

Department of Information Technology

Personal Details

Name:	Dr.N.Kalyana Sundaram
Designation:	Professor
Educational Qualification:	M.Tech.,Ph.D.
Experience:	11.2 years
Area of Specialization:	Cloud Computing, Big Data Analytics, Networks

Educational Details

S.No.	Degree	Branch/Specialization	Institute/University	Year
1	BE	Electronics and Communication Engineering	A.M.S College of Engineering /Madras University	2000
2	MTech	Computer Science and Engineering	SRM University	2007
3	Ph.D.	Computer Science and Engineering/Cloud Computing	Vels Institute of Science, Technology and Advanced Studies	2018

Publication Details

1. **Dr.Kozim K. Dr.Hussein Alawadi A,Dr.N.Kalyana Sundaram et al.**, “Enhancing Resilience in Distribution Systems through Dynamic Reconfiguration”. E3S, Web of Conferences, Volume 540, Article Number 10032, 2024. <https://doi.org/10.1051/e3sconf/202454010032>.
2. **Dr.Srinivas, ...,Dr. Singh. R, Dr. N.Kalyana Sundaram et al.**, “Disease Prediction Models using Machine Learning Algorithms”, Proceedings-International Conference on Technical Advancements in Computational Sciences, ICTACS’2023, Date of Conference: 01-03 November 2023, DOI: 10.1109/ICTACS59847.2023.10390389, pp.802-810.
3. **Dr.Samikshya Dash, Dr.Simanchala Das, Dr.Sivasubramanian, Dr.N.Kalyana Sundaram et al.**, “Developing AI-based Fraud Detection Systems for Banking and Finance”, Fifth International Conference on Inventive Research in Computing Applications (ICIRCA), Date of Conference: 03-05 August 2023, IEEE, Pages.891-897, DOI: 10.1109/ICIRCA57980.2023.10220838.
4. **Dr. P.B.Edwin Prabhakar, Dr.S.Sivasubramanian, Dr.N.Kalyana Sundaram, Dr.S.Subburam et al.**, “CT Lung Image Classification Systems - A Systematic Review”, Journal of Cardiometry, Issue 25, December 2022, Pages.-1113-1117, Russian New University, e-ISSN23047232, DOI: <https://doi.org/10.18137/cardiometry.2022.25.11131117> .
5. **Dr.Sivasubramanian, Dr.N.Kalyana Sundaram et al.**, “Next generation Fruit Vending Machine using Artificial Intelligence”, Sixth International Conference on I-SMAC, IEEE, Pages 864-869, Date of Conference: 10-12 November 2022, ISSN: 2768-0665, DOI: 10.1109/I-SMAC55078.2022.9987321. Electronic ISSN: 2768-0673
6. **Dr.M.Anand, Dr.K.Thinakaran, Dr.N.Kalyana Sundaram, Dr.M.Anbarasan**, “Multiple metric based Twofold Route Selection AODV routing protocol for improved communications on MANET for industrial automation”, Materials Today: Proceedings, Volume 46, Elsevier, 2021, Pages 4063-4066, <https://doi.org/10.1016/j.matpr.2021.02.604>.
7. **Dr.N.Kalyana Sundaram, T.Prabhakar Godwin James et al.**, “A Brief Review on NAT Traversals in Cyber Security Networks”, Journal of Critical Reviews, ISSN-2394-5125, Volume 7, Issue 6, 2020, pp.1299-1307.
8. **Dr.N.Kalyana Sundaram, Dr. S.P.Rajagopalan**, “Experimental Evaluation of ESDLB in Cloud Computing” in International Journal of Pure and Applied Mathematics, Volume 117, No. 16, 2017, pp.451-456.
9. **Dr.N.Kalyana Sundaram, Dr.P.C.Senthil Mahesh et al.**, “A Study on Nomenclature, Detection Method and Prevention Method of Sybil Attacks in Self-Organizing Networks”, Journal of Critical Reviews, ISSN-2394-5125, Volume 7, Issue 6, 2020, pp. 1308-1313.
10. **Dr.N.Kalyana Sundaram, Dr. S.P.Rajagopalan**, “Experimental Evaluation of ESTS in CloudComputing” in International Journal of Engineering and Technology (UAE), Volume 5, 2017.
11. **Dr.N.Kalyana Sundaram, Dr. S.P.Rajagopalan**, “An Optimization of Energy Saving in Cloud1 Environment” in International Journal on Recent and Innovation Trends in Computing and Communication, Volume 5, Issue 5, 2017, pp.1238-1241.

Program Organised

Webinar

1. **Dr.T.R.Vijayaraman, Research Professor, BIHER, Selaiyur** was conducted the webinar “Computers in Foundaries” on 26th May 2021 at New Prince Shri Bhavani College of Engineering and Technology.

