

Curriculum Vitae

Dr.L.Jegatha Deborah

Assistant Professor & Head_{i/c}
Department of Computer Science and Engineering
University College of Engineering Tindivanam,
Melpakkam – 604001.



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Scopus Author ID : 57193846429
IEEE – Senior Member : 97967957

➤ Research Area

1. Machine Learning in Artificial Intelligence.
2. Computational Psychology.
3. VANET Security.

➤ Educational Qualification

| Qualification | Department | Year (From -To) | Percentage | Class |
|---------------|------------|-----------------|------------|------------------------------|
| Ph.D. | CSE | 2009-2013 | NA | NA |
| M.E | CSE | 2003-2005 | 7.9 [CGPA] | First class |
| B.E | CSE | 1998-2002 | 76 | First class [Distinction] |
| XII | Bio-Maths | 1998 | 90 | - |
| X | General | 1996 | 89 | - |

➤ Experience

| Name of Company / Institutions | Designation of Post | Sacle of Pay | From | To | Experience in Year |
|--|---------------------|-------------------|------------|-----------|--------------------|
| University College of Engineering Tindivanam | Assistant Professor | 15600-39100 +6000 | 20.08.2008 | Till date | 14 Years 06 Mon |

| | | | | | |
|--|----------|--------------|------------|------------|------------------|
| All Nations University, West Africa | Lecturer | USD 1100 | 23.01.2007 | 19.08.2008 | 1 Year 6 Mon |
| Sethu Institute of Technology, Madurai | Lecturer | Rs.12,070 | 04.05.2005 | 20.01.2007 | 1 Year, 8 Mon |
| Government Arts and Science College | Lecturer | Rs. 2,500 | 01.09.2002 | 21.02.2003 | 5 Mon |

➤ **Abstract – Professional Activities**

| S.No. | Participation Category | Total Number |
|--------------|--|---------------------|
| 01 | Doctoral Supervisor | 05 |
| 02 | Invited Speaker | 20 |
| 03 | FDP Coordinator | 04 |
| 04 | International Conference Coordinator | 02 |
| 05 | Workshop/Seminar | 03 |
| 06 | Symposium | 05 |
| 07 | Editor and Guest Editor (Special Issue and International Journals) | 06 |

➤ **Abstract – Research Publications**

| S.No. | Publications Category | No. of Publications |
|--------------|---|----------------------------|
| 01 | International Journals | 39 |
| 02 | International Conference Participated | 23 |
| 03 | International Conference Proceedings Only | 06 |
| 04 | National Conferences | 04 |
| 05 | Guest Editor Role - Books | 02 |
| 06 | Editor – International Journals | 06 |
| 07 | Awards and Recognitions | 03 |
| 08 | Books | 02 |
| 09 | Book Chapter | 05 |
| 10 | Patent | 01 |

Google Scholar Citation Abstract as on 21.02.2023

| S.No | Parameter | Value |
|-------------|------------------|--------------|
| 1 | Citations | 1667 |
| 2 | h-index | 17 |
| 3 | i-10 index | 21 |

➤ Additional / Academic Responsibilities at University

1. Head of the Department Incharge for the Department of Computer Science and Engineering from 2008–till date.
2. Head of the Department Incharge for the Department of Information Technology from 2008 - 2010.
3. Class Advisor and mentor for two batch of students.
4. Purchase Committee member for the purchase of hardware equipments for the college and the individual departments.
5. Member of the anti ragging committee for the college.
6. Exam Cell Coordinator (internal examinations) for a period of one year 2012–2013.
7. Appointed as the Chief Superintendent of Anna University Theory examinations for Nov-Dec-Jan 2012 examinations and Apr-May-June 2013 examinations.
8. Youth Red Cross Program Officer from 2008 to till date.
9. Deputy Warden for Girls Hostel from 01-06-2015 to August 2018.
10. Online Classes Coordinator for academic courses from August 2020 to 2021.
11. Member of the Core Committee formed by the Honorable Vice Chancellor, Anna University Chennai since 2022.
12. Member of the Grievance Redressal Committee, UCET for the academic year 2022-2023.
13. Member of the Institute Innovation Council, UCET for the academic year 2022-2023.
14. Anna University Affiliation Inspection Committee Member during May 2022, 2023.
15. Exam Center Head for TNPSC examinations conducted at UCET through TCS, Chennai.
16. Co-Cordinator of Tamilnadu Facilitation Center (TFC 106) for Tamilnadu

Engineering Admissions for 2022-2023, 2023-2024.

17. Single Point of Contact (SPOC) for Naan Mudhalvan Tamilnadu Skill Development Program at UCET for the academic years 2022-2023, 2023-2024.

