

PUBLICATIONS

1. Research Papers in SCI/SCIE/ESCI/ SCOPUS Indexed Journals

(Published/Accepted):44

1. Avaneesh Kumar Yadav, **Ranvijay**, Rama Shankar Yadav and Manoj Jain, "Efficient Multi-Document Cuckoo Search Optimization for Extractive Text Summarization", **ITTE Technical Review, Taylor & Francis, April 2025. (SCIE Indexed, IF: 2.5, Quartiles: Q2)**
2. Verma, Neetu, **Ranvijay**, and Dharmendra Kumar Yadav, "A comprehensive review on step-based skin cancer detection using machine learning and deep learning methods", **Archives of Computational Methods in Engineering**, Springer, March 2025. (SCIE Indexed, IF: 9.7, Quartiles: Q1).
3. Ravi Prakash and **Ranvijay**, "Improved Environmental Adaptation Method for Scheduling Workflows in Cloud", **International Journal on Recent and Innovation Trends in Computing and Communication**, December 2024. (SCOPUS Indexed, IF: 2.05, Quartiles: Q3)
4. Verma, Neetu, **Ranvijay**, and Dharmendra Kumar Yadav. "Hybrid of Deep Feature Extraction and Machine Learning Ensembles for Imbalanced Skin Cancer Datasets." *Experimental Dermatology* December 2024): e70020, Wiley.(SCIE Indexed, IF: 3.5, Quartiles: Q1)
5. Rajit Ram Yadava and **Ranvijay**, "Green Optimization with Load balancing in Wireless Sensor using Elephant Herding optimization", *International Journal of Computer Network and Information Security (IJCNIS)*, 2024. (SCOPUS Indexed, IF: 2.05, Quartiles: Q3).
6. RakhiYadav, Mainejar Yadav, **Ranvijay**, Yashwant Sawle, Wattana Viriyasitavat, and Achyut Shankar,"AI Techniques in Detection of NTLs: A Comprehensive Review,"**Archives of Computational Methods in Engineering**, Springer, 2024. (SCIE Indexed, IF: 9.7, Quartiles: Q1)
7. Ravi Prakash and **Ranvijay**, "Multi-operator based improved environmental adaptation method for application in real-world optimization problems,"**International Journal of Information Technology**, Springer, 2023. (ESCI Indexed)
8. Shailendra Pushkinand **Ranvijay**"A Novel Hypergraph Clustered Gray Relational Analysis HGPSO Algorithm for Data Aggregation in WSN,"**Cybernetics and Information Technologies**, 2023. (ESCI Indexed, IF: 1.2, Quartiles: Q3)
9. Bansal, Palak, and Mainejar Yadav, and **Ranvijay**, "Automatic detection of plant leaf diseases using deep learning." **International Journal of Computing and Digital Systems**, Elsevier, 2023.
10. Avaneesh Kumar Yadav, **Ranvijay**, Rama Shankar Yadav, Ashish Kumar Maurya, "Graph-based Extractive Text Summarization based on Single Document," *Multimedia Tools and Applications*, Springer, 2023. (SCIE Indexed,IF: 3.6, Quartiles: Q1).
11. Avaneesh Kumar Yadav, **Ranvijay**, Rama Shankar Yadav, Ashish Kumar Maurya, "State-of-the-art approach to extractive text summarization: a comprehensive review," *Multimedia Tools and Applications*, Springer, pp. 1-63, 2023. (SCIE Indexed,IF: 3.6, Quartiles: Q1).

