

**Name: K. Lakshmi**



Designation: Professor/ CSE

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**Total Experience (Years) : 25 years**

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## **Publications**

### **International Journal**

1. S. Jayashri, M. Thoulath Kani, M.Vikram Pandi, B. Yazhisree, Dr. K. Lakshmi; Video Analytics on Social Distancing and Detecting Mask-A detailed Analysis, International Journal of Advanced Engineering Research and Science (IJAERS), vol. 8, no. 5, pp. 14-20, 2021, AI Publication.- <https://ijaers.com/detail/video-analytics-on-social>
2. S.Jayashri, M.Thoulath kani ,M.Vikram pandi, B.Yazhisree and Dr.K.Lakshmi; Video Analytics On Social Distancing And Detecting Mask, Turkish Journal of Computer and Mathematics Education, vol. 12 no. 9 pp. 2916-2921 2021 (**Scopus Indexed**)
3. K. Lakshmi, T. Devendran; Human Fall Detection Using Motion History Image and SVM, Advanced Informatics for Computing Research, 2021, Springer Nature Singapore, pp 466-476, <https://doi.org/10.1007/978-981-16-3660-8> (**Scopus Indexed - Book Chapter**)
4. Karthika, Ms K; Manjula, Ms S; Lakshmi, K, Implementation of IOT Based System Using Image Processing Techniques To Monitor The Environmental Factors Influencing The Crop Growth, Studies in Indian Place Names, vol. 40, no. 60, pp. 25-30, 2020
5. Lakshmi, K; Devendran, T; Veeraventhana, R; Sivashankar, T; Fall Detection System for Elder People, Studies in Indian Place Names, vol. 40 no. 60 pp. 3851-3861, 2020
6. N. Abirami, Dr. K. Lakshmi.; A Comparative Study on Smart Parking using Internet of Things, International Journal of Advanced Science and Technology, vol.29, no. 3, pp. 11637-11647, 2020, Science & Engineering Research Support Society (**Scopus Indexed**)
7. Poonguzhali, R; Lakshmi, K; Analysis on the Performance of Some Standard Deep Learning Network Models for Question Answering Task, Journal of Critical Reviews, vol.7, no. 14, pp. 2353-2363, 2020
8. Poonguzhali, Dr.K.Lakshmi R.; A Bi-model MemN2N Network for Complex Question Answering Task International Journal of Future Generation Communication and Networking, vol. 13, no.3, pp. 982-995, 2020, SERSC
9. R. Poonguzhali, Dr. K. Lakshmi, Evaluating the Performance of Recurrent Neural Network based Question Answering System with Easy and Complex bAbI QA Tasks,

