



**COMPUTER SCIENCE AND ENGINEERING DEPARTMENT UNIVERSITY  
DEPARTMENTS, RTU, KOTA**

**list of Some recent publications**

1. **Dr. R.K.Banyal**, Analysis and processing aspects of data in big data applications,23:2, 385-393, Journal of Discrete Mathematical Sciences and Cryptography , Print ISSN: 0972-0529 Online ISSN: 2169-0065.  
<https://www.tandfonline.com/doi/abs/10.1080/09720529.2020.1721869>
2. **Dr. R.K.Banyal**, Machine Learning Algorithms for Big Data Analytics. Computational Methods and Data Engineering. Advances in Intelligent Systems and Computing, vol 1227. Springer, Singapore.Print ISBN978-981-15-6875-6, Online ISBN978-981-15-6876-3.  
[https://doi.org/10.1007/978-981-15-6876-3\\_27](https://doi.org/10.1007/978-981-15-6876-3_27)
3. **Dr. R.K.Banyal**, “Outlier detection and removal: An efficient and effective concept in healthcare sector”,4th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2019), December 13th-14th, 2019.  
<https://doi.org/10.1201/9781003052098>.
4. **Dr. R.K.Banyal**, The Cyber Security Challenges: A Survey of Chief Information Security Officer in Indian Context” 4th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2019), December 13th-14th, 2019.  
<https://doi.org/10.1201/9781003052098>
5. **Dr. R.K.Banyal**, Data Life Cycle Management in Big Data Analytics”, International Conference on Smart Sustainable Intelligent Computing and Applications under ICITETM 2020, DOI:10.1016/j.procs.2020.06.042
6. **Dr. R.K.Banyal**, “Machine Learning Algorithms for Big Data Analytics”, International Conference on Computational Methods and Data Engineering (ICMDE 2020)
7. **Nirmala Sharma**, Harish Sharma, Ajay Sharma, “An effective solution for single machine total weighted tardiness problem using lunar cycle inspired artificial bee colony algorithm”, IEEE Transactions on computational biology and bioinformatics, 2019

8. **Nirmala Sharma**, Avinash Kaur, Harish Sharma, Ajay Sharma, and Jagdish Chand Bansal. "Chaotic Spider Monkey Optimization Algorithm with Enhanced Learning." In *Soft Computing for Problem Solving*, pp. 149-161, Springer, Singapore, 2019.
9. Pragya Rawal, Harish Sharma, **Nirmala Sharma**, "Fast Convergent Gravitational Search Algorithm." *Recent Trends in Communication and Intelligent Systems 2020*.(pp1-12), Springer.
10. Harish Sharma, Kritika Sharma, **Nirmala Sharma**, Asif Assad, J C Bansal, "Fitness-Based Controlled Movements in Artificial Bee Colony Algorithm" *Soft computing for problem solving* (pp 749-760), AIS series, Springer, 2019.
11. Apoorva Sharma, **Nirmala Sharma**, Harish Sharma, "Exponential adaptive strategy with Spider Monkey Optimization Algorithm with Enhanced", *Soft computing for problem solving* (pp 749-760), AIS series, Springer, 2019.
12. Ruchi Mishra, **Nirmala Sharma**, Harish Sharma. "Half-Life Teaching Factor Based TLBO Algorithm." *Advances in Data and Information Sciences*.Springer, Singapore, 2020.257-269.
13. Saxena A, Shekhawat S, Sharma A, **Sharma H**, Kumar R. Chaotic step length artificial bee colony algorithms for protein structure prediction. *Journal of Interdisciplinary Mathematics*, 23(2):617-29, February 2020.
14. Lalwani S, **Sharma H**, Deep K. An Implementation of Three-level Multi-objective ABC Algorithm for RNA Multiple Structural Alignment. *Recent Advances in Computer Science and Communications (Formerly: Recent Patents on Computer Science)*, 13(1):68-76, February 2020.
15. Shekhawat, S.S., Shringi, S. and **Sharma, H.**, Twitter sentiment analysis using hybrid Spider Monkey optimization method. *Evolutionary Intelligence*, pp.1-10. 2020.
16. Singh G, Sharma N, **Sharma H**. Shuffled teaching learning-based algorithm for solving robot path planning problem. *International Journal of Metaheuristics*, 7(3):265-83, 2020.
17. Khandelwal, Ashish, Annapurna Bhargava, Ajay Sharma, and **Harish Sharma**. "Transmission network expansion planning using state-of-art nature inspired algorithms: a survey." *International Journal of Swarm Intelligence* 4, no. 1: 73-92, 2019.
18. Sharma S, **Sharma H**, Sharma JB. An adaptive color image watermarking using RDWT-SVD and artificial bee colony based quality metric strength factor optimization. *Applied Soft Computing*, 84:105696, November 2019.

