DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Name : ASHOK P
Designation : ASSISTANT PROFESSOR, GRADE III
Email : ashokparanjothi.cse@sairamit.edu.in
Qualification : B.Tech, M.E., (Ph.D)
Specialization : COMPUTER SCIENCE AND ENGINEERING
Research Interest : Network and Security, Machine Learning, Wireless Communication
Experience in years : 10
Scopus ID : 57189308527
Orcid ID :https://orcid.org/0000-0002-7509-8060

Professional Membership	Review Member of "Journal of Emerging Technologies Innovation Research" Membership Number: 111227
	Review Member of "Advances in Science, Technology and Engineering Systems Journal (ASTESJ)" https://www.manuscriptlink.com/journals/astesj
	Review Member of "International Journal of Applied Science and Engineering (IJASE)"http://www.ijase.cyut.edu.tw/login.aspx?lang=en
	Member of I.S.T.E
	Editorial Board Member of "International Journal of Wireless Communication andSimulation" (IJWCS), http://ripublication.com/editorial_board_of_ijwcs.htm
	Review Member of "Journal of Emerging Technologies Innovation Research "International Journal of Modern Computing, Information and

	Communication Technology Review Member of "Advance in Science, Technology and Engineering Systems Journal (ASTESJ), Reviewer code: AJR07164 Member of "International Association of Engineers (IAENG), Membership Number: 155794", Hung Hong. Associate Member of "Institute of Research Engineers and Doctors" (IRED), Membership Number: AM10100051211.
TextBooks	**Book :** Title: PYTHON Publisher: CBA Publisher , Chennai ISBN:978-93-80430-56-0 Year:2020 Title: MOBILE COMPUTING Publisher: CBA Publisher , Chennai ISBN:978-93-80430-60-7 Year:2021 Title: INTRODUCTION TO COMPUTER NETWORK AND SECURITY Publisher: Scientific International Publishing House (SIPH) ISBN: 978-93-5625-543-2 Year:2022
Research Funded Projects	Successfully completed the project titled "Prevention of Fraudulent activities in the banking sector by using blockchain and machine learning in the sector " COMPUTER SCIENCE AND ENGINEERING under STUDENT PROJECT SCHEME-TNSCST sponsored by the council during the academic year 2022-2023. CSE-1562 Cheque no: 575032 dt 3.3.2023
Grant/Publication Patents	1. Patent (IPR) published titled on "SOFT FAIRNESS BASED SCHEDULING MECHANISM USING MACHINE LEARNING FOR CLOUD COMPUTING". APPLICATION NUMBER: 202141039379

	DATE OF FILING: 31/08/2021
	2. Patent (IPR) published titled on "ANTI-JAMMING VEHICLE COMMUNICATION WITH MACHINE LEARNING TECHNIQUE".
	APPLICATION NUMBER: 202241061625 DATE OF FILING: 28/10/2022
	3. **(GRANT)-** Patent (IPR) granted titled on "WEARABLE SOCIAL DISTANCE ALERTING DEVICE".
	APPLICATION NUMBER: 373992-001 Cbr Number: 208346 Cbr Date:12/11/2022
	4. Patent (IPR) published titled on "AI BASED PREDICTION AND PREVENTION OF MUSCULOSKELETAL DISEASES DISORDERS, BONE TUMOUR AND CANCER USING IMAGE PROCESSING AND DEEP LEARNING ALGORITHM".
	APPLICATION NUMBER: 202341008177 DATE OF FILING: 08/02/2023
Achievements	Cash award for 100% result in Computer Graphics in the year 2016-2017 Cash award for 100% result in Cryptography and Network Security in the year 2017-2018 Cash award for 100% result in Human Computer Interaction in the year 2018-2019
Any Other Information	

Certification:-

1. Cisco Instructor Trainer ,Trained by Amrita Vishwa Vidyapeetham Academy, CoimbatoreNetworking Academy ID: 54310360

Resource person:-

1. Acted as Resource person on "National Level Webinar எ Fundamentals of Computer Networks and simulation with CISCO Packet Tracer" at SIMATS School of Engineering (Saveetha University) on 11.8.2022
2. Acted as Resource person on" Introduction to Network and Practical Implementation with CISCO Packet Tracer", at Kongunadu College of Engineering and Technology on 01.05.2021
3. Acted as Resource person on "National Level one week FDP about "Multiverse approach to upskill professionals in contemporary environment" on 21-26 August 2023 by the department of mechanical engineering and R&D cell of SRM Madurai College of engineering and technology, Tamilnadu, 2023

