

Name: Dr. J Vijayalakshmi

Degree: M.E., Ph.D.

Designation: Associate Professor

Experience: 25 years

Area of Specialization: Cloud Security, Network Security, Web Technology, Machine Learning and AI

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Subjects Handled:

- Advanced Java
- Data Structure using C++
- Data Structure using PASCAL
- Visual Basic
- Relational Database Management System
- Computer Networks
- Computer Architecture
- Multimedia and its Applications
- Operating Systems
- Programming using C
- Principles of Programming Languages
- Programming using C++
- Internet Programming Tools
- Middleware Technology
- XML and Web Services
- Security In Computing
- Service Oriented Architecture
- C# and .NET Programming
- Cloud Computing
- Grid and Cloud Computing
- Cryptography and Security in Networks
- Advanced Machine Learning with Laboratory
- Exploratory Data Analysis

Publications (Journals & Conferences):

International Journals Publications

1. Gollapalli Sumana, K. Kalaiselvi, **J. Vijayalakshmi** , S. Shanthi, 5 G. Aparna, M. Kezia Joseph, “ A design and development of support system for prediction 3 of various renal

syndromes using artificial neural networks”, Int J Syst Assur Eng Manag, Sep 2021,
Article No. : 1238. <https://doi.org/10.1007/s13198-021-01238-0>

- 2 • Esther Daniel, Durga, **J.Vijayalakshmi**, R. Janani, N.Susila, “Green Telecare: An IoT and Cloud based Identification of Common Thoracic Diseases using Deep Learning Approach”, Journal of Green Engineering, Feb 2021, Vol 11., Issue 2, pp-1452-1466
- 3 • Kannan, N., Leoram Siddarth, S.R., Vijayalakshmi, J., 'Device to Check Water Quality Using Internet of Things', Test Engineering and Management, , Mar-April 2020, vol 83, pp 13965 - 13971

- 4 • Amit Kumar, S. R. Leoram Siddarth, **J. Vijayalakshmi**, “Cost+Time Efficient Water Quality Checking Of Rivers And Lakes” , Studies in Indian Place Names, Feb 2020, Vol. 40, Issue 3, pp - 311-317, ISSN: 2394-3114
- 5 • **J. Vijayalakshmi**, Dr. G. Puthilibhai, S.R. Leo Ram Siddarth , “Implementation of Ammonia Gas Leakage Detection and Monitoring System using Internet of Things”, Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, ,Dec 2019, pp 778-791 doi: 10.1109/I-SMAC47947.2019.9032577.
- 6 • **Vijayalakshmi, J.**, Pandimeena, K., 'An Agriculture Talbot using AI International Journal of Recent Technology and Engineering, July 2019,pp 186-190
- 7 • **Vijayalakshmi. J & Rene Robin, CR** , 'An exponent based error detection mechanism against DXDOS attack for improving the security in cloud', Cluster Computing: The Journal of Networks, Software Tools and Applications, March 2018,pp 1-10. (Annexure I)
- 8 • **J. Vijayalakshmi** and Dr. C. R. Rene Robin, “A Framework to Defy DXDOS Against XML Webservices in Cloud Environment Using Modified SOA “, Journal of Computational and Theoretical Nanoscience, Volume 14, Number 9, September 2017, pp. 4429-4433(5) (Annexure I)
- 9 • **J. Vijayalakshmi** and Dr. C. R. Rene Robin, “A Study on Security Methods and its Counter measurements against DXDoS attack in Cloud Computing Environment “,JOURNAL OF APPLIED SCIENCES RESEARCH, 2017 May;13(5):pages 15-20.
- 10 • A.Revathi, **J.vijayalakshmi**, Dr. C. R. Rene Robin, ”AN APPROACH TO TRACEBACK THE IP PACKETS DYNAMICALLY IN DDOS ATTACK “, International Journal of Latest Trends in Engineering and Technology Special Issue NCRTCC 2017, pp.026-031 e-ISSN: 2278-621X.