Program Attended

FDP/STTP

1. FDP on “Exploring Data Science with Modern Tools”, organized by Department of Computer Science and Engineering and Department of Artificial Intelligence and Data Science, Dhanalakshmi College of Engineering, Chennai from 22.7.2024 to 26.7.2024
2. FDP in “Artificial Intelligence’s impact on Transforming Software, Robotics, Electrical, Electronics and Mechanical Fields” held from 5th August 2024 to 10th August 2024 at Dhaanish Ahmed College of Engineering, Chennai.
3. FDP on “AI Tools for Teaching”, organized by Star International Foundation for Research and Education on 22.6.2024
4. FDP on “Research-The Journey from Inception to Publishing” by IQAC in association with PG and Research Department of Computer Science from 5th February 2024 to 9th February 2024 at Dhanraj Baid Jain College, Chennai.
5. FDP on “Harnessing the power of Generative AI across Disciplines” conducted by Department of Computer Science and Business Systems, Sri Sairam Engineering College, Chennai from 22.8.2023 to 23.8.2023.
6. FDP on “Education 5.0”, organized by Department of Information Technology in association with Academic Staff College, Dr. M.G.R Educational and Research Institute, Chennai from 15.5.2023 to 19.05.2023.
7. FDP on “Machine Learning Approaches for Engineering Applications”, organized by Department of Information Technology, Prathyusha Engineering College, Thiruvallur from 27th December 2022 to 31st December 2022.
8. FDP on “Research Perspectives on Data Science”, organized by Department of Information Technology, Sri Sairam Engineering College, from 28.6.2021 to 02.07.21.
9. FDP on “Machine Learning and AI” from 5th June to 9th June 2021, conducted by Raja Bahadur Venkata Rama Reddy Women’s College, Hyderabad in collaboration with Dataspace Security Private Ltd., Kolkata, India
10. ATAL FDP on “Augmented Reality/Vertical Reality and its applications” from, 4.10.2021 to 8.10.2021 at Sri Sairam Engineering College, Chennai.
11. ATAL FDP on “Fog and Edge Computing Challenges and Research Directions” from 26.10.2021 to 30.10.2021 at Sri Sairam Engineering College, Chennai.

12. FDP on “Open-Source Tools on Data Analytics” from 24.5.2021 to 28.5.2021, Conducted by Department of Computer Science and Engineering, Sri Sairam Engineering College, Chennai.
13. STTP on “IOT Powered Solutions for HealthCare Innovations – Research Perspective” from 15.3.2021 to 20.3.2021, Organized by Department of ECE and Research Forum, KCG College of Technology, Chennai.
14. FDP on “Entrepreneurship Development” from 1.3.2021 to 13.3.2021, Organized by Department of Technology Management, School of Mechanical Engineering, VIT, Vellore.
15. FDTP on “Cryptography and Network Security”, June 2019, conducted by AnnaUniversity in association with GKM College of Engineering and Technology, Chennai.

Workshops

1. Workshop on “Linux” from 10.5.2021 to 14.5.2021, Organized by School of Computer Science and Engineering (SCOPE) and Academic Staff College of VIT, Chennai.
2. Workshop on “Wireless Communication Essentials” on 2.6.2020
3. Workshop on “HIGH IMPACT TEACHING SKILLS”, June 2011, conducted by MISSION 10X, WIPRO.
4. Workshop on “BIG DATA ANALYTICS”, September 2015, conducted by Spiro group of companies, Chennai.
5. Workshop on “APPLICATION DEVELOPMENT FRAMEWORK”, February 2011, conducted by GKM College of Engineering & Technology, Chennai.
6. Workshop on “NETWORKING TECHNOLOGIES”, March 2011, conducted by Velammal Engineering College, Chennai.

Webinar/Seminar

1. Webinar on “Agile way of Software Delivery”, Organized by Department of Augmented Reality and Virtual Reality, Institute of Computer Science and Engineering, SIMATS on 8.10.2021.
2. Webinar on “Pathways to Discovery and Innovation: Nurturing Researchers for Tomorrow (PDINR-2024), Organized by Centre for Research Development and Promotion [PARISHODHANA] of Pitapur Rajah’s Government College (A), Kakinada from 25th April 2024 to 30th April 2024.
2. Seminar on “NAAC Revised Assessment and Accreditation Framework-An approach”, Organized by Internal Quality Assurance Cell of NPSBCET on 5th February 2022.

Lecture Series

1. Participated in Lecture Series on “Students Engagement through effective teaching and learning”, organized by the Internal Quality Assurance Cell (IQAC), Dr. M.G.R. Educational and Research Institute, Chennai on 27.6.2024.
2. Participated in Lecture Series on “Navigating the art of Teaching”, organized by the Internal Quality Assurance Cell (IQAC), Dr. M.G.R. Educational and Research Institute, Chennai on 26.6.2024.
3. Participated in Lecture Series on “Teacher as Facilitator”, organized by the Internal Quality Assurance Cell (IQAC), Dr. M.G.R. Educational and Research Institute, Chennai on 25.6.2024.

Symposium

1. International Symposium on “Recent Trends in Computing Technology” organized by the department of Computer Science Engineering and Office of International Relations and Collaborations, Department of Computer Science and Engineering, Dr. M.G.R. Educational and Research Institute, Chennai.

IBM Naan Mudhalvan

1. Completed the Mentoring in Professional Readiness for Innovation, Employability and Entrepreneurship program on “Emerging Technology (Artificial Intelligence, Applied Data Science, Data Analytics, Internet of Things and Cloud App Development)” on February 22nd 2024.

Patent Details

1. **Dr. S.Jagan, Dr.K.Gurunathan and Dr.N.Kalyana Sundaram et al.**, “IOT based elderly people activity monitoring and detecting unusual activity in home”, Bio-medical Engineering, 11.6.2021, IntellectualProperty India, Office of the controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India.

2. **Mr.M.Chidhambaranathan, ..., Dr.N.Kalyana Sundaram et al.**, “ A Deep Learning based System for Anomaly Detection in Machine Learning Data and Method thereof”, 25.11.22, Office Journal of the Patent Office, Issue No. 47/2022.

3. **Dr.Subba Reddy Borra,, Dr.N.Kalyana Sundaram et al.**, “IDM8-AI based eco-friendly thermostat”, 26.7.2024, IntellectualProperty India, Office of the controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India.

4. **Dr.S.Subburam, Dr.N.Kalyana Sundaram et al.**, “Cloud based disaster recovery and rescue device”, 7.8.2024, IntellectualProperty India, Office of the controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India.

Professional Bodies

ISTE-Lifetime Membership-LM139095, Membership date: February 19, 2023.

IAENG-Membership Number-327336, Membership date: January 16, 2023.