Online Course Certifications:-

1. Successfully completed and received certificate on "Introduction to IoT" from CISCO Networking Academy on 22April 2020

Recognition

1. Acted as Guest Editor (**Elsevier Scopus/SCIE**)-2023
Entertainment Computing, Special Issue title: Entertainment for Tomorrow: Sustaining AI and IoT in an Eco-Conscious World (https://www.sciencedirect.com/journal/entertainment-computing/about/call-for-papers#entertainment-for-tomorrow-sustaining-ai-and-iot-in-an-eco-conscious-world)

2. Acted as Guest Editor (**Elsevier Scopus**)-2022
Measurement: Sensors, Special Issue title: Special Issue on Applying Sustainable AI and Deep Computing

Techniques for IOT connected Sensor Data Analytics (https://www.journals.elsevier.com/measurement-sensors/call-for-papers/special-issue-on-applying-sustainable-ai-and-deep-computing-techniques-for-iot-connected-sensor-data-analytics)

3. Acted as Program Committee member in the"3rd International Conference on Advances in Computing & Information Technologies (CACIT 2023)" August 26 ~ 27, 2023, Dubai, UAE. https://inwes2023.org/cacit/index

3. Associate Editor of "International Journal of Futuristic Research Evaluation in Engineering (IJFREE)" since 2019

4. Represented as Session Co-Chair on 1st International Conference on Information Management and Machine Intelligence (ICIMMI-2019), at Poorima Institute of Engineering and Technology on 14-Dec 2019

5. Represented as Outreach-Committee Member on 2 nd International Conference on New Achievements in Multidisciplinary Research organized by IFERP (Institute for Engineering Research and Publication) on 21-22 Feb 2020, Coimbatore

6. Awarded "Cyber Security Virtual Internship Program (VIP) 2021" for the partnership towards transforming india into digital talent hub.

7. Edited Book titled "Scope of Federated Learning in Next Gen Industrial Systems" by Immortal Publication in the year 2022, ISBN: 9789357774451

Chapter publication

1. Published paper titled: "A Machine Learning Approach for Providing Location Aware Services in Mobile Ad hoc Networks " with ISBN: 978-93-5437-721-1 in the Immortal Publication , 2021
2. Published paper titled: "Artificial Intelligence based Helium Quantity Detection in In-Door Environment " with ISBN: 9789357774451 in the Immortal Publication , 2022

List of Publications:-

SCIE:

1. **Ashok, P.,** Latha, B. Absorption of echo signal for underwater acoustic signal target system using hybrid of ensemble empirical mode with machine learning techniques. Multimed Tools Appl 82, 47291व47311 (2023). https://doi.org/10.1007/s11042-023-15543-2
2. **Ashok, P.,** Ragunthar, T., James, T.P.G. et al. Empowering an IoT platform with advance quantum computing and a Customized deep residual technique. Opt Quant Electron 55, 859 (2023). https://doi.org/10.1007/s11082-023-05154-4

SCOPUS:

1. **P. Ashok** , J. Velmurugan, M. Abinaya, Usha Shree Jayanthi , "An Investigation of Botnet Activity Based on DNS Analysis" Indian Journal of Science and Technology, Vol 9(16), April 2016
2. **Ashok, P.;** Purushothaman, N.; Elumalai, K., "Detecting and temporarily recovering lost packets in Ad-hoc network by using Bypass routing," Radar, Communication and Computing (ICRCC), 2012 International Conference on , vol., no., pp.264,267, 21-22 Dec. 2012.

3. **P. Ashok**, P. Anndurai, R. Lavanya and P. RaghuvaraPandian, "A Survey on Crypt-Algorithms in Voting System" Indian Journal of Science and Technology, Vol 9(38), DOI: 10. 17485/ijst/2016/v9i38/98035, October 2016

4. D. Jagadesh, P. Vinothkumar, **P. Ashok**, "LMSDS: Learning Management System for Deaf Students in Collaborative Learning Environment" Indian Journal of Science and Technology, Vol 9(16), DOI: 10.17485/ijst/2016/v9i16/92203, April 2016
5. **P. Ashok**, "Pest Detection and Identification by Applying Color Histogram and Contour Detection by SVM Model", International Journal of Engineering and Advance

Technology, ISSN:2249-8958, Volume-8, Issue-3S, February 2019

6. T.Ragunthar, **P.Ashok**, N.Gopinath, M.Subashini, "A strong reinforcement parallel implementation of k-means algorithm using message passing interface", Materials Today: Proceedings, Volume 46, Part 9, 2021, Pages 3799-3802

7. Vignesh.S, Tarun.M.G, Sankhasubhra Nandi, Sriram.M, **Ashok.P**," "Forest Fire Detection and Guiding Animals to a Safe Area by Using Sensor Networks and Sound", 2021 4th International Conference on Computing and Communications Technologies (ICCCT), 2021, pp. 473-476, doi: 10.1109/ICCCT53315.2021.9711785.