18. Alumni coordinator – Department of Computer Science and Engineering for the academic year 2024-2025.

➤ Professional Activities

➤ Research

- Supervisor for 05 Ph.D. research scholars pursuing research in Anna University, Chennai.
- Doctoral Committee member for the Ph.D. scholars registered in Sathyabama University, Chennai and VIT University, Vellore.
- Completed viva-voce meeting for Mr.S.Milton Ganesh as a Research Coordinator on the title **“Novel Authentication and Confidentiality Schemes for Secure Mobile Communication in Cloud”**, Dec 2019.
- Completed viva-voce meeting for Mr.R.Vinoth as a Supervisor on the title **“Efficient Anonymous Cloud-Assisted Authenticated and Key Agreement Scheme For Secure Industrial Internet of Things”**, Jan 2022.
- Completed viva-voce meeting for Mr.S.C.Rajkumar as a Supervisor on the title **“LSTM Network-Based Reinforcement Learning for Vehicle Traffic Optimization to Improve Public Guarded Intelligent Transportation”**, July 2022.
- Completed viva-voce meeting for Mrs.R.Karthika as a supervisor on the title **“An intelligent learning and evaluation system based on fuzzy logic and regulatory fit theory”**, February 2023.

➤ Editor

1. Guest editor for the special issue entitled **“Artificial Intelligence in Secure and Efficient Authentication for Internet of Things on Public Cloud”** in the Journal of Security and Communication Networks, Hindawi, July 2022.

2. Academic Editor position in the journal “**Security and Communication Networks**”, Hindawi-Wiley publishers, 2022.
3. Associate Editor position in the journal “**Cybersecurity and Applications**”, KeAi Elsevier Publishers, 2022.
4. Guest Editor for the book “**Secure Data Management for Online Learning Applications**” – Taylor and Francis – CRC Press, August 2021.
5. Editorial Board member for Special Issue on “**Machine Learning, AI and Big Data Methods and Findings for COVID-19**”, Information Systems Frontier – Springer, Vol.23, No.6, pp no. 1363-1367, 2021.
6. Guest Editor for the Special Issue on “**Key Management and Key Distribution for Secure Group Communication in Mobile and Cloud Network**”, FGCS, Elsevier Journal in 2017.
7. Lead Editor for the Special Issue on “**Intelligent Machine Learning Algorithms for High Performance Computing**”, International Journal of Internet Technology and Secured Transactions, Inderscience Publishers in 2017.
8. Guest Editor for Special Issue on “**Intelligent e-Learning Design and Technologies**”, The Online Journal of Distance Education and E-Learning in 2017.

➤ **Technical/Non-Technical Program Coordinator**

1. Coordinated and Celebrated “**Youth Red Cross Day**” as a societal program at Municipality Primary School, Iyyanthoppu, Tindivanam for Primary School Students through Youth Red Cross Volunteers on 15.02.2023.
2. Conducted “**Tree Plantation Program**” through Youth Red Cross Volunteers and I year students at UCET on 22.11.2022.
3. Conducted an Awareness program on “**Importance of Education**” at UCET through Youth Red Cross Volunteers at UCET on 22.11.2022.
4. Coordinated “**Campus Cleaning - On the Eve of Azadi ka Amrit Mahotsav**” at UCET through Youth Red Cross Volunteers at UCET on 12.08.2022.
5. Conducted “**Youth Red Cross Orientation Program**” at UCET on 15.11.2021.

6. Conducted "**Tree Plantation Program**" through Youth Red Cross at UCET on 15.11.2021.
7. Conducted FDP program on "**Mobile Computing**" at UCET during 24-11-2016 to 30-11-2016.
8. Conducted National Level Technical Symposium, "**CAPTIOSUS V2.0**" at UCET on 16-09-2016.
9. Conducted **First International Conference on Recent Trends and Challenges in Computational Models.(ICRTCCM'16)** at UCET during 11-2-2016 to 13-2-2016.
10. Participated and exhibited the research project in the Exhibition on Education, Science, Technology and Innovation organized by CTDT, Anna University Chennai held during 24-01-2016 to 26-01-2016.
11. Conducted National Level Technical Symposium, "**CAPTIOSUS V1.0**" at UCET on 28.08.2015.
12. Conducted FDP program on "**Programming & Data Structures II**" at UCET during 08-06-2015 to 14-06-2015.
13. Conducted Workshop on "**Web services and its applications**" at UCET on 16-03-2015.
14. Conducted Workshop on "**Android Development and its applications**" at UCET on 07-03-2015.
15. Conducted Seminar on "**Artificial Intelligence and Temporal Models**" at UCET on 13-03-2014.
16. Conducted Intra College Technical Symposium, "**UCETROX"13**" at UCET on 11-02-2013.
17. Conducted FDP program on "**Artificial Intelligence**" at UCET during 3-12-2012 to 9-12-2012.
18. Conducted National Level Technical Symposium, "**SERVIDOR2k12**" at UCET on 28-09-2012.
19. Conducted National Level Technical Symposium, "**TECHNOVATION**" at UCET on 19.08.2011.

