

Name : Dr. K.RAJALAKSHMI

Designation : ASSOCIATE PROFESSOR (AI&DS)

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Qualification : B.E., M.E., Ph.D.,

Specialization : CSE

Research Interest : Cloud Computing

Experience in years : Teaching: 13 Years 5Month Industry: NIL

No. of Workshop/Conferences/ FDP attended Workshop:15 FDP: 18  
Conferences:10

: Workshop :3 FDP:  
No. of Conferences:  
Workshop/Conferences/  
FDP Organized



Professional Membership	IEEE
Publications	National :1
	International: 9
	Book :NIL
Research Funded Projects	NIL
Patents	2 Patent Granted

### List of Patent :-

Field of Invention	Innovation Patent	Issued	Application Number	Title of Invention
IOT	Australian Government	21 <sup>st</sup> August 2021	2021106357	An IOT Enabled Agriculture Automation System
AI	Indian Government	16 <sup>th</sup> September 2024	430596-001	An AI- Supported Spirometry Analyzer for Lung Function Testing

### List of Publications: -

1. **K. Rajalakshmi**, M. Sambath, Linda Joseph, K. Ramesh, R. Surendiran, "An Effective Approach for Improving Data Access Time using Intelligent Node Selection Model (INSM) in Cloud Computing Environment," SSRG International Journal of Electrical and Electronics Engineering, vol. 10, no. 5, pp. 174-184, 2023.
2. **K. Rajalakshmi**, M. Sambath, Linda Joseph, "Improving File Storage Mechanism using Intelligent Data Fragmentation Model (IDFM) Algorithm and Providing Confidentiality of Data in Cloud Computing Environment," International Journal of Engineering Trends and Technology, vol. 71, no. 3, pp. 130-142, 2023.
3. **K. Rajalakshmi**, Sambath, M. and Joseph, L., 2023, January. Research Challenges and Future Directions for Data Storage in Cloud Computing Environment. In 2023 International Conference on Computer Communication and Informatics (ICCCI) (pp. 1-5). IEEE, 2023.
4. **Rajalakshmi, K.**, Sambath, M. and Joseph, L., 2022, December. Towards Improving Cloud Security and Performance by using Proposed Controlled Replication Model. In 2022 International Conference on Computer, Power and Communications (ICCCPC) (pp. 12-16). IEEE, 2022.
5. **Rajalakshmi, K.**, Ramesh, K. and Renjith, P.N., 2022, June. Comparative Study of Cryptographic Algorithms in cloud storage data security. In 2022 2nd International Conference on Intelligent Technologies (CONIT) (pp. 1-7). IEEE, 2022.
6. **Rajalakshmi, K.** and Niranjana, P., 2020, March. GSM Based Irrigation System For Monitoring Agriculture. In 2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS) (pp. 1025-1028). IEEE, 2020.
7. **K. Rajalakshmi**, P. Niranjana, K. Praveen, R. Ramesh, "Clustering for extenuating the safety patron toss" International Journal of Control and Automation,13(2), pp. 478–483,

2020.

8. K. Praveen, **K. Rajalakshmi**, M. Malathi, R. Dhanagopal, "Data redundancy reduction in IoT weather station" International Journal of Control and Automation, 13(2), pp. 534–545, 2020.

9. **Rajalakshmi, K.** "Sheltered Confidentiality on Spots for Mobile Based Social Application". International Research Journal of Engineering and Management Studies (IRJEMS), June 2019.

#### **Conferences /FDP/Workshop Attended: -**

- Participated in "Bootcamp on Learning Experience Design(LXD)" held on 20.06.2024 and 21.06.2024 at Sri Sairam Engineering College, Chennai.
- Attended one week FDP on "Revolutionizing Industries: AI's Impact in Today's World", organized by Department of AI and DS, KPR Institute of Engineering and Technology, Coimbatore from 20.03.2024 to 26.03.2024.
- Attended five-day Summer workshop on "Developing Cyber Security Models using Deep Learning Techniques" conducted by Hindustan Institute of Technology and science, IET Chennai Local Network, from 4<sup>th</sup> July to 8<sup>th</sup> July 2023.
- Attended Interactive Session on "Circular Economy" conducted by Hindustan Institute of Technology and science on June 10<sup>th</sup> 2023.
- Attended one Day National Symposium on "Green Hydrogen Technology: Harnessing the power of Renewables", Conducted by Hindustan Institute of Technology and science on 20<sup>th</sup> April 2023.
- Attended A five-day workshop on "Cloud Computing and Big Data Analytics" from 10th April 2023 (Monday) to 14th April 2023 (Friday) Organized by School of Computer Science and Engineering (SCOPE) VIT-AP University.
- Participated in National Conference on "Computational Intelligence and Data Analytics 2023" conducted by Department of CSE and IT, Hindustan Institute of Technology and science during 30<sup>th</sup> and 31<sup>st</sup> March 2023.
- Attended an Awareness session on "Intellectual Property Rights" by Hindustan Institute of Technology and science on 2<sup>nd</sup> Feb 2023.
- Attended International conference on Computer, Communication and Informatics (ICCCI) and presented a paper entitled "Key Issues and Future Direction for Cloud Storage in Research" during 23<sup>rd</sup> to 25<sup>th</sup> January 2023 held at Sri Sakthi Institute of Engineering and Technology, IEEE Madras Section.
- Attended two days' Technical webinar on "Eras of the Web (Web 0.0- Web 5.0) organized by Hindustan Institute of Technology and science during 9<sup>th</sup> and 10<sup>th</sup>

January 2023.

