (ICRPHGIRES-2021), New Horizon College of Engineering, Bengaluru, ISBN 978-93-5457-285-2, 27 – 29 January 2021.
- 14) **Dr.M.Vinoth Kumar**, "ICSA-ECNN based image forgery detection in face images", IEEE 11th International Conference On Computer Communication And Informatics 2021 [ICCCI2021], Sri Sakthi Institute of Engineering and Technology, Coimbatore, Tamilnadu, 27 – 29 January 2021.
- 15) **Dr.M.Vinoth Kumar**, "Detection of Lung Nodules using Convolution Neural Network: A Review", 2nd Scopus-Indexed IEEE International Conference on Inventive Research in Computing Applications [ICIRCA 2020], Hotel Arcadia, Coimbatore, 15 July, 2020 – 17 July, 2020.
[Scopus Indexed]
- 16) **Dr.M.Vinoth Kumar**, "A Survey on Android Malware Detection Using Machine Learning", International Conference on Recent Innovations in Science, Engineering & Management (RISEM-2019), RR Institute of Technology, Bangalore, 10th May 2019, ISBN 978-93-87793-87-3, page 40-50.
- 17) **Dr.M.Vinoth Kumar**, "A Survey on Efficient Biometric Identification Scheme in Cloud Computing", Ninth International Conference on Recent Engineering and Technology (ICRET-2019), New Horizon College of Engineering, Bangalore. 5th May 2019, page 40-50.
- 18) **Dr.M.Vinoth Kumar**, "A Review on Machine Learning Big Data using R", International Conference on Inventive Communication and Computational Technologies (ICICCT 2018), 27th September 2018, IEEE Explore, ISBN 978-1-5386-1974-2, page 1873-1877.
[Scopus Indexed]
- 19) **Dr.M.Vinoth Kumar**, "Machine learning approaches for Data analytics and Modeling", International Conference on Applied Science Engineering and Technology in Sri Sairam College of Engineering, Bangalore, Proc.ICASET'17, pp.112, 17th & 18th May 2018.
- 20) **Dr.M.Vinoth Kumar**, "A Review on Machine Learning Big Data using R", 2nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018) in Coimbatore, Proc.ICICCT'18, pp.1873 - 1877, 20th & 21st April 2018.
- 21) **Dr.M.Vinoth Kumar**, "Strength of Evolving Agent Population in Multi-Agent System", International Conference on "Global Innovations in Computing Technology", in Jay Shriram Group of Institutions, Proc.ICGICT'14, pp.72, 6th & 7th March 2014.

- 22) **Dr.M.Vinoth Kumar**, "Evaluating Multi-agent System Fitness in Agent Population", First International conference on "Trends in Technology for Convergence", in AVS Engineering College, Proc.TITCON'14, pp.146, 8th & 9th April 2014
- 23) **Dr.M.Vinoth Kumar**, "Analysis Of Agent Based Programming For Important Information Extraction" in Sasurie College of Engineering, Tirupur.
- 24) **Dr.M.Vinoth Kumar**, "An Agent based tool for extracting information in distributed Networks" in J.K.K.Nadaraja College of Engineering and Technology, Erode
- 25) **Dr.M.Vinoth Kumar**, "Analysis of Intelligent Agent for artifact removal of EEG signals." in Vivekanantha College of Engineering for Women, Tiruchengode.
- 26) **Dr.M.Vinoth Kumar**, "Java Based Agent Tool in Multi Agent System for Bio signal Processing" in M.Kumarasamy College of Engineering, Karur.