➤ Invited Talks

1. Delivered lectures on “**Wireless Sensor Networks**” in the Anna University Sponsored Faculty Development Program through Online Mode at University College of Engineering Panruti for two sessions on 22.12.2021.
2. Delivered a lecture on “**Intelligent e-learning system based on Fuzzy logic**” in the Faculty Development Program on Emerging Trends in Information Technology through Online mode at Mailam Engineering College on 27.05.2021.
3. Delivered a lecture on “**HTML**” in the Faculty Development Program on Internet Programming at University College of Engineering Tindivanam on 03-06-2019.
4. Delivered a guest lecture in the School of Cyber Engineering, Xidian University, Xidian, China on 24-05-2018.
5. Speaker for one session in the 4th International Conference on Advanced Research in Engineering and Applied Sciences, SRI College of Engineering and Technology, Vandavasi on 22.03.2017.
6. Speaker in the Faculty Development Program on “**Artificial Intelligence**”, College of Engineering Guindy, Anna University, Chennai on 05.12.2016.
7. Speaker in the Workshop on “**Formulation and Solution of Research Problems**”, Arunai Engineering College, Tiruvanmalai on 12.01.2016.
8. Participated and Evaluated the research projects in the “Science and Technology Project Exhibition (GENERIC 2015) at Mailam Engineering College, Mailam on 10-10-2015.
9. Delivered a seminar, “**Research Challenges in Artificial Intelligence**”, C.Abdul Hakeem College of Engineering and Technology on 19-09-2015.
10. Delivered a guest lecture, “**Data Mining Concepts and Research Issues**”, IFET College of Engineering, Villupuram on 29-08-2015.
11. Delivered a lecture on “**Research Challenges in Artificial Intelligence**”, Adhiparasakthi College of Engineering, Kalavai on 01-08-2015.

12. Delivered a guest lecture, “**Artificial Intelligence**” in the Second International Conference on Advanced Research in Engineering and Applied Sciences, SRI College of Engineering and Technology, Vandavasi on 21.03.2015.
13. Delivered a guest lecture, “**Artificial Intelligence**” in the 4th International Conference on Futuristic Trends in Electronics Engineering, Thiruvalluvar College of Engineering and Technology, Vandavasi on 07.03.2015.
14. Chief Guest and Speaker in the Department Technical Association Inaugural Function and Guest Speaker, Mailam Engineering College, Mailam on 24.08.2013.
15. Speaker for one session in the FDP Program on “**Logic and its applications**”, University College of Engineering Tindivanam, Tindivanam on 01.07.2013.
16. Chief Guest and Speaker in the Department Technical Association Valedictory Function, Mailam Engineering College, Mailam on 30.04.2013.
17. Speaker for one session in the FDP Program on “**Recent Advances in Artificial Neural Networks**”, Manakula Vinayagar Institute of Technology, Puducherry on 22.04.2013.
18. Speaker for one session in the FDP Program on “**Artificial Intelligence**”, University College of Engineering Tindivanam, Tindivanam on 03.12.2012.
19. Invited Speaker in the 3rd International Conference on “Futuristic Trends in Electronics Engineering”, Thiruvalluvar College of Engineering and Technology, Vandavasi on 28.01.2012.
20. Invited Speaker – Valedictory Address in National Level Technical Symposium, Globes’10, VRS College of Engineering and Technology, Villupuram in September-2010.

➤ Membership of Scientific and Professional Societies

1. ISTE Life Member
2. IEEE – Senior Member (2022-2023; 2023-2024)

➤ Sponsored Research Activities

Project Name : Semantic System for Performance Evaluation of E-Learners
Duration : 1 year
Role : Principal Investigator
Agency : Centre for Technology Development and Transfer, Anna University Chennai
Amount : Rs.50,000/-

➤ Seminar / Short Term Course / FDP/ Workshop attended: (Within India)

1. DRDO sponsored Three days workshop (2008) on “**Image Processing Applications in Remote Sensing and Surveillance**”-IPRO’08 organized by P.S.R. Engineering College from 12-06-2008 to 14-06-2008. (03 days)
2. DSA sponsored Workshop (2009) “**Challenges in Intelligent Web Applications**”, organized by Anna University, Chennai during 09-03-2009 to 10-03-2009. (02 days).
3. Community Helpline sponsored program (2009) “**Convention on Safety in Mobility**” organized by Anna University, Chennai on 29-08-2009.
4. TANSACS sponsored Orientation Programme (2009), “**Orientation Programme**” organized by Anna University Chennai on 10-10-2009. (01 day)
5. Orientation Programme (2010), “**Three-day Orientation Programme**” organized by Anna University Chennai during 04-02-2010 and 06-02-2010. (03 days)
6. MHRD-ISTE sponsored program (2010), “**Database Management Systems**”, organized by Anna University, Chennai during 13-12-2010 to 23-12-2010. (11 days).
7. DST sponsored workshop (2011), “**Grid Computing**”, organized by Anna University, Chennai during 07-02-2011 to 11-02-2011. (05 days).
8. MHRD sponsored FDP (2012), “**Writing Effective Conference Papers**”, organized by Anna University, Chennai during 18-02-2012 to 19-02-2012.(02 days).
9. FDP program (2012),”**Software Engineering**”, organized by Anna University, Chennai during 07-05-2012 to 13-05-2012. (07 days).