12. Singh, Dinesh, Ashish Kumar Maurya, **Ranvijay**, and Rama Shankar Yadav. "CRLMDA: CRL minimisation and distribution algorithm in cluster-based VANETs." *International Journal of Communication Networks and Distributed Systems* 29, no. 3 (2023): 239-267. (ESCI Indexed, IF: 1.3, Quartiles: Q3).
13. Shailendra Pushkin, **Ranvijay**, "Load Balanced WSN Data Aggregation by Improved Hypergraph and novel IHGPSO", *International Journal of Computer Network and Information Security (IJCNIS)*, 2023. (SCOPUS Indexed, IF: 2.05, Quartiles: Q3). [Accepted]
14. Dinesh Singh, Ashish Kumar Maurya, **Ranvijay**, and Rama Shankar Yadav, "A trust-based clustering approach to form stable clusters in vehicular ad hoc networks," *Journal of Ambient Intelligence and Humanized Computing*, Springer, pp. 1-20, 2022. (SCIE Indexed, IF: 7.104, Quartiles: Q1).
15. Mainejar Yadav, **Ranvijay**, "Essential secret image sharing approach with same size of meaningful shares", *International Journal of Multimedia Tools and Applications*, Published: 19 February 2021.(SCIE Indexed,IF: 3.6, Quartiles: Q1).
16. Avaneesh Kumar Yadav, Ashish Kumar Maurya, **Ranvijay** and Rama Shankar Yadav, "Extractive Text Summarization Using Recent Approaches: A Survey" *Journal of Ingénierie des Systèmes d'Information*, Vol. 26 Issue 1, p109-121. 13p, Feb2021. (SCOPUS Indexed, IF: 0.244 Quartiles: Q3).
17. Dinesh Singh, **Ranvijay** and Rama Shankar Yadav, "IBMDA: Information based misbehaviour detection algorithm for VANET", *Journal of High-Speed Networks*, Volume 26, Year 2020, Pages 185-207. (SCOPUS Indexed, IF: 1.06 Quartiles: Q3).
18. Rajit Ram Yadava and **Ranvijay**, "CATM: Congestion aware trust model for wireless sensor networks", *Journal of Discrete Mathematical Sciences and Cryptography* 24(5):1475-1485, 2021. (SCOPUS Indexed, IF: 0.45 Quartiles: Q3)
19. Tribhuvan Singh, **Ranvijay**, Krishn Kumar Mishra, "A variant of EAM to uncover community structure in complex networks," *International Journal of Bio-Inspired Computation*, Volume 16, Year 2020, Pages 102-110.(SCI Indexed,IF: 3.5, Quartiles: Q2).
20. Sanjeev Kumar, Suneeta Agarwal and **Ranvijay** "WBTC: a new approach for efficient storage of genomic data", *International Journal of Information Technology (Singapore)*, Volume 12, Year 2020, Pages 915-921. (SCOPUS Indexed,IF: 3.07, Quartiles: Q3).
21. Mainejar Yadav, **Ranvijay**, "Cheating prevention and detection technique in visual secret sharing," *Ingenierie des Systemes d'Information*, Volume 25, Year 2020, Pages 453-460. (SCOPUS Indexed, IF: 0.244 Quartiles: Q3).
22. Sanjeev Kumar, Suneeta Agarwal and **Ranvijay**, "Burrows wheeler transform and wavelet tree-based retrieval of genome sequence in an indexed genome database", *Recent Advances in Computer Science and Communications*, Volume 13, Year 2020, Pages 1213-1220. (SCOPUS Indexed, IF: 0.85, Quartiles: Q4)
23. Smriti Agrawal, Rama Shankar Yadav, **Ranvijay**, "Transient fault tolerance patterns for real time systems with arbitrary deadline", *International Journal of Scientific and Technology Research*, Volume 9, Year 2020, Pages 6832-6848. (SCOPUS Indexed, IF: 0.85, Quartiles: Q3).