- International Journal of Advanced Science and Technology, vol. 29, no. 5, pp. 1389-1402, 2020, Science and Engineering Research Support Society
10. R. Poonguzhali, K. Lakshmi, Analysis on the Language Independent and Dependent Aspects of Deep Learning based Question Answering Systems, International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol. 9, no. 6, pp. 2057-2062, 2020, Blue Eyes Intelligence Engineering & Sciences Publication (**Scopus Indexed**)
  11. Lakshmi, R. Poonguzhali Dr. K, Evaluating the Performance of Keras Implementation of MemNN Model for Simple and Complex Question Answering Tasks, TEST Engineering and Management, vol.82 pp. 9620-9629, 2020, The Mattingley Publishing Co., Inc.
  12. Kavitha, T; Lakshmi, K, Evaluation of the Performance of Tiny YOLOv3 based Drone Detection System with Different Drone Datasets, Journal of Critical Reviews, vol.7, no.14, pp. 835-848, 2020 doi:10.31838/jcr.07.14.208
  13. N.Thilagavathi, K. Lakshmi, An Index Based Graph Plan Approach to Enhance Performance of Web Service Composition, Journal of Advanced Research in Dynamical and Control, vol. 12, no. 6, pp.2409-2426, 2020 (**Scopus Indexed**)
  14. K.M.Arivu Chelvan, K.Lakshmi, Evaluating the Natural Language Understanding of a Machine by Answering Multiple Choice Questions for a Comprehension Text using proposed LKD Mode, International Journal of Recent Technology and Engineering (IJRTE), vol. 7, issue 6S2, pp.891-896, 2019, Blue Eyes Intelligence Engineering & Sciences Publication (BEIESP) (**Scopus Indexed**)
  15. Poonguzhali, R.; Lakshmi, K., Temporal Question Answering System: A Survey, Journal of Emerging Technology and Innovative Research, vol. 6, no.6, 2019
  16. R. Vasanthakumar, K. D. Darsini, S. Subbaiah, Dr. K. Lakshmi (2018). **IoT for monitoring diabetic patients**. *International Journal of Advance Research, Ideas and Innovations in Technology*, 4(2) pp. 2149-2157 www.IJARIT.com.
  17. V. Hamsadhwani, Dr. K. Lakshmi, Dr. Arun Pachai Kannu, Centralized Sensing and Scheduling in Multi-User Cognitive Radio Networks, International Journal of Applied Engineering Research, vol. 13, no. 8, pp. 6463-6471, 2018
  18. N.Thilagavathi, Dr. K. Lakshmi, Banupriya, S.Sandhiya, Web Service Composition Verification - A Study on open challenges Journal of Advanced Research in Dynamical and Control Systems 07-Special Issue, pp. 1883-1893, 2018, ISSN 1943-023x (**Scopus Indexed**)
  19. Hamsadhwani, V; Kannu, Arun Pachai; Lakshmi, K, Stability of Queues in Multi-User Cognitive Radios International Journal of Applied Engineering Research, vol. 12, no. 13, pp. 3810-3816, 2017
  20. Manjula, S; Lakshmi. K, A survey on Event detection in Surveillance Videos, Indian Journal of Scientific Research, vol. 14, no. 1, pp. 192-195, 2017
  21. Lakshmi, K. M. Arivuchelvan K., Reading Comprehension System - A Review, Indian Journal of Scientific Research, vol. 14, no. 1, pp. 83-90, 2017, 529 D/1/P-002, Pragati Vihar, Kalyanpur, Lucknow, Pin Code-226022, U.P., India  
<https://www.ijsr.in/upload/43659869818.pdf>
  22. Dr. K. Lakshmi, Dr. P. Raja Priya, Dr. T. Nivedhitha, Naive Bayesian Model for Predicting Mode of Delivery, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), vol. 2, no. 4, pp. 562-565, 2017

23. Parkavi, A; Lakshmi, K; Srinivasa KG, Predicting Effective Course Conduction Strategy using Datamining Techniques, Educational Research and Reviews, vol. 12, no. 24, pp. 1188-1198, 2017, Academic Journals
24. L. Jayanthi, K. Lakshmi, Performance Study of Content Based Image Retrieval System, International Journal of Electronics and Communication Engineering and Technology (IJECET), vol. 8, no. 6, pp. 48-61, 2017, ISSN Print: 0976-6464 and ISSN Online: 0976-6472 © IAEME Publication
25. Manjula, S; Lakshmi, K, A Study on Object Detection, International Journal of Pharmacy & Technology, vol.8, no. 6, pp. 22875- 22885, 2016
26. Lakshmi K., Case Study on C-Programming Questions from the Perspective of Blooms Cognitive Level, **International Education and Research Journal**, [S.l.], v. 3, n. 2 , Feb. 2017. ISSN 2454-9916. Available at: <<http://ierj.in/journal/index.php/ierj/article/view/725/702>>. Date accessed: 12 Aug. 2021.
27. L. Jayanthi, K. Lakshmi, An Effective Content Based Image Retrieval System Using Support Vector Machines Classifier, International Journal of Applied Engineering Research, vol. 10, no.14, pp.34001- 34007, 2015, ISSN 0973-4562
28. L. Jayanthi, K. Lakshmi, Performance Enhancement of Content Based Image Retrieval System by Integration of Suitable Image Features, Indian Journal of Science and Technology, vol. 8, no. 28, *doi:10.17485/ijst/2015/v8i28/75065*, October 2015
29. L. Jayanthi, K. Lakshmi, A Refined Euclidean Distance Matching Technique for Improved CBIR using Colour, Straight Line and Outline Sketch Features of the Image, Global Journal for Research Analysis, vol. 3, no. 11, pp. 41-44, 2014
30. Jayanthi, L; Lakshmi, K, An Enhanced Content Based Image Retrieval using Three Region Colour Histogram of the Image, International Journal of Scientific Research, vol. 3, no. 4, pp. 73-76, 2014
31. S. Vishnupriya, K. Lakshmi; Face Recognition Under varying Lighting Conditions and Noise Using Texture Based and SIFT Feature Sets International Journal of Computer Science and Technology, vol. 3, no. 4, pp. 457-461, 2012
32. Murugesan, Meenakshi Sundaram; Lakshmi, K; Mukherjee, Saswati; A negative category based approach for Wikipedia document classification International Journal of Knowledge Engineering and Data Mining vol. 1 no. 1 pp. 84-97, 2010, Inderscience Publishers (**Scopus Indexed**)
33. Lakshmi, K., Sridevi R, Signature analysis of UDP streams for intrusion detection using data mining algorithms Signature, International Journal on Computer Science and Engineering , vol. 2, no.7, pp. 2461-2465, 2010, ISSN - **0975-3397**
34. Lakshmi, K; Mukherjee, Saswati, Using cohesion-model for Story Link Detection System, JCSNS International Journal of Computer Science and Network Security, vol. 7, no. 3, pp. 59-66, 2007
35. Lakshmi, Krishnamurthy; Mukherjee, Saswati, Improved IR in cohesion model for link detection system Industrial Conference on Data Mining, pp. 148-162, 2007Springer, Berlin, Heidelberg (**Scopus Indexed – Book Chapter**)