10. AICTE sponsored program (2012), “**Data Mining and Knowledge Discovery**”, organized by Manakula Vinayagar Engineering College, Puducherry during 28-06-2012 to 30-06-2012. (03 days).
11. First International symposium (2014), “**Big Data and Cloud Computing Challenges**”, organized by VIT University Chennai during 27-03-2014 to 28-03-2014. (02 days).
12. FDP program (2014), “**Database Management Systems**” organized by Anna University, Chennai during 23-06-2014 to 29-06-2014. (07 days).
13. DST – PURSE sponsored workshop (2015), “**Recent Techniques in Web Services and Internet Security**” organized by Anna University, Chennai during 18-02-2015 to 19-02-2015. (02 days).
14. DST – PURSE Workshop (2015), “**Internet of Things (IoT)**”, organized by Madras Institute of Technology, Chennai on 04.11.2016. (01 day)
15. TEQIP Sponsored Workshop (2017), “**Soft Skills Pedagogy**”, organized by Anna University, Chennai during 27.03.2017, 28-03-2017 and 30.03.2017. (3 days)
16. AICTE sponsored Faculty Development Programme (2017), “**IoT (Internet of Things) Issues and Challenges**”, organized by M.A.M. College of Engineering, Siruganur, Tiruchirapalli during 06.11.2017 to 19.11.2017. (14 days)
17. AICTE sponsored two-week Faculty Development Program on “**Smart Grid and Clean Energy Technologies (SGCET-2017)**”, organized by Pondicherry Engineering College, Puducherry during 11-12-2017 to 22-12-2017. (12 days).
18. Anna University sponsord two-week Faculty Development Program on “**Database Management Systems**”, organized by University College of Engineering Tindivanam, Tindivanam during 26-11-2018 to 07-12-2018. (12 days).
19. NITTTR sponsored short term course on Faculty Development Program on “**Personality Development and NLP**”, organized by NITTTR, Chennai during 11-03-2019 to 15-03-2019. (05 days).
20. Anna University Sponsored “**Orientation Program**” for Youth Red Cross program officers on 03-08-2019.

21. MHRD sponsored National seminar on “**e-Learning and MOOCs in Higher Education**” on 14-09-2019.
22. AICTE approved FDP course on “**Pedagogical Innovations and Research Methodology (Interdisciplinary)**” under Annual Refresher Programme in Teaching from 01-10-2019 to 31-01-2020 (16 weeks)- MOOC Course.
23. AICTE approved FDP – NPTEL course on “**Applied Natural Language Processing**” from 14-09-2020 to 04-12-2020 (12 weeks) - MOOC Course.
24. Industrial Training for Faculty on “**Communication and Networking Technologies**” through BSNL from 02-11-2021 to 22-11-2021 (03 weeks).
25. 5 day online Faculty Development Program on “**Inculcating Universal Human Values in Technical Education**” organized by AICTE from 14.03.2022 to 18.03.2022 (5 days).
26. AICTE approved FDP – NITTTR course on “**Student Psychology**” from 30-01-2023 to 28-04-2023 (8 weeks) - MOOC Course.
27. AICTE approved FDP – NPTEL course on “**Psychology of Everyday**” from 21-08-2023 to 15-09-2023 (4 weeks) - MOOC Course.

➤ **International Journals**

1. R Elakkiya, Kuppa Sai Sri Teja, **L. Jegatha Deborah**, Carmen Bisogni, Carlo Medaglia, “Imaging based cervical cancer diagnostics using small object detection-generative adversarial networks”, Springer - Multimedia Tools and Applications, Vol. 81, no.01, 2022.
2. R.Karthika, **L.Jegatha Deborah**, “Enhanced Learning Experiences Based on Regultaory Fit Theory Using Affective State Detection”, International Journal of Semantic Web and Information Systems, IGI Global, Vol17, no.04, 2021.
3. S.C. Rajkumar. S C, **Jegatha Deborah L**, Vijayakumar. P, “Deep Reinforcement Learning based pedestrian and independent vehicle safety fortification using intelligent perception” International Journal of Software Science and Computational Intelligence (IJSSCI), IGI Global, Volume 14, Issue 1, Article 5, 2021.
4. Rajkumar. S C, **Jegatha Deborah L**, Vijayakumar. P, “Passive-Awake Energy Conscious Power Consumption in Smart Electric Vehicles Using