24. Sanjeev Kumar, Suneeta Agarwal and **Ranvijay**, “WBFQC: A New Approach for Compressing Next-Generation sequencing data splitting into homogeneous streams”, *Journal of Bioinformatics and Computational Biology-World Scientific*. vol. 16, issue no. 5, 2018. (SCI Indexed, F: 1.0, Quartiles: Q3)
25. Sanjeev Kumar, Suneeta Agarwal and **Ranvijay**, “Fast and Memory Efficient Approach for Mapping NGS Reads to a Reference Genome”, *Journal of Bioinformatics and Computational Biology-World Scientific*, 2019 Apr; 17(2), p.p. 1-19. (SCI Indexed, IF: 1.0, Quartiles: Q3).
26. Vinod Kumar K., **Ranvijay**, “Cache optimization energy aware scheduling in cloud environment” *International Journal of Advances in Applied Sciences (IJAAS)*” Vol.8, No. 3, September 2019, pp. 184, (SCOPUS Indexed).
27. Sanjeev Kumar, Suneeta Agarwal and **Ranvijay**, “An efficient tool for searching maximal and super maximal repeats in Large DNA sequences via Induced-Enhanced Suffix Array”, *Recent Patents on Computer Science-Bentham Science*. vol. 12, issue no. 1, 2019, p.p: 128-134 (SCOPUS Indexed, Quartiles: Q4).
28. Sanjeev Kumar, Suneeta Agarwal and **Ranvijay**, “Burrows Wheeler Transform and Wavelet Tree Based Retrieval of Genome Sequence in an Indexed Genome Database”, *Recent Patents on Computer Science*, Vol. 12, issue no 4, 2019 p.p.1-8 (SCOPUS Indexed, Quartiles: Q4).
29. Mainejar Yadav, **Ranvijay**,” Verifiable Essential Secret Image Sharing with Multiple Decryption. *International Journal of Recent Technology and Engineering*, 2019. (SCOPUS Indexed, Quartiles: Q4).
30. Mainejar Yadav, **Ranvijay**,” Collusion attacks in XOR based RG-VSS. in *International Journal of Innovative Technology and Exploring Engineering*, 2019. (SCOPUS Indexed, Quartiles: Q4).
31. Tribhuvan Singh, **Ranvijay**, Krishn Kumar Mishra, “Multi-objective Environmental Adaptation Method for Solving Environmental/Economic Dispatch Problem”, in “*Evolutionary Intelligence*”, Volume 12, April 2019, Pages 305-319, Springer. (SCOPUS Indexed, Quartiles: Q2).
32. Sarang Shrivastava , Priyanja Singh and **Ranvijay**, “Impostor Detection Through Chat Analysis” *Procedia Computer Science*, December 2016. Publisher: Elsevier. (SCOPUS Indexed).
33. Mainejar Yadav, **Ranvijay**,” A distortion free multi-secret image sharing with efficient shadow communication overhead” in *Journal of Information and Optimization Sciences*, Taylor & Francis Publication 2017. (SCOPUS Indexed).
34. Singh, Dinesh, **Ranvijay**, and Rama Shankar Yadav. "A state-of-art approach to misbehaviour detection and revocation in VANET: survey." *International Journal of Ad Hoc and Ubiquitous Computing* 28.2 (2018): 77-93. (SCI Indexed, IF: 0.7, Quartiles: Q3)
35. Mainejar Yadav, **Ranvijay**, “Emerging Trends in Visual Secret Sharing” in *International Journal of Engineering Technology*, 2018. (SCOPUS Indexed).

36. Vinod Kumar K., **Ranvijay**, Enhanced energy aware scheduling in multicore processors. *Journal of Intelligent & Fuzzy Systems*, vol. 35, no. 2, pp. 1375-1385, 2018. (SCIE Indexed, Quartiles: Q2)
37. Sanjeev Kumar, Suneeta Agarwal and **Ranvijay**, "WBMFC: Efficient and Secure Storage of Genomic Data", *Pertanika Journal of Science & Technology*. vol. 26, issue no. 4, 1913 - 1925, 2018. (ESCI Indexed, Quartiles: Q4).
38. Tribhuvan Singh, **Ranvijay** Singh, Krishn Kumar Mishra, "Software Cost Estimation Using Environmental Adaptation Method", in "*Procedia Computer Science*", Volume 143, 2018, Pages 325-332. (SCOPUS Indexed).
39. Yadav, M., &**Ranvijay**. (2018). A distortion free multi-secret image sharing with efficient shadow communication overhead. *Journal of Information and Optimization Sciences*, 39(1), 143-156. (ESCI (Web of Science))
40. Sarang Shrivastava, Priyanja Singh and **Ranvijay** "Impostor Detection Through Chat Analysis" *Procedia Computer Science*. December 2016. Publisher: Elsevier. (SCOPUS Indexed).
41. **Ranvijay**, Yadav, R. S., & Agrawal, S. (2010). Enhanced aperiodic responsiveness by multi budget bandwidth preserving server. *ACM SIGBED Review*, 7(2), 1-8. (IF=1.93, Quartiles: Q1)
42. Smriti Agrawal, Rama Shankar Yadav, **Ranvijay**, "A Speed Fine Tuning Techniques for System Energy Minimization of Weakly Hard Real-Time Systems", in *International Journal of Computer and Application*, ACTA Press Publication, Canada, vol. 32, Issue 2. (SCOPUS Indexed).
43. Sarsij Tripathi, Rama Shankar Yadav, **Ranvijay**, "Resource Management in Real Time Distributed System with Security Constraints: A Review", *Accepted for publication in International Journal of Distributed System and technologies (IJDST)*, IGI publications. ISSN 1947-3532, 2010. (Scopus Indexed)
44. Agrawal, Smriti, Rama Shankar Yadav, and **Ranvijay**, "A Pre-emption Control Approach for Energy Aware Fault Tolerant Real Time System." *International Journal of Recent Trends in Engineering* 1, no. 1 (2009): 381.