19. Sharma P, **Sharma H**, Bansal JC. Effective competency based differential evolution algorithm. *Journal of Statistics and Management Systems*, 22(7):1223-38, October 2019.
20. Lalwani S, **Sharma H**, Verma A, Kumar R. Efficient discrete firefly algorithm for Ctrie based caching of multiple sequence alignment on optimally scheduled parallel machines. *CAAI Transactions on Intelligence Technology*, 92-100, July 2019.
21. **Sharma, Harish**, Kritika Sharma, Nirmala Sharma, Assif Assad, and Jagdish Chand Bansal. "Fitness-Based Controlled Movements in Artificial Bee Colony Algorithm." In *Soft Computing for Problem Solving*, pp. 749-760. Springer, Singapore, 2020.
22. Mishra, Ruchi, Nirmala Sharma, and **Harish Sharma**. "Half-Life Teaching Factor Based TLBO Algorithm." *Advances in Data and Information Sciences*. Springer, Singapore, 2020. 257-269.
23. Rawal, Pragya, **Harish Sharma**, and Nirmala Sharma. "Fast Convergent Gravitational Search Algorithm." *Recent Trends in Communication and Intelligent Systems*. Springer, Singapore, 2020. 1-12.
24. **Harish Sharma** "Fully informed Grey Wolf Optimizer Algorithm", International Conference on Information Management & Machine Intelligence (ICIMMI-2019) held during December 14-15, 2019 at Poornima Institute of Engineering & Technology, Jaipur. (Presented)
25. Khandelwal, Ashish, **Sharma H** et al. "ACOPF-Based Transmission Network Expansion Planning Using Grey Wolf Optimization Algorithm." *Soft Computing for Problem Solving*. Springer, Singapore, 177-184, 2019.
26. Sharma P, **Sharma H**, Kumar S, Sharma K. Black-hole gbest differential evolution algorithm for solving robot path planning problem. In *Harmony search and nature inspired optimization algorithms* (pp. 1009-1022). Springer, Singapore, 2019.
27. Sharma, Prashant, **Sharma H** et al. "A review on scale factor strategies in differential evolution algorithm." *Soft computing for problem solving*. Springer, Singapore, 925-943, 2019.
28. Lalwani S, **Sharma H**, Verma A, Deep K. Minimization of Makespan for Parallel Machines Using PSO to Enhance Caching of MSA-Based Multi-query Processes. In *Soft Computing for Problem Solving* (pp. 193-205). Springer, Singapore, 2019.

