Rupesh Kumar Dewang

PH.D. SUPERVISED

Ph.D. Completed/Submitted

2. KamlaKant Laxman Bawankule, *"Straggler Mitigation Approaches for Heterogeneous Hadoop Cluster"*, MNNIT Allahabad, 2022. **(Awarded) (SCIE:6, Connf:1)**

1. Arvind Mewada, *"Unveiling the Review Spam: From Dataset Labelling to Group Spammer Detection and Review Aspect Analysis."*, MNNIT Allahabad, July-2023. **(Submitted)(SCIE:7, Conf:2)**

Ph.D. OnGoing

2. Ayshwarya Jaiswal, *"Insider Threat Detection"*, MNNIT Allahabad, 2021. **(Ongoing) (SCIE:3)**

1. Atul Kumar, *"Machine Learning in IOT"*, MNNIT Allahabad, 2021. **(Ongoing)(SCIE:1)**

PUBLICATIONS

Patents

1. **Title of the invention :"SYSTEM AND METHOD FOR REAL-TIME ASSESSMENT AND GUIDANCE ON EXERCISE POSTURE",**, Name of Inventors: Dr. Shikha Agrawal, Dr. Jitendra Agrawal, Dr.Rupesh Kumar Dewang, Mr. Suraj Prakash Narayan and Ms. Swati Jain, Application No.201921035264 A, Date of filing of Application :02/09/2019, Publication Date : 11/10/2019 (Review Submitted).

International Journals (Accepted/Published)

15. Arvind Mewada and Rupesh Kumar Dewang, "NRWalk2Vec-HIN: spammer group detection based on heterogeneous information network embedding over social media.", The Journal of Supercomputing, 2023 **(SCIE Journal, IF: 3.3)**

14. Arvind Mewada and Rupesh Kumar Dewang, "SA-ASBA: a hybrid model for aspect-based sentiment analysis using synthetic attention in pre-trained language BERT model with extreme gradient boosting.", The Journal of Supercomputing (2023):1-36, **(SCIE Journal, IF: 3.3)**

13. Arvind Mewada and Rupesh Kumar Dewang, "A comprehensive survey of various methods in opinion spam detection", Multimedia Tools and Applications, 1-41, (2023) **(SCIE Journal, IF: 3.6)**

12. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "Historical data based approach to mitigate stragglers from the Reduce phase of MapReduce in a heterogeneous Hadoop cluster", Cluster Computing, **(SCIE, IF=4.4)**

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10. Bhaswati Barman, Rupesh Kumar Dewang, Arvind Mewada, "Facial Recognition using Grey Wolf Optimization", Materials Today: Proceedings, 202, **(Scopus index).**

9. Arvind Mewada, Rupesh Kumar Dewang,"Research on False Review Detection Methods: A state-of-the-art review",, Journal of King Saud University-Computer and Information Sciences, **(SCIE, IF=13.473)**

8. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh,"Early straggler tasks detection by Recurrent Neural Network in a heterogeneous environment",, Applied Intelligence, **(SCI, IF=5.3)**

7. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh,"Performance Analysis of Hadoop YARN Job Schedulers in a Multi-Tenant Environment on HiBench Benchmark Suite", International Journal of Distributed Systems and Technologies, 2021 **(Scopus index)**

6. Swati Jain, Suraj Prakash Narayan, Nalini Meena, Rupesh Kumar Dewang, Utkarsh Bhartiya, and Varun Kumar, Arvind Mewada,"Event Detection through Lexical Chain Based Semantic Similarity Algorithm", Materials Science and Engineering, (2021) **(Scopus index)**

5. Arvind Mewada, Rupesh Kumar Dewang,"Deceptive Reviewer Detection by Analyzing Web Data using HMM and Similarity Measures", Materials Today: Proceedings, 2021 **(Scopus index)**

4. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh,"Historical Data-Based Approach for Straggler Avoidance From a Heterogeneous Hadoop Cluster", Journal of Ambient Intelligence & Humanized Computing, Springer Nature on 2021 **(SCIE,IF=4.9)**

3. RK Kushwaha, P Karuppanan, RK Dewang,"Design of a SIW On-chip Antenna using 0.18-µm CMOS Process Technology at 0.4 THz", International Journal for Light and Electron Optics, 2020, 1-15. **SCIE (SCIE,IF=3.1)**