2. Research Papers in International Conferences: 15

1. Shubham Dixit, Suhail Shabaz, Yash Mittal, Sambit Kumar Behera, Rishabh Doneriya, Ramniwas Lodhi, and **Ranvijay**, "Video Summarization using Grasshopper Optimization Algorithm", In **12th International Conference on Recent Challenges in Engineering and Technology, ICR CET-23**. [Accepted]
2. Harshit Garg, Mradul Tiwari, Mehul Rawal, Kaustubh Gupta, **Ranvijay**, and Mainejar Yadav," Personality Based Friends Recommendation System for Social Networks," *International Conference on Security, Privacy and Data Analytics (ISPDA-2022)*, 13th to 15th December, 2022. [Accepted]
3. Vijay Prakash Dwivedi, Deepak Kumar Singh, Saurav Jha and **Ranvijay** "Gender Classification of Blog Authors: With Feature Engineering and Deep Learning using LSTM Networks" *9th IEEE International Conference on Advanced Computing (ICoAC)*, 2017.
4. Apoorva Dobhal, **Ranvijay**, **Improved** Real-Time Energy Aware Parallel Task Scheduling in a Cluster, in the *3rd IEEE International Conference on Computing for*

Sustainable Global Development (INDIACom), 16-18 March 2016. ISBN: 978-9-3805-4421-2

5. Dinesh Singh, **Ranvijay**, R. S. Yadav, A New Weighted Clustering Algorithm to form Stable Cluster in VANET, in *ICTCS '16 Second International Conference on Information and Communication Technology for Competitive Strategies*, Udaipur, India — March 04 - 05, 2016. ISBN: 978-1-4503-3962-9
6. Shreya Agrawal, Rahul Verma, **Ranvijay**, Lip Reading Techniques: A Survey in *Third IEEE International Symposium on Computer Vision and the Internet (VisionNet'16)*. September 21-24, 2016. ISBN: 978-1-5090-2399-8.
7. Mainejar Yadav, **Ranvijay**, "Efficient Multiple Secret Sharing via Cellular Automata Rule 30" in *5th IEEE international Conference on Communication and Signal Processing (ICCSP-2016)*.
8. Nikesh Singh Tanver, Mainejar Yadav, **Ranvijay**, "Bitwise Encoded Visual Secret Sharing Scheme for Gray Scale Image" in *6th IEEE International Conference on Communication Systems and Network Technologies (CSNT-2016)*, 2016.
9. Surendra Singh and **Ranvijay**, Improve real-time packet scheduling algorithm with security constraint, in *international conference IEEE INDICON 2014*, IEEE Digital Library, PUNE, INDIA 11-13 Dec. 2014. 10.1109/INDICON.2014.7030461, ISBN: 978-1-4799-5364-6.
10. **Ranvijay**, Rama Shankar Yadav, Smriti Agrawal "Online Speed Fine Tuning Technique for Energy Minimization of Mixed Task Set", in *INDICON, 2009*, DA-IICT Ahmedabad, 1820 December, 2009 PP. 589- 592.
11. **Ranvijay**, Rama Shankar Yadav, Smriti Agrawal "Enhanced Aperiodic Responsiveness by Preemption Control" in *2009 International Conference on Advances in Computing, Control, and Telecommunication Technologies*, IEEE, 2009. Trivandrum, Kerala, India. December 28-29, 2009.
12. **Ranvijay**, Rama Shankar Yadav, Smriti Agrawal "Efficient Energy Constrained Scheduling approach for Dynamic Real Time System. in *IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC 2010)*, JUIT, Solan, Himachal Pradesh, India. October 28-30, 2010. PP 284 – 289.
13. **Ranvijay**, Rama Shankar Yadav, arvind Dagur and Smriti Agrawal "Energy management for energy harvesting real time system with dynamic voltage scaling" in *International Conference on VLSI 2011*, July 15- July 17 2011. Accepted for Publication for Springer (LNCS) in Communications in Computer and Information Science (CCIS) Series.
14. **Ranvijay**, Rama Shankar Yadav and Smriti Agrawal "A Survey on Energy Aware Processor Design Techniques in Real-Time Systems", in *International Conference on Soft computing and Intelligent Systems*, Jabalpur Engineering College, Jabalpur, India, 27-29 December 2007.
15. Smriti Agrawal, Rama Shankar Yadav, **Ranvijay**, "System Level Energy Minimization by Speed Fine Tuning Technique", in *International Conference on Embedded Systems, Mobile Communication and Computing (ICEMC2)*, 11- 14 August, 2008, Infosys, Mysore, India, Published by Macmillan, ISBN:023-063- 618-7.