29. Borgaonkar, P., **Sharma, H.**, Sharma N., & Sharma, A. K. (2019). Social Big Data Analysis—Techniques, Issues and Future Research Perspective. In *Emerging Trends in Expert Applications and Security* (pp. 625-632) Springer, Singapore.
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31. Sharma, A., Sharma, N., **Sharma, H.**, & Bansal, J. C. (2020). Exponential Adaptive Strategy in Spider Monkey Optimization Algorithm. In *Soft Computing for Problem Solving 2019* (pp. 1-15). Springer, Singapore.
32. V. K. Menaria, **S. C. Jain**, N. Raju, R. Kumari, A. Nayyar and E. Hosain NLFIT: A Novel Fault Tolerance Model Using Artificial Intelligence to Improve Performance in Wireless Sensor Networks *IEEE Access* Electronic ISSN:2169-3536 vol. 8 2020 IEEE ACCESS
33. Menaria V.K., **Jain S.C.**, Nagaraju A. An Efficient Fault-Tolerant Mechanism to Ameliorate Performance in Wireless Sensor Networks *Rising Threats in Expert Applications and Solutions. Advances in Intelligent Systems and Computing* Print ISBN978-981-15-6013-2 vol 118744106 Springer, Singapore Online ISBN978-981-15-6014-9
34. Mayank Sohani, **Dr. S. C. Jain**, "A Scheme of Predictive Priority based Algorithm for Load Balancing in Cloud Computing *IEEE Access* 44188 *IEEE Access*
35. Chouhan, N., **Jain, S.C.**, Tunicate swarm Grey Wolf optimization for multi-path routing protocol in IoT assisted WSN networks *Journal of Ambient Intelligence and Humanized Computing* 44145 Springer
36. Chouhan, N., **Jain, S.C.**, Establish an Algorithm for Energy Efficient IoT Network *Kala Sarovar (UGC Care Group-1 Journal)* ISSN: 09754520 Vol. 2344075 *Kala Sarovar (UGC Care Group-1 Journal)*
37. Dynamic Spot Price Forecasting Using Stacked LSTM Networks  
V Chittora, **CP Gupta** - 2020 3rd International Conference on Intelligent ..., 2020
38. VNE-NR: A Node-Ranking Method for Performing Topology-Aware and Resource-Driven Virtual Network Embedding  
A Hashmi, **CP Gupta** - 2020 11th International Conference on Computing ..., 2020
39. Magnetic Induction Based Modified Depth Based Routing for Underwater Wireless Sensor Networks

**Other list of publications**

1. Kanika Sharma and R.S. Sharma, "Improved Shuffled Frog Leaping Algorithm", International Journal of Advances in Scientific Research and Engineering, Volume 3, Issue 9, October 2017.
2. Neha Gautam, R S Sharma and Garima Hazrati, "Handwriting Recognition of Brahmi Script (an Artefact): Base of PALI Language. "Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems, Volume 2,Part IV, pp519-527, May 2016.
3. Maneesh Singhal and Rama shankar Sharma, "Optimization of Naïve Bayes Data Mining Classification Algorithm." IJRASET, Vol. 2 Issue VIII, August 2014, pages 145-154.2.
4. Parth Vidyarthi and Rama Shankar Sharma," A Novice Approach for Transferring Text files." IJRASET, Vol. 2 Issue VI, June 2014.3.
5. Arihant Kumar Jain and Ramashankar Sharma, "Leader Election Algorithm in Wireless Environment Using Fibonacci Heap Structure." International Journal of Computer Technology & Applications, Vol 3 (3), 871-873, May-June 2012.
6. Gaurav Sharma and R.S. Sharma, " A Study & Comparative Analysis of performances of database on Clouds." IJSER, Volume 3, Issue 10, October 2012.
7. Ankit Kumar Rao and Rama Shankar Sharma," An Optimized Algorithm for Mutual Exclusion in Distributed Systems." International Journal of Electrical, Electronics & Computer Science Engg. (IJECCSE), volume 2, issue 1, Feb 2015.
8. Sameeksha Chauhan and Rama Shankar Sharma, "A Non-cooperative Approach For Resource Allocation in Heterogeneous Distributed Computing Platform." International Journal for Research in Applied Science & Engg Technology (IJRASET), Volume 3 Issue V, May 2015 pages623-627.
9. Sonam Nagar and R. S. Sharma, "Brahmi- The Divine Pristine Script: A Survey" World Congress on Interrelationship among Arts, Culture, Huminities, Religion, Education,

Ethics, Philosophy, Spirituality, Science and Society for Holistic Humane Development, ISBN No. 978-93-85822-32-2. International Conference Proceedings Pages 56-67, Sept 2016.