National Conferences

- 1) **Dr.M.Vinoth Kumar**, "Security Issues in a Multi-Agent Distributed Goal Satisfaction System (MADGS)", National Conference on Computing Communication Technology and Science, in Muthayammal College of Engineering, Proc.NCCCTS'13, pp.337-340, 5th & 6th April 2013.
- 2) **Dr.M.Vinoth Kumar**, "Mining of Semantic Web Content By Using Clustering and Agent Based Framework", National Conference on "Advanced in Computing Communication, Electrical & Network Technologies", in Sengunthar Engineering College, Proc.ACCENT-2K13, 6th May 2013.
- 3) **Dr.M.Vinoth Kumar**, "Failure Inferencing based on IP FRR Mechanism for Handling failure in IP Networks" in K.S.R.College of Engineering, Tiruchengode
- 4) **Dr.M.Vinoth Kumar**, "Distributed Energy Efficient Clustering Algorithm for Wireless Sensor Networks" in Sri Sashta Institute of Engineering and Technology, Chennai.
- 5) **Dr.M.Vinoth Kumar**, "Efficient Fast Network Recovery for link and node failure using MRC" Surya Engineering College, Erode.
- 6) **Dr.M.Vinoth Kumar**, "Multi path secured Route Discovery in Mobile Ad Hoc Networks" in K.S.R.College of Engineering, Tiruchengode
- 7) **Dr.M.Vinoth Kumar**, "Face Recognition using Laplacian Faces" in Government College of Engineering, Salem.

Conference / Seminars / Symposiums/ Hackathon Organized

- **Faculty Coordinator** for the 5-Day FDP on “Full Stack Development: A Comprehensive Approach for Modern Web Applications” from 10th February 2025 to 14th February 2025 in RV Institute of Technology and Management **in association with IIT Guwahati.**
- **Faculty Coordinator** for the **national level STTP on Java Fullstack with react JS & AI** from 2nd to 22nd December 2024 organized by **BrainOVision Solutions India Pvt Ltd**, in association with ACIET New Delhi.
- **Faculty Coordinator** for the **International Student Workshop** on Data Science using Python from 19th to 23rd February 2024 organized by BrainOVision Solutions India Pvt Ltd, in association with ACIET New Delhi.
- **Five Days Faculty Development Programme** on “Outcome based Education” Organized in RV Institute of Technology and Management from 25.09.2023 to 30.09.2023.
- **Faculty Coordinator** for the national level FDP on Cloud Infrastructure(AWS) from 21st to 25th August 2023 organized by BrainOVision Solutions India Pvt Ltd, in association with ACIET New Delhi.
- **Three-Day Hands-on workshop** on “Mobile Application Development” for 3rd sem CSE and ISE Students from 6th to 8th February 2023 in association with Tackle D Pvt. Ltd, Bengaluru.
- **Five Days Faculty Development Programme** on “Advanced Tools and Techniques for best research” Organized in RV Institute of Technology and Management from 26.09.2022 to 30.09.2022.
- **One week National level Faculty Development Programme** on “Amazon Web Services” conducted by Brainovision Solutions India Pvt Ltd hosted by in RV Institute of Technology and Management from 22.08.2022 to 27.08.2022.
- **Inter-College 24 Hours Hackathon** – FantomCode 2022 at RV Institute of Technology and Management, Bangalore on 10th and 11th June 2022.
- **Five Days Faculty Development Programme** on ICT Tools for Innovative Teaching and Learning Process Organized in RV Institute of Technology and Management from 28th March to 1st April 2022.
- **Five Days Faculty Development Programme** on IoT and Cloud Applications Organized in Dayananda Sagar Academy of Technology and Management from 6th July 2020 to 10th July 2020.

- **Five Days Faculty Development Programme** on Advanced Blockchain Technology Organized in Dayananda Sagar Academy of Technology and management from 28th January 2020 to 2nd February 2020.
- **Five Days Faculty Development Programme** on Blockchain Technology Organized in Dayananda Sagar Academy of Technology and management from 28th June 2019 to 2nd July 2019.
- **Five Days Faculty Development Programme** on Big Data Analytics using hadoop Organized in DayanandaSagar Academy of Technology and management from 16th January 2019 to 20th January 2019.
- **Five Days Faculty Development Programme** on Machine learning using Python Organized in Dayananda Sagar Academy of Technology and management from 16th July 2018 to 20th July 2018.
- **Fourth National Conference** on Knowledge Based Scientific Research and Communication Engineering - 2014 (NCKSRCE'14), held on 15th March 2014", K.S.R. College of Engineering, (Autonomous).
- **14th ISTE National level Student Convention 2011** organized in Jayam College of Engineering and Technology. Dharmapuri.
- **22nd ISTE State level Student Symposium 2010** organized in Jayam College of Engineering and Technology. Dharmapuri.
- **National level Conference "TITCON - 2K4, 2K6 and 2K8"** organized in Jayam College of Engineering and Technology. Dharmapuri.