- 11 • Deviga, **J. Vijayalakshmi**, A. Abdul Rahman, “Determination of Storage Loss in Rice with Respect to Moisture Loss in FCI”, International Journal of Latest Trends in Engineering and Technology”, ISSN: 2278-621X, Special Issue NCTRCC-2016, Pg 36- 41
- 12 • **J. Vijayalakshmi**, C.R. Rene Robin, “Defying XDOS against XML web services in Cloud environment using modified SOA and Cloud Guard”, International Journal of Applied Engineering Research (IJAER) Volume 10, Issue 75, 2015,pg. 46-52, Annexure – II
- 13 • B. Priya, **J. Vijayalakshmi** & J.M. Nandhini, “Implementation of Image compression and Encryption using XML Signatures for Law Enforcing Authorities”, International Journal of Computer Network and Security (IJCNS), Vol 1. No. 1, October-December 2009, Pg. 7-13

International Conference Publications:

- 1 V. K. G Kalaiselvi, **Vijayalakshmi. J**, K. R. V, A. V and L. P. S, "Exercise Evaluation Based on Neural Networks," 2025 International Conference on Computing and Communication Technologies (ICCCT), Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICCCT63501.2025.11018959
- 2 Gomathi S. Delphia I, **Vijayalakshmi J**, ” Secure E-Governance System to Preserve Justice and Right Decision Making Using Cloud Computing”, Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, Volume I , Year 2021, Pages 305-308 DOI:10.1109/ICCCT53315.2021.9711821
- 3 Swetha S, **Vijayalakshmi J**, Gomathi S, “Social Distancing and Face Mask Monitoring System using deep learning based on Covid -19 Directive Measures”, Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, Volume I, Year 2021, Pages 520-526. DOI:10.1109/ICCCT53315.2021.9711880
- 4 Jebaz Selvaraj, Gowri Shanker, **Vijayalakshmi J**, “BaaS Universal Plugin for Software Application”, In the proceedings of 2nd International e-Conference on Information, Communication and Networking(eICICN -2021), April 2021, Easwari Engineering College.
- 5 **Vijayalakshmi J**, Priyadharshini M, Priyadharshini S, “IMPLEMENTATION OF NUMBER DETECTION IN LICENSE PLATE”, In the proceedings of 2nd International e-Conference on Information, Communication and Networking(eICICN -2021), April 2021, Easwari Engineering College.

- 6 **Vijayalakshmi J**, Surya, Sibi Chakravarthi, “Vehicles Number Plate detection deep Neural Network”, In the proceedings of International Conference on Computer Communication and Power System ICCPCS-2020, May 2020, Sri Venkateshwara College of Technology.
- 7 Kannan, N., Leoram Siddarth, S.R., **Vijayalakshmi J.**, 'Device to Check Water Quality Using Internet of Things', In the proceedings of International Conference on Computing and Communication, Feb 2020, Sri Sai Ram Engineering Collge
- 8 **J. Vijayalakshmi**, Dr. G. Puthilibhai, S.R. Leo Ram Siddarth , “Implementation of Ammonia Gas Leakage Detection and Monitoring System using Internet of Things”, Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, ,Dec 2019, pp 778-791 doi: 10.1109/I-
- 9 **J. Vijayalakshmi**, M.Sriharini, C. Vidhya, Latheef Saafia Fathima “Queue Maintenance in public distribution system using Smart Card and Mobile App”, In the proceeding of 7th International Conference on “Contemporary Engineering and Technology-ICCET 2019, Organized by Organization of Science and Innovative Engineering and Technology (OSIET) , March 2019, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai., ISBN 978-93-81288-18-4, pg 181
- 10 **J. Vijayalakshmi**, Pondi Meena K, “Implementation of Agriculture Talkbot Using Artificial Intelligence”, In the proceeding of International Conference on Emerging Trends In Science Engineering & Tech nology(ICETSET-2019), March 2019, Jerusalem College of Engineering, Chennai.
- 11 **J. Vijayalakshmi**, C.R. Rene Robin, “Security Measures against XML Denial of Service attacks in cloud environment - a review “, In the proceeding of International Conference on emerging trends in science, Engineering & Technology (ICETSET-2017), March 2017, SEC, Chennai.
- 12 Deviga, **J. Vijayalakshmi**, A. Abdul Rahman, “Determination of Moisture loss in rice during storage in FCI using K – Mean clustering algorithm”, In the proceeding of International Conference on Computational Science and Technology (ICCST'17), March 2017, Chennai
- 13 **J. Vijayalakshmi**, C.R. Rene Robin, “Defying XDOS against XML web services in Cloud environment using modified SOA and Cloud Guard”, In the proceedings of International conference on Computing and Information Technology (ICCIT'15), August 2015, Chennai
- 14 **J. Vijayalakshmi**, C.R. Rene Robin, “Defying XDOS against XML web services in Cloud environment using modified SOA and Cloud Guard”, In the proceedings of International conference on Computing and Information Technology (ICCIT'15), August 2015, Chennai
- 15 **J. Vijayalakshmi**, “Implementation of web based SMS Alert System using Sharp Reader module users”, , In the Proceedings of the International Conference on Information and Advanced Computing (ICIAC'08) , 23-25 July 2008, BIST Chennai, pg. 230-235.

