

PUBLICATIONS

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

(Published/Accepted):39

1. 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)
2. RaviPrakash 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)
3. ShailendraPushkinand **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)
4. 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.
5. 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).
6. 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).
7. 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).
8. 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]
9. 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).
10. 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)**, 2022. (SCOPUS Indexed, IF: 2.05, Quartiles: Q3).[Accepted]
11. 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).

12. 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).
13. 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).
14. 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)
15. 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).
16. 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).
17. 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).
18. 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)
19. 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).
20. 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, IF: 1.0, Quartiles: Q3)
21. 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).
22. 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).
23. 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).

24. Mainekar Yadav, **Ranvijay**,” Verifiable Essential Secret Image Sharing with Multiple Decryption. *International Journal of Recent Technology and Engineering*,2019. (SCOPUS Indexed, Quartiles: Q4).
25. Mainekar Yadav, **Ranvijay**,” Collusion attacks in XOR based RG-VSS. in *International Journal of Innovative Technology and Exploring Engineering*, 2019. (SCOPUS Indexed, Quartiles: Q4).
26. 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).
27. Sarang Shrivastava , Priyanja Singh and **Ranvijay**, “Impostor Detection Through Chat Analysis” *Procedia Computer Science*, December 2016. Publisher: Elsevier. (SCOPUS Indexed).
28. Mainekar 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).
29. 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)
30. Mainekar Yadav, **Ranvijay**, “Emerging Trends in Visual Secret Sharing” in *International Journal of Engineering Technology*, 2018. (SCOPUS Indexed).
31. Vinod Kumar K., **Ranvijay**, Enhanced energy aware scheduling in multicore processors. *Journal of Intelligent & Fuzzy Systems*, vol. 35, no. 2, pp. 1375-1385, 2018. (SCOPUS Indexed, Quartiles: Q2)
32. 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).
33. 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).
34. 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))
35. Sarang Shrivastava, Priyanja Singh and **Ranvijay** “Impostor Detection Through Chat Analysis” *Procedia Computer Science*. December 2016. Publisher: Elsevier. (SCOPUS Indexed).
36. **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)
37. 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).

38. 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)
39. 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: 20

1. Shashank Pandey, Sakshi Dwivedi, Vijay Bhan Singh, Neetu Verma, and **Ranvijay**, "Video Summarization using Firefly Algorithm", In **5th International Conference on Artificial Intelligence and Speech Technology, AIST 2023**. [Accepted]
2. 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]
3. Abhiraj, Amit Rathor, Avaneesh Kumar Yadav and **Ranvijay**, "Earthquake Magnitude and Depth Prediction based on Hybrid GRU-BiLSTM Model", **4th International Conference on Data Intelligence and Cognitive Informatics (ICDICI 2023)**. [Accepted]
4. 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]
5. 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.
6. 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
7. 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
8. 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.
9. Mainejar Yadav, **Ranvijay**," Efficient Multiple Secret Sharing via Cellular Automata Rule 30" in **5th IEEE international Conference on Communication and Signal Processing (ICCSP-2016)**.

10. Nikesh Singh Tanver, Mainejar Yadav, **Ranvijay**,” Bitwise Encoded Visual Secret Sharing Scheme for Gray Scale Image” in *6thIEEE International Conference on Communication Systems and Network Technologies (CSNT-2016)*, 2016.
11. 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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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.
17. 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.
18. Smriti Agrawal, Rama Shankar Yadav, **Ranvijay**, “System Level Energy Aware Fault-Tolerant Approach for Real-Time Systems”, in *10th IEEE conference, IEEE TENCON-2008*, 18- 21 November, 2008, Hyderabad, India.
19. 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.
20. 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: 08

1. Divyanshi Singh, Neetu Verma, and **Ranvijay**, "Enhancing Skin Cancer Classification with Ensemble Models," In **3rd International Conference On Advanced Network Technologies And Intelligent Computing, ANTIC 2023.[Accepted]**.
2. 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.
3. Agrawal, Smriti, Rama Shankar Yadav, and **Ranvijay**. "A pre-emption control technique for system energy minimization of weakly hard real-time systems." *Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing* (2008): 201-215. [ISBN: 978-3-540-70559-8].
4. **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].
5. 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 Computational Sciences: Proceedings of ICCCS 2016*, Volume 2 2018 (pp. 101-109). Springer Singapore.
6. Shashni N, **Ranvijay**, Yadav M. Cryptanalysis on digital image watermarking based on feature extraction and visual cryptography. In *Progress in Advanced Computing and Intelligent Engineering: Proceedings of ICACIE 2017*, Volume 1 2019 (pp. 425-435). Springer Singapore.
7. 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]
8. 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.