Professional Society Membership

Senior Member

- Institute of Electrical and Electronics Engineers(IEEE)
- Member No: 94794870
- Science and Engineering Institute (SCIEI)
- Member No: 20201202001

Life Member

- Computer Society of India (CSI)
Member No: I1505083
- Indian Society for Technical Education (ISTE)

Member No: LM 58496

- Institute of Engineers (IE (India))

Member No: M-1521675

- Indian Science Congress Association (ISCA)
- Member No: L27098

Professional member

- Association for Computing Machinery(ACM)
- Member No:6890365

Member

- International Association of Engineers (IAENG)
- Member NO: 126406
- Institute for Engineering Research and Publications (IFERP)
- Member NO: PM37569842

Member of Societies

- IAENG Society of Computer Science
- IAENG Society of Data Mining

Seminar / Workshop / Faculty Development Programme Attended

- 1)Participated in ATAL FDP on "Artificial Intelligence as a copilot in bridging the gap between Academia and Industry" from 25/11/2024 to 30/11/2024 Organized by Surana College, Bangalore.
- 2)Participated in 5 day FDP on "Artificial Intelligence and data Analytics" from 16.09.2024 to 20.09.2024 Organized by Madanapalle Institute of Technology and Science, Andra Pradesh.
- 3)Participated in IEEE Conference Management Workshop Organized by IEEE Bangalore section on 22.06.2024 at Dayananda Sagar College of Engineering, Bangalore.
- 4)Participated in 5 day FDP on "Outcome based Education" on 25, 27, 30th September and 3, 4th October 2023 at RV Institute of Technology and Management.
- 5)Participated in IEEE India Blockchain Forum from 08.09.2023 to 09.09.2023 at IISc, Bangalore.

- 6) Participated the national level FDP on Cloud Infrastructure(AWS) from 21st to 25th August 2023 organized by BrainOVision Solutions India Pvt Ltd, in association with ACIET New Delhi.
- 7) Participated in Three day FDP on Advanced Techniques in Machine Learning and Data Science(Online) from 21.06.2023 to 23.06.2023 organized by Institute for Engineering Research and Publication (IFERP).
- 8) Participated in IET-UK sponsored Six Day FDP on "Future research and Innovation Technologies" organized by IET Kanyakumari local network from 11th to 16th March 2023 (Certificate ID: AGVIRM-CE000170).
- 9) Participated in Three Day FDP on "Intellectual Property Rights (IPR) and IP Management" organized by Institute for Engineering Research and Publications (IFERP) from 26th to 28th April 2023.
- 10) Participated in Five Day FDP on "Scope of quality research for funded projects and high impact publications" organized by K C G College of Technology from 24th to 28th February 2023.
- 11) Participated in Two Day workshop on "Advance training on IPR" organized by K S Institute of Technology, Bangalore from 23rd to 24th February 2023.
- 12) Participated in Five Day FDP on "Digital Image Processing using MATLAB" organized by Institute for Engineering Research and Publications (IFERP) from 20th to 24th February 2023.
- 13) Participated One week National level Faculty Development Programme on "Amazon Web Services" conducted by Brainovision Solutions India Pvt Ltd hosted by in RV Institute of Technology and Management from 22.08.2022 to 27.08.2022.
- 14) Participated NAAC Sponsored - Two Days State Level Seminar on "National Educational Policy: Quality Enhancement and Reforms in Higher Education Institutions (HEIs)" organized by Internal Quality Assurance Cell, Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu, India, during 04 & 05 August, 2022
- 15) Participated One day Workshop on "Finetuning of NEP compliance Syllabus – Disciplines under CSE board of VTU" on 20.04.2022 at S.J.C. Institute of technology, Chickpallapur in association with Visvesvaraya Technological University, Belegavi.
- 16) Participated Three day Faculty Development Program on "Androin Mobile Application Development" from 07th to 09th April 2022 at RV Institute of Technology and Management, Bengaluru.