8. Dr.C.Saravanabhavan, S. Ranjithkumar, M.Subashini, Dr.K.Baranidharan, Dr.P.Preethi, **P.Ashok**, "Blockchain-Based Secure Menger's Authentication for Industrial IOT", 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) | 978-1-6654-3789-9/22/$31.00 ©2022 IEEE | DOI: 10.1109/ICACITE53722.2022.9823904

9. **P. Ashok**, A.Kavinilavu, S. Ananthi," Computer Vision-Based Detection and Recognition Model of Objects for any Autonomous Systems in Low Illumination Condition", 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) | 978-1-6654-3789-9/22/$31.00 ©2022 IEEE | DOI: 10.1109/ICACITE53722.2022.9823533

10. **P. Ashok**, J. S. Kavin, N. K. Sankara and P. V. Vasanth, "Flood Prediction in the Area of Tamil Nadu and Andhra Pradesh Using Machine Learning Technique," 2022 1st International Conference on Computational Science and Technology (ICCST), CHENNAI, India, 2022, pp. 1-4, doi: 10.1109/ICCST55948.2022.10040321.

11. **P. Ashok** and B. Latha, "An Improving Recognition Accuracy of Underwater Acoustic Targets based on Gated Recurrent Unit(GRU) Neural network Method," 2022 1st International Conference on Computational Science and Technology (ICCST), CHENNAI, India, 2022, pp. 1-6, doi: 10.1109/ICCST55948.2022.10040289.

12. **Ashok, P.**, James, T.P.G., Malathi, G., Kavinilavu, A., Sharmila, L." Development of Truly Intelligent Autonomous Agents Based on Classical AI Using Complex Representations", 3rd International Conference

on Power, Energy, Control and Transmission Systems, ICPECTS 2022 - Proceedings, 2022

13. Anguraju, K., Prakash, R.K., Sowjanya, V., ...Murali, E., **Ashok, P.**." Post Quantum Steganography for Cloud Privacy Preservation using Multivariable Quadratic Polynomial", 1st International Conference on Computer, Power and Communications, ICCPC 2022 - Proceedings, 2022, pp. 65ள70

ANNA UNIVERSITY ANNEXURE-I

14. Dr. K. C. Suresh, **P. Ashok**, M. Subashini,"Ethereum Network For Secure Contract Using Blockchain Technology In Tamilnadu Real Estate", Tierளrztliche Praxis, Vol 40, 2020

WEB OF SCIENCE

4. Suresh S Rao1*, Kommu Gangadhara Rao 2 , R S Subhasree Vignani3 , Nelson Kennedy Babu C4 , **Ashok P5** And Selvakanmani.S6, "In Real-Time Systems, A Bio-sensing Distributed Network For Self organizing Sensor Networks", International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), ISSN: 2277ள4998, November, Special Issue, 2021, 10(11): 1011-1023

2. T.Ragunthar, **P.Ashok** , N.Gopinath, M.Subashini, "A strong reinforcement parallel   implementation of k-means algorithm using message passing interface", Materials Today: Proceedings, Volume 46, Part 9, 2021, Pages 3799-3802

3. Ashok.P, Dr.B.Latha, " A Comparative Analysis of Different Algorithms in Machine Learning Techniques for Acoustic Signal Recognition.", Smart Data Intelligence-Proceedings of ICSMDI 2022, ISBN978-981-19-3310-3, DOI : 10.1007/978-981-19-3311-0

UGC JOURNAL

1. **Ashok P**, Akhila G, Anitha J "A brief study of malicious virus: Ransomware" International Journal of Creative Research Thoughts (IJCRT), Volume 5, Issue 4 December 2017 | ISSN: 2320-2882

2. P. Kavitha, **P. Ashok** "CREDENTIAL BASED DYNAMIC GROUPING IN CLOUD COMPUTING" International Journal of Creative Research Thoughts (IJCRT), Volume 5, and Issue 4 December 2017 | ISSN: 2320-2882

OTHER JOURNALS

1. **Ashok. P**, Hariharan. R, Lavanya. R, Prianka. R, "Extraction of Most Relevant Data from Deep Web Mining"International Journal of Innovative Science and Modern Engineering(IJISME) Vol. 3 Issue 1, December - 2014.

