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Academic Qualifications: M.E(CSE) , Ph.D , Post Doc (USA)

Professional / Teaching / Research Experience: 15 years

Area of Interest: Soft Computing, Data Mining, Evolutionary Computing, Internet of Things, Machine Learning, Deep Learning

Anna University Supervisor: 3040024, Information and Communication Engineering

Google Scholar Citations:

Citation Indices	**:**	113
h-Index	**:**	6
i 10-Index	**:**	3

Scopus:

Author ID	49361397000
h-Index	4

Patents filed:

- SYSTEM AND METHOD FOR CLASSIFYING SPAM E- MAIL UTILIZING HYBRID CLASSIFIER - TEMP/E- 1/40738/2018-CHE (Status: Published)

Funded Research Project:

- UGC Minor research Project titled "Multiple Classifier for E-mail Spam Classification in a Distributed Environment for reducing Network Traffic and improving the Network Performance" for an amount of Rs. 4,20,000/-
- AICTE-MODROBS –Rs. 2,00,000/- for Data Analytics for High Performance Data Analysis.
- "Design and Implementation of E-Learning System using Deep Learning Based on Audio-Video Speech Recognition for Hearing Impaired in Native Language" funded by DST - ICPS , for an amount of 70,00,000/-

Book Published: "Deep Learning using Python", ISBN: 9788126579914, Wiley India Pvt Ltd.

List of Publications:

National/International Journals:

1. Harish Kumar, N. G., Pooventhiran, G., & **Karthika Renuka, D**. "Landslide Type Prediction using Random Forest Classifier", International Journal of Computer Sciences and Engineering, Vol.-8, Issue-2, Feb 2020.

2. G. Poovandiran, **D.Karthika Renuka**, Dr.L.Ashok Kumar, Dr.S.Lovelyn Rose, M.Lavanya, M.C.Shunmuga priya, "Speech Diarization and Transcription using Deep Learning", National Journal of Technology, vol. 10, no. 2, pp. 75-83,2019.

3. Vinitha, V. S., & **Renuka, D. K.** (2020). MapReduce mRMR: Random Forests-Based Email Spam Classification in Distributed Environment. In *Data Management, Analytics and Innovation* (pp. 241-253). Springer, Singapore.

4. M.P.Geetha, **D.Karthika Renuka , "**Research on Recommendation Systems using Deep Learning Models", International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-4, November 2019.

5. P. Chitra, **D. Karthika Renuka**, K. Senathipathi, S. Deepika, and R. Geethamani, 2019, "A Survey on Load Balancing Algorithms for Cloud Environment", Journal of Computational and Theoretical Nanoscience, Vol. 16, 1–4, 2019.

6. Devi, C. A., **KarthikaRenuka, D**., & Soundarya, S, 2018, "A Survey Based on Human

Emotion Identification Using Machine Learning and Deep Learning", Journal of Computational and Theoretical Nanoscience, 15(5), 1662-1665.

7. **D.Karthika Renuka**, S.Lovelyn Rose, L.Ashok Kumar, 2017, "Design and implementation of e-learning system using deep learning based on audio- video speech recognition for hearing impaired", Perspectivas em Ciencia da Informacao, v.22,spl.2, p192., Nov./Dec. 2017 ISSN 1413-9936.

8. **Karthika Renuka, D** & Visalakshi, P, 2017, "Weighted-based multiple classifier and F-GSO algorithm for email spam classification", International Journal of Business Intelligence and Data Mining, 12(3), 274- 298.

9. **Karthika Renuka, D** & Visalakshi, P, 2017, "An Ensembled Classifier for Email Spam Classification in Hadoop Environment", Applied Mathematics & Information Sciences, Vol.11, No. 4, 1-6.

10. **Karthika Renuka, D** & Visalakshi, P , 2017, "Email Spam Classification in a Distributed Environment", Asian Journal of Research in Social Sciences and Humanities, Vol. 7, No. 1, pp. 950-961.(Annexure I).

11. **Karthika Renuka, D** & Visalakshi, P , 2016, "Enhanced E-Mail Spam Classification Using Hybrid FGSO-NB for Feature Selection", International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 2, pp. 1452- 1463.

12. **Karthika Renuka, D** & Visalakshi, P 2015, "A Hybrid ACO Based Feature Selection Method for Email Spam Classification", WSEAS Transactions on Computers, vol.14, pp.171-177. (Annexure II).

13. **Karthika Renuka, D** & Visalakshi, P 2014, "Firefly and BAYES Classifier for Email Spam Classification in a Distributed Environment", Australian Journal of Basic and Applied Sciences, vol. 8, no. 17, pp. 118-130. (Annexure-II).

14. **Karthika Renuka, D** & Visalakshi, P 2013, "Blending Firefly and Bayes Classifier for Email Spam Classification", International Review on Computers and Software (IRECOS), vol. 8, no. 9, pp. 2168-2177. (Annexure-II).