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17. Smriti Agrawal, Rama Shankar Yadav, **Ranvijay** “A Survey on Real-Time Fault Tolerant Systems”, in *National Conference on Architecturing Future IT Systems (NCAFIS-2008)*, Devi Ahilya University Indore, 17- 18, October 2008, PP. 168-176.
18. Abhay Singh, Rama Shankar Yadav, **Ranvijay**Enhanced Energy Minimization (M, K) Guaranteed Real-Time Systems”, in the *international conference on emerging technology and application in Engineering, Technology and Science*, Gujrat (ICETAETS-2008).

3. Book Chapters: 12

1. Verma, Neetu, **Ranvijay**, and Dharmendra Kumar Yadav, “XcUNet for Skin Lesion Segmentation Followed by Clustering Based Post-processing”, in book *Advanced Network Technologies and Intelligent Computing*, **Publisher Springer Cham, March 2025**.
2. Shashank Pandey, Sakshi Dwivedi, Vijay Bhan Singh, Neetu Verma, and **Ranvijay**, “Video Summarization is using Firefly Algorithm”, In book *Artificial Intelligence and Speech Technology*, **Publisher Springer Cham, November 2024**.
3. Divyanshi Singh, Neetu Verma, and **Ranvijay**, “Enhancing Skin Cancer Classification with Ensemble Models,” In book *Advanced Network Technologies and Intelligent Computing*, **Publisher Springer Cham, August 2024**.
4. Vinod Kumar K., **Ranvijay**, “Performance and energy balanced scheduling algorithm for multicore architectures”, In book *Artificial Intelligence and Information Technologies*, Publisher **CRC Press, London, June 2024**
5. Abhiraj, Amit Rathor, Avaneesh Kumar Yadav and **Ranvijay**, “Earthquake Magnitude and Depth Prediction based on Hybrid GRU-BiLSTM Model” in book *Data Intelligence and Cognitive Informatics*, **Publisher Springer Singapore, January 2024**.
6. Gupta, Priyanka, and **Ranvijay**, "Enhanced Energy-Aware Fault Tolerance Technique for Real-Time Task on Heterogeneous Multicore System," In *International Conference on VLSI, Communication and Signal processing*, pp. 745-762. **Singapore: Springer Nature** Singapore, 2022.
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8. **Ranvijay**, Yadav RS, Kumar A, Agrawal S. Energy management for energy harvesting real time system with dynamic voltage scaling. In *International Conference on Web and Semantic Technology* 2011 Jul 15 (pp. 536-548). Berlin, Heidelberg: Springer Berlin Heidelberg. [ISBN: 978-3-642-22542-0].
9. Keshwani K, Agarwal P, Kumar D, **Ranvijay**. Prediction of market movement of Gold, Silver and Crude Oil using sentiment analysis. In *Advances in Computer and*

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10. Shashni N, **Ranvijay**, Yadav M. Cryptanalysis on digital image watermarking based on feature extraction and visual cryptography. InProgress in *Advanced Computing and Intelligent Engineering: Proceedings of ICACIE 2017*, Volume 1 2019 (pp. 425-435). Springer Singapore.
 11. Sachan VS, Yadav M, **Ranvijay**. Enhanced XOR-Based Progressive Visual Secret Sharing Using Multiple Decryptions. In *Advances in VLSI, Communication, and Signal Processing: Select Proceedings of VCAS 2018*, 2020 (pp. 949-962). Springer Singapore. [ISBN: 978-981-32-9775-3]
 12. Singh T, Mishra KK, **Ranvijay**. Data clustering using environmental adaptation method. In Hybrid Intelligent Systems: *19th International Conference on Hybrid Intelligent Systems (HIS 2019) held in Bhopal*, India, December 10-12, 2019 19 2021 (pp. 156-164). Springer International Publishing.