National Conference Publications

- 1 **J. Vijayalakshmi** and Joseph , “An implementation of Smart Home Automation”. In the proceedings of National conference on E-Vehicle Technology for India -2019, April 2019, RMK Engineering College, Chennai.
- 2 A.R. Aravind and **J. Vijayalakshmi**, “Ammonia Gas Leakage Monitoring System Using

- IOT”, In the proceedings of National Conference on Recent Trends in Computing and Communication – NCRTECC’18, March 2018, Sri Sai Ram Engineering College, Chennai.
- 3 E. Naveenkumar and **J. Vijayalakshmi**, “Dynamic pattern based virus Identification using dynamic program invocation pattern model”, In the proceedings of National Conference on Recent Trends in Computing and Communication – NCRTECC’18, March 2018, Sri Sai Ram Engineering College, Chennai
 - 4 D. Surya Prakash and **J. Vijayalakshmi**, “IoT based water potability monitoring system using pH sensor – A Design”, In the proceedings of National Conference on Recent Trends in Computing and Communication – NCRTECC’18, March 2018, Sri Sai Ram Engineering College, Chennai
 - 5 Chandrika Rao and **J. Vijayalakshmi**, “Applying Hierarchical Divisive Clustering for Decision Making Inventory Management System of Health Care Services”, In the proceedings of National Conference on Recent Trends in Computing and Communication – NCRTECC’18, March 2018, Sri Sai Ram Engineering College, Chennai
 - 6 A.Revathi and **J. Vijayalakshmi**, “An Approach to Traceback the IP Packets Dynamically in DDOS Attack”, In the proceedings of National Conference on Recent Trends in Computing and Communication – NCRTECC’17, March 2017, Sri Sai Ram Engineering College, Chennai
 - 7 A.T. Naveen, and **J. Vijayalakshmi**, “Cloud Computing Security on Availability Issues and its Counter Measures”, In the proceedings of National Conference on Information and Communication Engineering , April 2017, Sri Sairam Institute of Technology, Chennai
 - 8 D. Deviga, **J. Vijayalakshmi**, A. Abdul Rahman,”Determination of Storage Loss In Rice with respect to moisture loss in FCI”, In the proceedings of National conference on Recent Trends in Computing and Communications - NCRTECC’15 ,2016, Sri Sai Ram Engineering College.
 - 9 M.Kalaimadhi, **J. Vijayalakshmi**, ” APPLY PIT AND DETECTING SPOOF ATTACK IN CLOUD”, In the proceedings of National conference on Recent Trends in Computing and Communications - NCRTECC’15 ,2016, Sri Sai Ram Engineering College.
 - 1 T. Durga, **J. Vijayalakshmi**, “Common Audit Processing Authentication of Multiple Bulk Data Cloud Storage With Secure Fine-Grained Updates”, In the proceedings of National conference on Advanced Computing and Information Technology-NACIT’15, 2015, Jerusalem College of Engineering.
 - 11 T. Durga ,**J. Vijayalakshmi**, “Recuperating Integrity of Big Data Storage using Merkle Hash Tree Algorithm and BLS Signature in Cloud Environment”, In the proceedings of National conference on Recent Trends in Computing and Communications - NCRTECC’15 (ISBN: 978-93-81208-47-2), 2015, Sri Sai Ram Engineering College.
 - 12 Ankit Kumar Kothari, **J. Vijayalakshmi**, “Hadoop MapReduce enhancement through improved augmented algorithm”, In the proceedings of National conference on Recent Trends in Computing and Communications - NCRTECC’15 (ISBN: 978-93-81208-47-2), 2015, Sri Sai Ram Engineering College.
 - 13 R. Ashok Kumar, **J. Vijayalakshmi**, “ Implementation of Privacy Maintenance In cloud environment through public audit.”, In the proceedings of National Conference on “Recent advances in computer Technologies - NCRATEC’14”, April 2014, Adhiparasakthi Engineering College,pg. 35-39
 - 14 N. Soundaram, **J. Vijayalakshmi**, “Anonymous authentication of users in Cloud Environment using ABE and ABS Techniques”, In the proceedings of National conference on Recent Trends in Computing and Communications - NCRTECC’14 (ISBN: 978-93-81208- 27-4), 2014, Sri Sai Ram Engineering College.