Cluster type Cloud Communication” International Journal of Cloud Applications And Computing (IJCAC), IGI Global, Accepted with revision on 30.07.2021

5. S.C.Rajkumar, **L.Jegatha Deborah**, “An improved public transportation system for effective usage of vehicles in intelligent transportation system”, Wiley – International Journal of Communication Systems, Vol34, no.13, June 2021.
6. QingFan, JianhuaChen, **Lazarus Jegatha Deborah**, MinLuo, “A secure and efficient authentication and data sharing scheme for Internet of Things based on blockchain”, Elsevier- Journal of Systems Architecture, Vol. 117, August 2021.
doi: <https://doi.org/10.1016/j.sysarc.2021.102112>
7. M.Azees, P.Vijayakumar, **L.Jegatha Deborah**, K.Marimuthu, C.Mary Subaja, "BBAAS: Blockchain-Based Anonymous Authentication Scheme for Providing Secure Communication in VANETs", Security and Communication Networks, vol. 2021, 2021.
Doi : <https://doi.org/10.1155/2021/6679882>
8. Vinoth R, **L.Jegatha Deborah**, P.Vijayakumar, Kumar Neeraj, “Secure Multi-factor Authenticated Key Agreement Scheme for Industrial IoT”, IEEE Transactions on Internet of Things, Article DOI 10.1109/jiot.2020.3024703.
9. Guruvammal, S., Chellatamilan, T., **Jegatha Deborah. L.**, ‘Automatic Detection of Autism in Young Children using Weighted Logarithmic Transformed Data with Optimized Deep Learning ', Accepted to The Computer Journal on 13th June, 2021.
10. Guruvammal, S., Chellatamilan, T., **Jegatha Deborah, L.**, 2020, ‘Optimal Feature Selection and Hybrid Classification for Autism Detection in Young Children, Published in on online, The Computer Journal, Vol.34, no.13, 2021.
11. Ramu Naresh, P.Vijayakumar, **L.Jegatha Deborah**, Radhakrishnan Sivakumar, “A novel trust model for secure group communication in distributed computing”, Journal of Organizational and End User Computing, Vol.32, no.03, 2020.

12. Guruvammal, S., Chellatamilan, T., **Jegatha Deborah, L.**, 'Word Based Language Model Using Long Short Term Memory For Disabilities', International Journal of Psychosocial Rehabilitation, Vol.24, no.6, pp. 6509-6513, 2020.
13. R.Karthika, L.Jegatha Deborah, P.Vijayakumar, "Intelligent e-learning system based on fuzzy logic", Neural Computing and Applications, Springer, Vol.32, no.12, 2020.
14. **L.Jegatha Deborah**, C.Rajkumar, P.Vijayakumar, "Optimized Traffic Flow Prediction based on Cluster Formation and Reinforcement Learning", International Journal of Communication Systems, Wiley, 2019. Article DOI: 10.1002/dac.4178, November 2019.
15. P.Vijayakumar, Victor Chang, **L.Jegatha Deborah**, Balamurugan Balusamy, P.G.Shynu,"Computationally Efficient Privacy Preserving Anonymous Mutual and Batch Authentication Schemes for Vehicular Ad Hoc Networks", Future Generation Computer Systems, Elsevier, Volume 78, no.3, pp.943-955, January 2018.
16. P Vijayakumar, V Chang, **L Jegatha Deborah**, BSR Kshatriya, "Key management and key distribution for secure group communication in mobile and cloud network", Future Generation Computer Systems, Elsevier, Volume 84,pp.123-125, July 2018.
17. M.Azees, P.Vijayakumar, **L.Jegatha Deborah**, "EAAP: Efficient Anonymous Authentication With Conditional Privacy-Preserving Scheme for Vehicular Ad Hoc Networks", IEEE Transactions on Intelligent Transportation Systems, Volume 18, no. 9, pp. 2467 - 2476, September 2017.
18. P.Vijayakumar, P.Pandiaraja, Marimuthu Karuppiah, **L.Jegatha Deborah** "An efficient secure communication for healthcare system using wearable devices", Computers & Electrical Engineering, Elsevier, Available online 25 April 2017.
19. Pandi Vijayakumar, Maria Azees, Victor Chang, **L.Jegatha Deborah**, Balamurugan Balusamy, "Computationally Efficient Privacy Preserving Authentication and Key Distribution Techniques for Vehicular Ad Hoc