### International Conference

1. K. Lakshmi, K.M. Arivuchelvan, A survey on Datasets for Machine Reading Comprehension, International conference on Recent Trends in Computing,

Communication and Networking Technologies (ICRTCCNT'19), 2019 (**Scopus Indexed**)

2. S. Manjula, K. Lakshmi, Detection and Recognition of Abnormal Behaviour Patterns in Surveillance Videos Using SVM Classifiers, International conference on Recent Trends in Computing, Communication and Networking Technologies (ICRTCCNT'19), 2019 (**Scopus Indexed**)
3. K. Lakshmi, T. Nivedhitha; Rule Induction for Predicting the Labor Onset using Cervical Length, in proceedings of Global Conference for Advancement in Technology (GCAT) Doi: 2019978-1-7281-3694-3/19 ©2019 IEEE (**Scopus Indexed**)
4. Parkavi A, Lakshmi K, Pattern analysis of blooms knowledge level students performance using association rule mining, In proceedings of IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM), Chennai, pp. 90-93, 2017, IEEE (**Scopus Indexed**)
5. Parkavi A, Lakshmi K, Predicting the course knowledge level of students using data mining techniques, In proceedings of IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM), Chennai, 2017, pp. 128-133, 2017, IEEE (**Scopus Indexed**)
6. Parkavi.A, K.Lakshmi, K.G.Srinivasa, An Association Rule Mining based Learning Analytics using Bloom's Taxonomy, in Proceedings of international conference on Big-data and Cloud Computing (ICBDCC 17), 2017
7. Krishnamurthy, Lakshmi; Kesavan, Jayanthi, An improved Content Based Image Retrieval Using Three Region Colour and Straight Line Signatures of the Image, International Conference on Communications and Signal Processing (ICCSP), pp. 1919-1924, 2015, IEEE (**Scopus Indexed**)
8. Jayanthi, L; Lakshmi, K, An Improved Content Based Image Retrieval using Three Region Colour, Straight-line and Outline Signatures of the Image, International Conference on Information Communication and Embedded Systems (ICICES2014), 6-Jan 2014, IEEE (**Scopus Indexed**)
9. L.Jayanthi, Dr.K.Lakshmi, An Improved Content Based Image Retrieval using Three Region Color, Straight Line and Outline Signatures of the Image, International Conference on Information Communication and Embedded Systems 2014, ISBN No. 978-1-4799-3834-6
10. L.Jayanthi, Dr.K.Lakshmi, An improved Content Based Image Retrieval using Three Region Colour and Straight line Signatures of the Image, International Conference on Communication and Signal Processing (ICCSP'14) 2014
11. L.Jayanthi, Dr.K.Lakshmi, An Improved Content Based Image Retrieval Using Three Region Color, Straight-Line and Outline Sketch of the Image International Conference on Electrical, Communication and Computing 2014
12. S.Vishnupriya, Dr.K. Lakshmi, Enhanced Feature Sets for Face Recognition with Varying Lighting Conditions and Noise, 1st International conference on advances in communication and computation (ICACC) , 2012
13. Shanthi. K, Lakshmi. K, Hybridization of Fuzzy Self Constructing and Particle Swarm Optimization Clustering of Features for Text Classification, Engineering Post Graduate Research Conference 2011 (ENGGPOS-2011), 2011
14. Murugesan, Meenakshi Sundaram; Lakshmi, K; Mukherjee, Saswati, Exploiting negative categories and Wikipedia structures for document classification, 2009