2. Rupesh Kumar Dewang and Anil Kumar Singh,"State-of- Art Approaches for Review Spammer Detection: A Survey", Journal of Intelligent Information Systems, 2017, 1-34 **(SCIE,IF=3.4)**

1. Rupesh Kumar Dewang and Anil Kumar Singh, "Spam Review Detection through Lexical Chain Based Semantic Similarity Algorithm (LCBSS) for Negative Reviews", International Journal of Engineering and Technology, Vol 8 No.6, Dec 2016-Jan 2017 **(Scopus index)**

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12. Arvind Mewada and Rupesh Kumar Dewang, "ConvRoBERTa: Fake Reviews Detection based on Sequential and Non-Sequential Weighted Features in Multimodal Fusion,", Knowledge-based Systems Journal, 2023 (Under Review)**(SCIE Journal, IF: 8.13)**

11. Arvind Mewada and Rupesh Kumar Dewang, "Communal Influence Propagation Method to Classify Malicious Profile and Community over Social Media,", Multimedia Tools and Applications, 2022 **(SCIE Journal, IF: 2.577)**(Major Revision Submitted on dated 05-06-2023)

10. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "Predictive Tasks Scheduling in a Heterogeneous Hadoop Cluster for Straggler Avoidance by Deep Reinforcement Learning", Applied Intelligence, 2023 **(SCIE Journal, IF: 5.3)**(Under Review)

9. Rupesh Kumar Dewang, and Anil Kumar Singh, "Positive and Negative Review Groups Spammer Detection Using Readability Model", Multimedia Tools and Applications, 2023 **(SCIE Journal, IF: 3.6)**(Under Review)

8. Rupesh Kumar Dewang, and Anil Kumar Singh, "Review Spam Detection Using TFIRFFVC and SLCFVC Feature Vector Algorithms", Journal of Intelligent Information Systems, ((SCIE Index) 2023**(SCIE Journal, IF:3.4)**(Under Review)

7. Rupesh Kumar Dewang, and Anil Kumar Singh, "Feature Reduction and Review Spam Detection Using Neural Network", International Journal of Mathematical, Engineering and Management Sciences, **(Scopus index)** 2023(Under Review)

6. Anubhav Kumar and Rupesh Kumar Dewang, "Analysis of Various Methods for Face Manipulation and Deepfake Detection", International Journal of Systems Assurance Engineering and Management, **(Scopus index)** 2023(Under Review)

5. Ayshwarya Jaiswal, Rupesh Kumar Dewang and Pragya Dwivedi, "Machine Learning Approaches to Detect, Prevent and Mitigate Malicious Insider Threats: State-of-the-Art Review", International Journal of Information Security, **(SCIE Journal, IF:3.2)** (Review Completed)

4. Ayshwarya Jaiswal, Rupesh Kumar Dewang and Pragya Dwivedi, "Performance Analysis of Chi-Square Integration with Ensemble and Neural Network based Intrusion Detection System : A Comparative Study", International Journal of Data Science and Analytics, **(SCIE Journal, IF:2.6)** (Review Completed)

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1. Atul kumar, Rupesh Kumar Dewang, "Design and Implementation of smart gas cylinder trolley with gas leakage detection", Journal of Internet of Things, **(SCIE Journal, IF:5.9)** Review Completed.

Book Chapters

5. Dasangam Venkat Nikhil, Rupesh Kumar Dewang, Buvaneish Sundar, Ayush Agrawal, Ananta Narayan Shrestha, Akash Tiwari, Arvind Mewada,"Predicting Native Language with Machine Learning: An Automated Approach", Artificial Intelligence Techniques in Power Systems Operations and Analysis, (2023): 195-206.

4. Dinesh Singh, Ashish Kumar Maurya, Rupesh Kumar Dewang, Niharika Keshari,"A review on Internet of Multimedia Things (IoMT) routing protocols and quality of service", Internet of Multimedia Things (IoMT), (2022): 1-29.