- Networks”, Cluster Computing, Volume 20, no. 3, pp.2439–2450, September 2017.
20. R. Manikandan, A. Renga Rajan, **L.Jegatha Deborah**, “QOS routing protocol to detect maximum available bandwidth in WMCs”, International Journal of Internet Technology and Secured Transactions, Volume 7, no. 3, 2017.
 21. P.Vijayakumar, M.Azees, A.Kannan, **L.Jegatha Deborah**, “Dual Authentication and Key Management Techniques for Secure Data Transmission in Vehicular Ad- hoc Networks”, IEEE Transactions on Intelligent Transportation Systems, Volume 17, no.4, pp. 1015 – 1028, April 2016.
 22. M.Azees, P.Vijayakumar, **L.Jegatha Deborah**, “A Comprehensive Survey on Security Services in Vehicular Ad Hoc Networks”, IET Intelligent Transport Systems, Volume 10, no. 6, pp. 379 - 388, August 2016.
 23. P.Vijayakumar, R.Naresh, **L.Jegatha Deborah**, SK Hafizul Islam, “An Efficient Group Key Agreement Protocol for secure P2P Communication”, Security and Communication Networks, Wiley, Volume 9, no.17, pp.3952–3965, November 2016.
 24. P.Vijayakumar, S.Milton Ganesh, **L.Jegatha Deborah**, and Bharat S.Rawal, “A new SmartSMS protocol for secure SMS communication in m-health environment”, Computers & Electrical Engineering, Elsevier, Available online 7 December 2016.
 25. P.Vijayakumar, R.Naresh, **L.Jegatha Deborah**, SK Hafizul Islam, “An Effective Key Distribution for secure internet Pay-TV using access key heirarchies”, Security and Communication Networks, Wiley, Volume 9, no.18, pp.5085–5097, 2016.
 26. S.MiltonGanesh, P.Vijayakumar, and **L.Jegatha Deborah**, “A Comprehensive Survey on Gesture Based Authentication Schemes in Smart Phones”, Australian Journal of Basic and Applied Sciences, Volume 10, no. 2, pp. 27-36, 2016.
 27. **L.Jegatha Deborah**, R.Sathiyaseelan, S.Audithan and P.Vijayakumar, “Fuzzy- logic based learning style prediction in e-learning using web

- interface Information”, Springer – Sadhana – Academy Proceedings in Engineering Sciences”, Volume 40, no.2, pp.379–394, April 2015.
28. **L.Jegatha Deborah** and P.Vijayakumar, “Fuzzy Model with Learning Approaches for Classification Problem”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Volume 2, no.10, October 2015 [ISSN(online): 2394-3785].
 29. **L.Jegatha Deborah** and P.Vijayakumar, “A Detailed Analysis of Feature Subset Selection Techniques for Classification Algorithms”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Volume 2, no.9, 2015 [ISSN(online): 2394-3785].
 30. **L.Jegatha Deborah** and P.Vijayakumar, “Enhanced Detection of Learners Learning Styles for e-learning”, International Journal of Technology and Engineering Systems (IJTES), Volume 7, no.2, 2015 [ISSN(online): 0976-1345].
 31. P.Vijayakumar and **L.Jegatha Deborah**, “ElGamal Cryptosystem based group key management for Peer to Peer Communication”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Volume 2, no.9, 2015 [ISSN(online): 2394-3785].
 32. P.Vijayakumar and **L.Jegatha Deborah**, “A Detailed Survey on Secure Multicast Group Key Management Schemes” International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Volume 2, no.10, 2015 [ISSN(online): 2394-3785].
 33. **L.Jegatha Deborah**, R.Baskaran and A.Kannan, “Learning styles assessment and theoretical origin in an E-learning scenario: a survey”, Springer-Artificial Intelligence Review (AIRE), Volume 42, no.4, pp. 801-819, 2014.
 34. **L.Jegatha Deborah**, S.Dhivya Lakshmi and A.Bharathi, “Hybrid Clustering Framework Using Concurrences and Constraints”, International Journal of Scientific and Engineering Research (IJSER), Volume 5, no.5, pp. 485-493, May 2014 [ISSN 2229-5518].
 35. P.Vijayakumar, S.Bose, A.Kannan and **L.Jegatha Deborah**, “Computation and Communication Efficient Key Distribution Protocol for

- Secure Multicast Communication”, KSII Transactions on Internet and Information Systems, Volume 7, no.4, pp.878 -894, April 2013.
36. **L.Jegatha Deborah**, R.Baskaran, and A.Kannan, “Deontic Logic based Ontology Alignment Technique for E-Learning”, International Journal of Intelligent Information Technologies (IJIIT), Volume 8, no.3, pp. 56-72, July 2012.
 37. **L.Jegatha Deborah**, R.Baskaran and A.Kannan “Visualizing Domain Ontology using Enhanced Anaphora Resolution Algorithm”, International Journal of Database Management Systems (IJDMS), Volume 3, no.3, pp. 110-123, August 2011[ISSN 0975-5705].
 38. **L.Jegatha Deborah**, R.Baskaran, A.Kannan and P.Vijayakumar, “Intelligent Agent Based Pair Programming and Increased Self -Efficacy through Prior-Learning for Enhanced Learning Performance”, Malaysian Journal of Computer Science (MJCS), Volume 26,no.2, pp. 87 – 100, 2011.
 39. **L.Jegatha Deborah**, R.Baskaran and A.Kannan “A Survey on Internal Cluster Validity indices”, International Journal of Computer Science and Engineering Survey (IJCSES), Volume 1, no. 2, pp.85-102, November 2010.