- 15 **J. Vijayalakshmi, J.N. Rajesh Kumar** " Implementation of defying XDOS attack against web services using SOA architecture & XML Signature", In the proceedings of National conference on converging technologies" (NCCT'10), 2010, DACE
- 16 **J. Vijayalakshmi, J.M. Nandhini and B. Priya**, "A survey on Business process execution language in service chains", In the proceedings of National Conference on Emerging trends in Business strategies and Information systems (NCBSIS'10), February 2010, Thiagarajar School of Management, Madurai.
- 17 **J. Vijayalakshmi, J.M. Nandhini and B. Priya**, "Usage of BPEL in service chain: A survey", In the proceedings of National Conference on Recent Trends in Web Technologies (RTWT'09), March 2009, B.S. Abdur Rahman University. Pg. 13 of 29
- 18 **J. Vijayalakshmi, J.M. Nandhini**, "Ontology development for Heterogeneous data sources using UML for simple semantic information retrieval - A Design Approach", In the Proceedings of National Conference on Recent Trends in Advanced Computing (NCRAC'08), September 2008,SKR Engineering College, Chennai, pg 39 of 55
- 19 **J. Vijayalakshmi, B.Priya** "Implementation of Image compression and Encryption using XML Signatures for Law Enforcing Authorities" , In the Proceedings of the National conference on Recent Research Trends in Advanced Computing (RTAC'08), April 2008, Thiagarajar School of Management, Madurai, Pg. 13 of 15
- 20 **B.Priya, J. Vijayalakshmi** " Categorizing High Performance Computing Clusters based on Operating systems", In the Proceedings of National Conference on Recent Trends and Technologies in soft computing, 2008, St. Peters Engineering College, Chennai.

Patents Grants:Nil

Patents Published:

1. Application No 201941038241, Title: Ammonia Gas Leakage Monitoring System Using IoT
2. Application No 202041050020 A, , Title: IOT based Hardware Platform for Crypto Algorithm Analysis

NPTEL Certifications:

1. Introduction to Blockchain Technology & Applications
2. Data Science for Engineers
3. Internet Of Things
4. Cloud Computing

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