- 17) Participated Five day ATAL - Faculty Development Program (Online) on "Security in Blockchain and Cyber-Physical Systems Design" from 17.01.2022 to 21.01.2022 at Government Engineering College, Rajkot.
- 18) Participated a Webinar Presented by a NAAC Expert – Prof. Amiya Kumar titled on "Quality Research and Its Output" on 19th June 2020 at Jain Deemed to be University, Bangalore.
- 19) Participated Three Days Online Faculty Development Program on "Tips and Tricks of Research Publications, Patent Filing and Research Grant" from 10th June 2020 to 12th June 2020 Kings Engineering College, Andhra Pradesh.
- 20) Participated Three Days Online Faculty Development Program on "Introduction to machine Learning" from 5th June 2020 to 7th June 2020 at Madanapalle Institute of Technology and Science, Andhra Pradesh.
- 21) Participated One Day Online Faculty Development Program on "Recent Developments and Future Directions in Artificial Intelligence" on 3rd June, 2020 at Amity University, Noida.
- 22) Participated Five Days Hands on Workshop on "Patent Searching, Drafting and Filing" from 29th May 2020 to 2nd June 2020 at Panimalar Institute Of Technology, Chennai.
- 23) A Roundtable On "Recent Developments in IP Ecosystem in India" on 28th March 2019 Conducted by National Law School of India University, Bengaluru.
- 24) Seminar On Research Publication, Grants and IPR On 8th March 2019 conducted by Technical Institute for Engineers at Hotel Davanam Sarovar Portico Suites, Bangalore.
- 25) Two Days Faculty Development Program on "Mastery Learning Program" from 11th to 12th September, 2018 at Dayananda Sagar Academy of Technology and management, Bangalore.
- 26) IEEE sponsored Workshop on Intellectual Property Right on 25 August 2018 at VTU Regional Center, Bangalore.
- 27) Three Days Faculty development Program on "Outcome Based Education" from 18th to 20th June, 2018 at Dayananda Sagar Academy of Technology and management, Bangalore.
- 28) Five Days Faculty development Program on "Machine Learning using Python" from 16th to 20th July, 2018 at Dayananda Sagar Academy of Technology and management, Bangalore.
- 29) Participated in a two days Workshop on "Analysis and Diagnosis of BioMedical signals using Optimization Techniques." held at Kongu Engineering College, Erode.
- 30) Participated in an One day Workshop on "Cloud Computing and its Research Applications." held at K.S.R College of Engineering, Tiruchengode.

- 31) Participated in a two days Faculty Development Program – RIPPLE 2011 organized by Cognizant and ICT Academy of Tamilnadu, Chennai.
- 32) Participated in an AICTE Sponsored Staff Development Programme on “Enterprise Computing” Organized by Sona College of Technology, Salem.
- 33) Participated in a two days National Level Seminar on “ An Intelligent Based Wireless Ad Hoc and sensor networks and its Application” held at K.S.R College of Technology, Tiruchencode.
- 34) Participated in a Eight days Training program on “Certificate in java Programming” Conducted by ICT Academy of Tamilnadu held at Muthayammal Engineering College, Rasipuram.
- 35) Participated in a seven days AICTE Sponsored Staff Development Programme on “Prospective Issues and Methodologies in Human Machine Interaction” held at National Engineering College, Kovilpatti.
- 36) Participated 36th ISTE Annual Convention and National Seminar On “Impact of technical Education on Socio-Economic Growth of Nation” Organized by Vinayaga Mission’s Kirupananda Variyar Engineering College, Salem.
- 37) Participated in a two days AICTE Sponsored Seminar on “Agent based Intelligent System” Held at Vivekanandha College of Engineering for Women, Tiruchencode.
- 38) Participated in a two days Seminar on “Cloud Computing” Held at Institute of Road and Transport Technology, Erode.
- 39) Participated in a four days Workshop on “Advanced java Programming.” held at Kongu Engineering College, Erode
- 40) Participated 36th ISTE Annual Convention and National Seminar On “Quality, Sustainability and social Responsibility: Interfaces in Technical Education in the Context of Globalization” Organized by Bannari Amman Institute of Technology, Sathyamangalam.
- 41) Participated in a two days Faculty Development Program on “Software Quality” organized by Accenture Technologies held at Anna University, Chennai.

Date: 12.11.2025

Signature

Place: Bengaluru

(Dr. M.VINOTH KUMAR)