➤ **International Conferences Participated**

1. K.Karunya, S.Aarthy, R.Karthika, **L.Jegatha Deborah**, “Analysis of Students Feedback and Recommendation to Tutors”, International Conference on Communication and Signal Processing (ICCSP) – IEEE Xplore, September 2020.
2. C.Rajkumar and **L.Jegatha Deborah**, “Intelligent Request Grabber: Increase the vehicle traffic Prediction Tare using social and taxi request based on LSTM”, 2nd International Conference on computer Networks, Big Data and IoT- Springer Publication, December-2019.
The same paper was given the “**Best Paper Award**” in the conference.
3. R.Vinoth and **L.Jegatha Deborah**, “A survey on efficient storage and Retrieval System for the implementation of Data Deduplication in Cloud”,

- 2nd International Conference on Computer Networks, Big Data IoT-
Springer Publication, December 2019.
4. S.Guruvammal, T.Chellatamilan, **L.Jegatha Deborah**, “Word based language model using shorter memory for disabilities”, IEEE and AICTE Sponsored International Conference on computer communication and Informattics, January 2020.
 5. R.Karthika and **L.Jegatha Deborah**, “An Efficient Semantic based Clustering Algorithm for Textual Documents”, IEEE International Conference on Circuits and Systems in Digital Enterprise Technology, December 21-22, 2018.
 6. R.Manikandan, **L.Jegatha Deborah**, and A.RengaRajan, “QOS Routing Protocol to Detect Maximum Available Bandwidth in WMNs”, International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM’17), UCET, Feb 2017.
 7. S.MiltonGanesh, P.Vijayakumar, and **L.Jegatha Deborah**, “A Secure Gesture Based Authentication Scheme to Unlock the Smart Phones”, International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM’17), UCET, Feb 2017.
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 10. R.Manikandan, **L.Jegatha Deborah**, N.Arul, P.Ashok Kumar and A.RengaRajan, “System of Systems for Observation and Response in Quality-of- Service for Cloud Computing Environments”, International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM’16), UCET, Feb 2016.
 19. **L.Jegatha Deborah**, M.G.Lavakumar and T.Shenbagavalli, “Semi-Supervised Document Clustering via Pairwise Constraints”,

International Conference on Recent Developments in Engineering & Technology 2015, March 2015.

20. **L.Jegatha Deborah** and M.Arokiamuthu, “Relationship Pattern Matching And Clustering Based Filtering For Big Data Application”, International Conference on Recent Developments in Engineering & Technology 2015, March 2015.
21. **L.Jegatha Deborah**, “Intelligent Agent-based Pair Programming for E- Learning”, 4th International Conference on Futuristic Trends in Electronics Engineering (ICFTEE 2015), March 2015.
22. **L.Jegatha Deborah**, “An Intelligent Agent-based framework for Proactive web services in E-Learning”, Second International Conference on Advanced Research in Engineering and Applied Sciences, March 2015.
23. **L.Jegatha Deborah**, “Students Performance Evaluation In E-Learning Based on Pair Programming- A Comparative Analysis”, International Conference on Modeling Optimization and Computing (ICMOC 2012), April 2012.
24. **L.Jegatha Deborah**, V.Karthika, R.Baskaranand A.Kannan,“ Deontic based Ontology Matching for Conflict Resolution between Text Documents” 5th International Conference on Information Processing, vol. 157, pp 149-154, August 5-7, 2011.
<http://link.springer.com/chapter/10.1007%2F978-3-642-22786-18>.
25. **L.Jegatha Deborah**, R.Baskaran and A.Kannan, “Ontology Construction Using Computational Linguistics for E-Learning”, IVIC’11 Proceedings of the Second international conference on Visual informatics: sustaining research and innovations – vol. Part II, pp 50-63, 2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-25200-6_6.

➤ **International Conferences Proceedings Only**

1. P.Vijayakumar, M.Azees and **L.Jegatha Deborah**, “CPAV: Computationally Efficient Privacy Preserving Anonymous Authentication Scheme for Vehicular Ad Hoc Networks” Accepted and presented in the 2nd IEEE International Conference on Cyber Security and Cloud

Computing, New York, USA, 2015.