2. **Ashok. P**, Satheesh .P. S, Karthikeyan. J, "Detecting and Recovering Link-Failure in Ad-hoc Network Using Signal Stability-Oriented Routing Protocol" International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 4, p. 449-452, April ள 2013

3. Kumaran. C, **Ashok. P**, Dr. P. Purushothaman, "Detecting and Recovering Multi-Tap Route Failure in Ad-hoc network Using Zone-Based Routing Protocol" International Journal of Engineering Development and Research, Volume 2, Issue 2 | ISSN: 2321-9939

4. **Ashok P**, Satheesh P S, Anandbabu N, Kannan K, Vinoth M," Detecting And Recovering The Multi-Tap Broken-Path In Ad-Hoc Network Via Flow-Based Routing, International Journal On Human Machine Interaction, Vol 1, No.2, 2014"

5. **Ashok P**, "Dynamic Cryptographic Algorithm to Provide Password Authentication using Cued Click Points "International Journal of Informatics and Communication Technology (IJ-ICT) Vol. 6, No. 2, August 2017, pp. 123~128 ISSN: 2252-8776, DOI: 10.11591/ijict.v6i2.pp123-128 ρ 123

6. **Ashok. P.**; Manimala. G.; "Detecting and Preventing the Malicious System based on DNS Analysis," Journal of Computer Applications (JCA) ISSN: 0974-1925, Volume VI, Issue 3, 2013

7. Ragunthar.T, Ashok.P, Gopinath.N, NithishSurana,"Parallel Implementation Of K-Means Algorithm Using Mpi",Journal of Critical Reviews, Vol 7, Issue 19, 2020

8. Ashok. P, Lavanya. R, Vidhya V, Karthick. K, Mohammed Sanjarkhan,"A Comparsion Survey Paper On Blockchain Technology, Bitcoin And Ethereum"Volume 24, Issue 6,2020,DOI:10.37200/IJPR/V24I6/PR260649

9. Dr. C. Saravanabhavan, Ms.T.Gangalakshmi, P. Ashok, Dr.N.Krishnaveni, N.Gopinath," Preserving Privacy Using Enhanced Shadow Honeypot Algorithm For Data Retrieval In Cloud Computing", Design Engineering ," VOL 2021: ISSUE 06"

CONFERENCE

INTERNATIONAL CONFERENCE

1. Published Paper in "International Conference on Computer application (ICCA'10)' ' Conducted by Techno Forum Research and Development Centre, which happened between 24th and 27th December, 2010.

2. Ashok, P.; Purushothaman, N.; Elumalai, K., "Detecting and temporarily recovering lost packets in Ad-hoc network by using Bypass routing," Radar, Communication and Computing (ICRCC), 2012 International Conference on , vol., no., pp.264,267, 21-22 Dec. 2012.

3. Ashok. P., "Pertaining of CNN structure using single and multiple distant microphones for speech recognition" International conference on recent trends in aero science and engineering & technologies (Techzill'19) on 6.9.2019 at Jeppiaar institute of technology.

4. Ashok. P, "Blockchain and Smart Contracts for real estate using Ethereum", in the International Conference on Recent Development in Engineering Management Sciences and Technology organized by Dhaanish Ahmed College of Engineering on 26 june 2020

5. **Ashok. P,** B.Latha, "A Comparative analysis of Different Algorithms in Machine Learning Techniques for Acoustic Signal Recognition ", 2nd International Conference on Smart Data Intelligence (ICSMDI 2022) organized by department of CSE & IT,Kongunadu College of Engineering and Technology , Trichy , Tamilnadu on 11th எ 12th april 2022.

6. **Ashok. P,** B.Latha, "An Improving Recognition Accuracy of Underwater Acoustic Targets based on Gated Recurrent Unit(GRU) Neural network Method", 1st International Conference on Computational Science & Technology(ICCST'2022) held on 9th& 10th November 2022.

NATIONAL CONFERENCE

1. Presented Paper in the FOURTH National Conference On computing And Communication held at Ganadipathy Julsi's Jain Engineering College, which happened on 24 th February 2012, Vellore.