- Attended International conference on Computer, Power and Communication (ICCPC) and presented a paper entitled “Towards Improving Cloud Security and Performance by using Proposed Controlled Replication Model” during 14<sup>th</sup> to 16<sup>th</sup> December 2022 held at Sri SaiRam Institute of Technology, IEEE Madras Section.
- Attended Five days’ workshop on “Research Insights” organized by Hindustan Institute of Technology and science, held from 22 August 2022- 26 August 2022.
- Attended International conference on Intelligent Technologies (CONIT 2022) and presented a paper entitled “Comparative study of cryptographic algorithms in cloud storage data security” during 24<sup>th</sup> to 26<sup>th</sup> June 2022 held at KLE Institute of Technology, IEEE Bangalore Section.
- Attended one day International workshop on “Research publication in Engineering and Technology”, by Elsevier Pvt on 27<sup>th</sup> August 2021.
- Attended Online FDP on “Natural Language Processing” conducted by Hindustan Institute of Technology and science from 29.03.2021 to 01.04.2021.
- Attended International conference on Intelligent Computing, Smart Communication and Network Technologies (ICICSCNT 2021) on 26<sup>th</sup> and 27<sup>th</sup> March 2021 held at RMK Engineering College.
- Attended 5 days FDP on “Recent trends in digital technologies” conducted by The American college, Madurai from 7<sup>th</sup> July 2020 to 11<sup>th</sup> July 2020.
- Attended 7 days FDP on “Networking Essentials” conducted by ICT Academy from 7<sup>th</sup> may 2020 to 13<sup>th</sup> may 2020.
- Attended five days FDP on “Python” Conducted by Vellore Institute of Technology”, Chennai from 5<sup>th</sup> may 2020 to 9<sup>th</sup> may 2020.
- Attended one week FDP on “Linux Application in Engineering Education” conducted by NITTR, Chandigarh from 27.04.2020 to 01.05.2020.
- Attended one week FDP on “Internet of Things” conducted by NITTR, Chandigarh from 15.04.2020 to 19.04.2020.
- Attended two weeks FDP on “Managing Online Classes and Co-creating Moocs”, conducted by Ramanujan College University of Delhi, sponsored by Government of India, MHRD from April 20 – May 06, 2020.
- Completed 7 days FDP programme on “Data Base Management Systems” conducted by NPTEL-AICTE on April 2019, funded by the Ministry of HRD, Govt.of.India.
- Completed 12 days FDP programme on “Programming in JAVA” conducted by NPTEL-AICTE on Oct 2019, funded by the Ministry of HRD, Govt.of.India.

- Participated in the Five days AICTE-Anna University sponsored Short term Training programme STTP on Operating Systems during Dec 3<sup>rd</sup> to Dec 7<sup>th</sup> 2019 in the Department of Computer Technology, MIT Campus, Anna University, Chrompet, Chennai.
- Participated in the training Programme “Teacher for Teachers” conducted by Anna Institute of Management Chennai on 12.10.2019.
- Participated in the Faculty Development Program on Software Defined Networks conducted in SONA college of Technology, Salem AICTE from Nov 18<sup>th</sup> to Nov 30<sup>th</sup> 2019.
- Participated in two days FDP on “Introduction to IOT” conducted by ICT Academy on 18<sup>th</sup> and 19<sup>th</sup> August 2017.
- Participated in the Training Programme on “Outcome Based Education” Conducted by Chennai Institute of Technology from 30<sup>th</sup> November 20217 to 2<sup>nd</sup> December 2017.
- Participated in the Faculty Development Program on Free Open Source Software (FOSS) conducted in Dhaanish Ahmed College of Engineering, Chennai on 8<sup>th</sup> and 9<sup>th</sup> march 2013.
- Presented a paper titled “Efficient Implementation of Biometric and Steganography in online polling system” on national conference on VLSI, communication and computation (NCVCC’12) at Maharaja Engineering college held on 18<sup>th</sup> February 2012.
- Seminar on Cloud Computing conducted at SNS College of Technology March 2012.
- Workshop on “THE JOURNEY TO PRIVATE CLOUD WITH EMC” Organized by the Department of Information Technology, PSG College of Technology, Coimbatore in Collaboration with EMC CORPORATION, Bangalore on 9<sup>th</sup> April, 2011.
- National Level Technical Symposium held at Sri Ramakrishna Institute of Technology on 30<sup>th</sup> September 2009.
- Workshop on “EMERGING TRENDS IN MOBILE COMPUTING AND NETWORK SECURITY” at S.N.S College of Technology on 21<sup>st</sup> September 2007.

**Workshop / Conferences / FDP Organized: -**

- Organized 24 hours online Challenge contest “The Largest Learnathon of India – Student Championship 2018” on 02.02.18 to 03.02.18 powered by Trailhead and organized by ICT Academy.

- Organized Computer Science and Engineering Department National level technical Symposium Hackerz'17 and Hackerz'18.
- Organized Five days' workshop in "Salesforce Technology Summit" 21st August 2018 in association with ICT Academy Salesforce.