- International Conference on Advances in Recent Technologies in Communication and Computing, pp. 868-872, 2009 IEEE (**Scopus Indexed**)
15. Murugesan, M; Lakshmi, K; Mukherjee, Saswati; A categorization approach for wikipedia collection based on negative category information and initial descriptions, Proc. of the Initiative for the Evaluation of XML Retrieval (INEX 2007), pp. 212-214, 2007
  16. K. Lakshmi, Saswati Mukherjee; Semantic Information Retrieval for Story Link Detection System, International Conference on Information and Communication Technology, 2007
  17. K. Lakshmi, Saswati Mukherjee, Category Based Feature Weighting for Automatic Text Categorization, Indian International Conference on Artificial Intelligence, 2007
  18. K. Lakshmi, Saswati Mukherjee, Improving Link Detection System using SVM with Context-Graph, Indian International Conference on Artificial Intelligence, 2007
  19. Lakshmi, K; Mukherjee, Saswati; An improved feature selection using maximized signal to noise ratio technique for TCThird International Conference on Information Technology: New Generations (ITNG'06), pp. 541-546, 2006, IEEE (**Scopus Indexed**)
  20. Lakshmi, K; Mukherjee, Saswati; Profile extraction from mean profile for automatic text categorization International Conference on Computational Intelligence for Modelling, Control and Automation and International Conference on Intelligent Agents, Web Technologies and Internet Commerce (CIMCA-IAWTIC'06), pp. 384-389, 2005, IEEE (**Scopus Indexed**)

### **National Conference**

1. Vaishnavi, Ms R; Manjula, Ms S; Lakshmi, K; Comparison of Image Segmentation Methods in an Experimental Way, in proceedings of 2nd National Level Conference on Recent Trends in
2. Engineering, Technology and Management Sciences (RTETMS-2020)" organized by Dr.K.V.Subba Reddy Institute of Technology, Kurnool, Andhra Pradesh on 26th June 2020
3. Ms. Manjula, Dr. K. Lakshmi, Visual Surveillance on Detecting Fire in Rural Area using Distributed Wireless Sensor Network, CSIR Sponsored National Conference on Efficient Implementation of Recent IT Trends for Rural Development, 2013
4. L. Jayanthi, Dr. K. Lakshmi, Retrieval of Desired Information from Digitally Recorded Lecture Videos National Conference on Signals, Systems and Technologies in Media NCSSTM 2011
5. L. Jayanthi, Dr. K. Lakshmi; Information and Communication Technologies for Education and Empowerment National Conference on Signals, Systems and Technologies in Media NCSSTM 2011, pp. 46-51, 2011
6. G.Anupriya, Dr.K.Lakshmi, K.M.Arivuchelvan, Truth Finding with Conflicting Information on the Web, National Conference on Information And Communication Technology, 2010

## *A. Achievements*

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### **Ph.D. Guided**

Awarded : 2

Guiding: 6

### **MOOC Courses Completed**

- *Data Analysis with Python (2020), Conducted by IBM*
- *Introduction to Internet of Things (2019), conducted by NPTEL, SWAYAM*
- *Pedagogy for Online and Blended Teaching Learning Process (2018), Indian Institute of Technology, Bombay*
- *Foundation Program in ICT for Education (2017), Indian Institute of Technology, Bombay*
- *Introduction to Big Data (2015), University of California, San Diego*
- *Learning How to Learn: Powerful mental tools to help you master tough subjects University of California, San Diego*

### **Books Published**

- 1. Data Analysis using Python, ISBN:978-93-90245-48-2, year of publication 2020**
- 2. Entrepreneurship Development, ISBN: 978-81-946192-1-5, year of publication 2020**

### **Areas of Interest**

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- Artificial Intelligence
  - Computer Vision
  - Big Data Analytics
  - Machine Learning
  - Data Mining
  - Information Retrieval
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### *Contact Address*

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