3. Tavishi Jain, Bhavya Singh, Rupesh Kumar Dewang (2022), "Event Detection in Live Twitter Streams Using Tf-Idf and Clustering Algorithms", Data, Engineering and Applications., Lecture Notes in Electrical Engineering, vol 907. Springer, Singapore https://doi.org/10.1007/978-981-19-4687-5_36

2. Tavishi Jain, Bhavya Singh, Rupesh Kumar Dewang,"Event Detection and Summarisation of Live Tweets Using SCAN Algorithms", Data, Engineering and Applications., Lecture Notes in Electrical Engineering, vol 907. Springer, Singapore, (2022) https://doi.org/10.1007/978-981-19-4687-5_37

1. Saloni Juneja, Shubham Goyallal, Sonali Agarwal, Saransh Agrawal, Rohit Kumar, Rupesh Dewang, Arvind Mewada,"Spam Review Detection Using Okapi Relevance Method for Negative Reviews", Data, Engineering and Applications., Lecture Notes in Electrical Engineering, vol 907 Springer, Singapore. https://doi.org/10.1007/978-981-19-4687-5_38

International Conferences

20. Arvind Mewada, Rupesh Kumar Dewang,"SentiBERT: A Novel Approach for Fake Review Detection Incorporating Sentiment Features with Contextual Features", Fiteenth International Conference on Contemporary Computing (IC3), ACM ICPS, ISBN Number: 979-8-4007-0022-4 2023

19. Harshit Sinha, Manvendra Singh, Mayank Kumar and Neel Jaideep Pand, Rupesh Kumar Dewang,"Comparison Based Study of UnderWater Image Enhancement Models", 21st OITS International Conference on Information Technology (OCIT-2023), Communicated

18. Rupesh Kumar Dewang, Nishant Tamrakar, Arvind Mewada, "Sentence Level Sentiment Classification using SentiWordNet and Long-Short Term Memory Model", IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON), Submitted

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16. Juneja, Saloni, Shubham Goyallal, Sonali Agarwal, Saransh Agrawal, Rohit Kumar, Rupesh Dewang, and Arvind Mewada, "Spam Review Detection Using Okapi Relevance Method for Negative Reviews.", In Data, Engineering and Applications: Select Proceedings of IDEA 2021, pp. 493-504. Singapore: Springer Nature Singapore, 2022.

15. Tavishi Jain, Bhavya Singh, and Rupesh Kumar Dewang "Event Detection and Summarisation of Live Tweets Using SCAN Algorithms.", In Data, Engineering and Applications: Select Proceedings of IDEA 2021, pp. 481-492. Singapore: Springer Nature Singapore, 2022

14. Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, Rupesh Kumar Dewang, and Arvind Mewada,"Biased Online Media Analysis Using Machine Learning.", In Proceedings of International Conference on Computational Intelligence: ICCI 2021, pp. 99-108. Singapore: Springer Nature Singapore, 2022.

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10. Aditya Raven, Rupesh Kumar Dewang, Arvind Mewada, "A Machine Learning-Based Privacy-Preserving Model for COVID-19 Patient using Differential Privacy", 19th OITS International Conference on Information Technology (OCIT)-2021, Indexed in Scopus

9. Shrey Pandey, Yash Srivastava, Yukta Meena and Rupesh Kumar Dewang, CLOTON: A GAN based approach for Clothing Try-On, 8th International Conference on Signal Processing and Integrated Networks, (SPIN-2021).

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5. Ahmed Sabeeh and Rupesh Kumar Dewang, "Compassion, Bifurcation and Survey of Aspect Based Sentiment Analysis", 2nd International Conference on Advanced Informatics for Computing Research (ICAICR-2018), Springer CCIS series, index in Scopus, 2018

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3. Alok Kumar, Dinesh Singh, Jay Ram Singh, Rupesh Kumar Dewang, "Historical Feedback based Misbehaviour Detection (HFMD) Algorithm,", 2016 2nd International Conference on Computational Intelligence and Networks (CINE), Bhubaneswar, 2016, Bhubaneswar, Odisha, India

2. Jay Ram Singh, Dinesh Singh, Alok Kumar, Rupesh Kumar Dewang, "A Single Hop Based Fast Certificate Revocation Protocol in VANET,", 2016 2nd International Conference on Computational Intelligence and Networks (CINE), Bhubaneswar, 2016, Odisha, India

1. Rupesh Kumar Dewang,, and A. K. Singh, "Identification of Fake Reviews Using New Set of Lexical and Syntactic Features.", Proceedings of the Sixth International Conference on Computer and Communication Technology, ACM, 2015

LECTURES ORGANIZED/ LABS ESTABLISHED

1. Machine Learning and Artificial Intelligence Lab