15. **Karthika Renuka, D** & Hamsapriya, T 2010, "Email classification for Spam Detection using Word Stemming", International Journal of Computer Applications, vol. 1, no. 5, pp. 58-60.

16. **Karthika Renuka, D** & Hamsapriya, T 2011, "Spam Classification based on Supervised Learning using Machine Learning Techniques", ICTACT Journal on Communication Technology, vol. 2, no. 4, pp. 457-462.

17. **Karthika Renuka, D** & Visalakshi, P 2014, "Latent Semantic Indexing Based SVM Model for Email Spam Classification", Journal of Scientific & Industrial Research, vol. 73, pp. 437-442 (Annexure I).

18. **Karthika Renuka, D** & Visalakshi, P 2014, "F-GSO algorithm and Naive Bayes Classifier for Email Spam Classification", National Journal of Technology, vol. 10, no. 2, pp. 75-83.

National/International Conferences:

1. **Karthika Renuka, D** & Hamsapriya, T 2011, "Spam Classification based on Supervised Learning using Machine Learning", International Conference on Process Automation, Control and Computing (PACC2011), November 20- 22.

2. **Karthika Renuka, D** & Visalakshi Palaniswami 2012, "Feature Selection Methods to Improve the Spam Classifier Performance", International Conference on Innovations in Computers, Information and Communication - ICICIC 2012, January 5-7.

3. **Karthika Renuka, D** & Visalakshi Palaniswami 2013, "Email Spam Classification using Hadoop", International Conference on Cloud and Big Data Analysis , February 8-9.

4. **Karthika Renuka, D** & Visalakshi Palaniswami 2013, "Email Spam Classification using optimization Techniques", International Conference on Cloud and Big Data Analysis , February 8-9.

5. **Karthika Renuka, D** & Visalakshi Palaniswami 2014, "Learning a Propagable Graph using Semisupervised Learning for Email Spam Classification", National Conference on Wireless Networks, Computing and Communication,PSGCT, February 7-8.

6. **Karthika Renuka, D** & Visalakshi Palaniswami 2014, "A Hybrid ACO Based Feature Selection Method for Email Spam Classification", National Conference on Wireless Networks, Computing and Communication, PSGCT, February 7-8.

7. **Karthika Renuka, D** & Visalakshi Palaniswami 2014, "E-mail Spam Classification in a Distributed Environment", International Conference on communication and Computer Networks of the Future, CSI chapter, PSGCT, March 15-16.

8. **Karthika Renuka, D** & Visalakshi Palaniswami 2014, "Text Classification using SVM classifier with Ant Colony Optimization Algorithm", International Conference on Communication and Computer Networks of the Future, CSI chapter , PSGCT, March 15-16.

9. **Karthika Renuka, D** & Visalakshi Palaniswami 2014, "Hybrid F-GSO algorithm and Naive Bayes Classifier for Email Spam Classification", National Conference on Innovations in Information and Communication Technology (NCIICT-2014), April 25-26.

10. **Karthika Renuka, D** & Visalakshi Palaniswami 2014, "A Hybrid Firefly-RS based

feature selection method for Email Spam Classification", National Conference on Innovations in Information and Communication Technology (NCIICT-2014), April 25-26.

11. **Karthika Renuka, D** & Visalakshi Palaniswami 2015, "Improving the Performance of E-Mail Spam Classification using F-GSO Algorithm for Feature Selection", International Conference on Advances in Applied Engineering and Technology, May 14-16.

12. V. Sri Vinitha, **Karthika Renuka, D** & A.Bharathi, 2018, "E-Mail Spam Classification using Random Forest in Distributed Environment, International Conference On Cyber Physical Systems For Next Generation Computing (CPSNGC-2018), March 1-3.

13. C.Akalya Devi, S.Soundarya & **D.KarthikaRenuka**, 2018, "A Survey Based On Human Emotion Identification Using Machine Learning And Deep Learning", International Conference On Cyber Physical Systems For Next Generation Computing (CPSNGC-2018), March 1-3.

14. C.Akalya Devi, **D.KarthikaRenuka**, 2019, "FACIAL EXPRESSION BASED EMOTION RECOGNITION USING DEEP LEARNING", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications (AISGSC 2019),

15. V. Sri Vinitha , **Dr.D.Karthika Renuka**, 2019, "MapReduce MRME RANDOM FORESTS BASED EMAIL SPAM CLASSIFICATION IN DISTRIBUTED ENVIRONMENT", International Conference on Data Management, Analytics & Innovation 2019, Malaysia.

16. V. Sri Vinitha , **Dr.D.Karthika Renuka**, 2019, "FEATURE SELECTION TECHNIQUES FOR EMAIL SPAM CLASSIFICATION A SURVEY", International Conference on Artificial Intelligence, Smart Grid and Smart City Applications (AISGSC 2019).

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