2. **L.Jegatha Deborah**, V.Karthika, R.Baskaran and A.Kannan
“Enhanced Anaphora Resolution Algorithm facilitating Ontology Construction”, First International Conference, ACITY 2011, vol. 198, pp 526-535, July 15-17,2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-22555-0_54.
3. **L.Jegatha Deborah**, V.Karthika, R.Baskaran and A.Kannan,
“Deontic-based Ontology Matching for Conflict Resolution between Text Documents” 5th International Conference on Information Processing, vol. 157, pp 149-154, August 5-7, 2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-22786-8_18.
4. **L.Jegatha Deborah** and P.Vijayakumar, “Dynamic Ontology Alignment Framework based on Linguistics, Summary and Structures”, Eighth International Conference on Data Mining and Warehousing, Accepted for publication in ElsevierProceedings.
http://www.elsevierst.com/conference_book_download_chapter.php?cbid=78#chapter10.
5. **L.Jegatha Deborah**, R.Karthika, S.Audithan and B.Kiran Bala,
“Enhanced Expressivity using Deontic Logic and Reuse Measure of Ontologies”, Eleventh International Conference on Data Mining and Warehousing, ICDMW 2015 Proceedings of the Eleventh International Conference on Data Mining and Warehousing in Elsevier Procedia Computer Science, vol.54,pp 318-326, 2015.
<http://www.sciencedirect.com/science/journal/18770509/54>.
6. P.Vijayakumar, **L.Jegatha Deborah** and R.Seshadri, “Efficient Key Management Scheme for securing data in Cloud”, International Conference on Intelligent Information Technologies (ICIIT 2014), 2014.

➤ National Conferences

1. **L.Jegatha Deborah** and P.Vijayakumar “Enhanced Detection of Learners Learning Styles for E-Learning”, National Conference on Computing Techniques (NCCT '15), pp. 464 – 477, March 2015.
2. S.Senthil Nayaki, **L. Jegatha Deborah**, R. Baskaran and A. Kannan

“A Similarity measurement technique for ontology construction in intelligent web based e-learning”, National Conference on Advanced Pattern Mining and Multimedia Computing, pp. 112-122, Feb 2010.

3. P.Vijayakumar and **L.Jegatha Deborah**, “Tree based Key Management Scheme for Secure Multimedia Multicast”, National Conference on Computing and Applications (NACCA 06), pp. 238 – 244, February 2006.
4. **L.Jegatha Deborah** and G.Hemalatha, “Agent Assisted Web Mining”, National Conference on Recent Advances and Future Trends in IT, pp.11-19, February 2005.

➤ **Awards and Recognitions**

1. Received “**Best Paper Award**” for the research paper entitled “Intelligent Request Grabber: Increase the vehicle traffic Prediction Tare using social and taxi request based on LSTM”, in the 2nd International Conference on computer Networks, Big Data and IoT- Springer Publication in December-2019.
2. Received “**Key Performer Award**” for the Academic and Administrative achievements in University College of Engineering Tindivanam during the academic year 2022-2023.

➤ **Books**

1. Published the book “Fundamentals of Digital Logic” through All Nations University, Koforidua, in the year 2007.
2. Editor for the book titled “Solutions to Secure Data Management Issues for Online Learning Applications”, Taylor and Francis, CRC Press, April 2023.

➤ **Book Chapter**

1. Published a chapter entitled “**A Novel E-learning Management System for Appropriate Recommendations on the learning contents**” for the book titled “Recent Advances in Intelligent Technologies and Information Systems” in 2013 under **IGI Global Publishers**, United States of America, pp. 16-45, Oct 2014, DOI: 10.4018/978-1-4666-6639-9.
2. Published a research chapter entitled “**Medical Decision support system using Data Mining: An Intelligent Health care Monitoring**

System Guarded Travel” for the Book “Handbook of Computational Intelligence in Biomedical Engineering and Healthcare”, **Elsevier Publication**, Jan 2020.

3. Published a research chapter entitled “**Autism detection in young children using optimized long short term memory**” for the Book “Data Intelligence and Cognitive Informatics”, **Springer: Algorithms for Intelligent Systems**, Sep 2022.
4. Published a research chapter entitled “**An efficient privacy preserving and public auditing data integrity verification protocol for cloud based online learning environments**” for the Book “**Secure Data Management for Online Learning Applications**”, Taylor and Francis, CRC Press, April 2023.
5. Published a research chapter entitled “**A novel secure e-learning model for accurate recommendations of learning objects**” for the Book “**Secure Data Management for Online Learning Applications**”, Taylor and Francis, CRC Press, April 2023.

➤ **Patent**

1. Filed and published work on “**Method for Healthcare Assistance by Artificial Intelligence Based Chat Bot Using Natural Language Processing**”, bearing No. 202041031127 on 21-07-2021, National.

DECLARATION

I certify that the information furnished above is correct to the best of knowledge and belief.