2. Presented Paper in the National Conference On Computing application held at Karpaga Vinayaga College of Engineering and Technology, which happened on 3 rd April 2012, Chennai.

Workshop / Conferences /FDP Attended/STTP:-

➢ Participated in the Faculty Development Training Programme on "Design and Analysis of Algorithms" at CEG Campus, Anna University from 25.11.2015 to 1.12.2015.

➢ Participated in the Faculty Development Training Program on "Data Science and Big Data Analytics" conducted by ICT Academy from 19th June 2017 to 23 June 2017.

➢ Participated in the Workshop on "Quantum Computation and Cryptography" Sponsored by NSERB & BRNS from 23rd January 2018 to 24 January 2018.

➢ Participated in the Workshop on "Red Hat (Open Source) Technology & Industry Adaptation" held on 2nd March 2018

➢ Participated in a Six Days AICTE-ISTE sponsored Induction / Refresher Programme on "Modern Pedagogy for Engineering Teachers in Making Digital India" during the period 21st may -26th may,2018.

- Attended the training on "Quality Management System and Audit Training" conducted by Creative Management Consultants, Chennai on 23rd April 2018.
- Participated in the Faculty Development Training Programme on "GE8151 Problem Solving and Python Programming" from 11th june 2018 to 18th june 2018, Anna University chennai.
- Participated in the Faculty Development Training Programme on "Engineering Teaching Pedagogy and Teaching Learning Process" from 3rdNov 2018 to 7 Nov 2018
- Participated one day hands-on-training on "Networking Principles and Security Practices" conducted by S.A. Engineering College on 26.4.2019
- Participated in Two days Faculty Development Program on "Creative Thinking" conducted by ICT Academy from 6.5.2019 to 7.5.2019
- Participated in Two days' Workshop on "Machine Learning with Python" conducted by Vel Tech High Tech, Avadi, Chennai from 17.6.2019 to 20.6.2019
- Participated in AICTE Sponsored Two Weeks Faculty Development Programme on "Artificial Intelligence &Advanced Machine Learning using Data Science" organized by department of CSE during 22nd Dec to 5th Dec 2019
- Participated in the AICTE Sponsored one week online short term traningprogramme on " Tableau –Data Visualization Tool for Researchers" by IFET College of Technology from 31/08/2020 to 5/09/2020
- Participated in the one week national level online FDP on "COMPUTER NETWORKS SIMULATION USING NS2" organized by Mahatma Gandhi Institute of Technology, from 10 to 14th August 2020
- Participated in the AICTE Training and Learning Academy (ATAL) online FDP on "BLOCKCHAIN" from 24-8-2020 to 28-8-2020 at PSNA College of Engineering and Technology
- Participated in the One week AICTE sponsored online short term training program on "Introduction to Electric Vehicle: Opportunities and Challenges – case study", organized by SAINTGITS College of Engineering , kottayam from 3to 8th August 2020
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Artificial Intelligence" from 2021-1-4 to 2021-1-8 at PSNA College of Engineering and Technology.

- Participated & completed Online Six Day FDTP on "CS8091 – BIG DATA ANALYTICS" Sponsored by Centre for Faculty Development, Anna University, Chennai from 15/12/2021 to 21/12/2021 organized by Department of Information Technology, E.G.S. Pillay Engineering College(Autonomous), Nagapattinam, Tamil Nadu, India
- Participated in the six days FDP programme on CS8791 cloud computing by the department of information technology at Tagore Engineering College, Chennai from 18.7.2022 to 23.7.2022
- Participated one week faculty development programme on "The Art of Research and Development" Organized by IEEE PCS Madras chapter & IEEE CS Madras chapter in association with CSE, IT , S.A Engineering College, Chennai-77, during 26-0 december 2023
- Participated in the National Level one week FDP about "Multiverse approach to upskill professionals in comtemporary environment" on 21-26 August 2023 by the department of mechanical engineering and R&D cell of SRM Madurai College of engineering and technology, Tamilnadu

Workshop / Conferences /FDP Organized:-

- Organized - Symposium SINTACS 2017- on 9th August 2017

Seminar Attended:-

- Participated in two days National Seminar on "Computational Intelligence" in association with CSIR at Rajalakshmi Engineering College, Thandalam, Chennai from 15th and 16th july 2019
- Participated in two days National Seminar on "Computing Platforms for Biological Big Data Analytics" DST SERB Sponsored, at Dr. N.G.P. Arts and Science College, Coimbatore from 5-6th Feb 2020