10. Sonam Nagar and R. S. Sharma, "Offline Handwritten Brahmi Script Character Recognition through DBLPT Method" International Conference on "Engineering & Technology, Computer , Basic and Applied sciences"-ECBA-2016. Published in conference proceeding with ISBN No. 978-969—683-116-7. Accepted Nov 2016.
11. Akanksha Samar and R. S. Sharma, "A Semi-Chaotic Integrated Based Inertia Weight Particle Swarm Optimization Algorithm To Solve Travelling Salesman Problem", Paper ID 79, 7th International Conference on Soft Computing for Problem Solving (socpros 2017).
12. Rashi Jain, R. S. Sharma, "Image Segmentation through Fuzzy Clustering: A Survey", 4th International Springer Conference on Harmony Search, Soft Computing and Applications (ICHSA), 2018.
13. Rashi Jain, R. S. Sharma, "Predicting Severity of Cracks in Concrete using Fuzzy Logic", IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering, presented & published 27-28 july,2018.
14. Amit Khandelwal and Rama Shankar Sharma," Heuristic Strategy for Multiphase Applications Scheduling onto Identical Parallel Multiprocessor." International Conference On High Performance Computing And Applications (Ichpca), Paper 152,December 22-24, 2014.
15. Sonuchoudhary, Rama Shankar Sharma and Sneha Shriya, "A Novel MTC-RB Heuristic for Addressing Target Coverage in Heterogeneous Wireless Sensor Network." 4th International Conference on Frontiers in Intelligent Computing: Theory and Practices (FICTA- 2015) by Springer, PAPER 185, November15-18, 2015 (accepted).
16. Sneha Shriya, , Rama Shankar Sharma and Sonuchoudhary," Directed search based PSO algorithm and its application to scheduling independent task in multiprocessor environment." 4th International Conference on Frontiers in Intelligent Computing: Theory and Practices (FICTA- 2015) by Springer, November15-18, 2015(accepted).
17. Neha Gautam, R. S. Sharma and Garima Hazrati, "Eastern Arabic Numerals: A Stand Out from Other Jargons." IEEE CICN-2015, Paper ID: 591, Accepted Sept15.

18. Neha Gautam, R. S. Sharma and Garima Hazrati, "Aakhara-Muni: An Instance for Classifying PALI Characters." IEEE CICN-2015, Paper ID: 590, Accepted Sept15 .
19. Neha Gautam, R. S. Sharma and Garima Hazrati, "Aryika: A PALI Alphabet recognitionsript." IEEE CICN-2015, Paper ID: 177, Accepted Sept15.
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27. Ajay Sharma, Harish Sharma, Annapurna Bhargava,& Nirmala Sharma, "Transmission expansion planning problem using Fibonacci inspired spider monkey optimization algorithm", International Journal of Swarm Intelligence, Inderscience 2016.

28. Ajay Sharma, Harish Sharma, Annapurna Bhargava, & Nirmala Sharma, "Design of PIDA controllers for induction motors using spider monkey optimization algorithm", *International journal of metaheuristics, Inderscience*, 5(3-4), pp 278-290, 2016.
29. Ashish Khandelwal, Annapurna Bhargava, Ajay Sharma, Nirmala Sharma "Security constrained transmission network expansion planning using grey wolf optimization algorithm", *Journal of Information and Optimization Sciences*, Taylor and Francis (In Press, 2018).
30. Nirmala Sharma, Harish Sharma, Ajay Sharma, J.C.Bansal "Black Hole Artificial Bee Colony Algorithm" 6th International Conference SEMCCO Hyderabad, LNCS, Springer, 2015.
31. Nirmala Sharma, Harish Sharma, Ajay Sharma, J.C.Bansal" Disruption Artificial Bee Colony Algorithm" 5th International Conference socpros, Springer Saharanpur campus IIT Roorkee, 2015.
32. Aditi Gupta, Nirmala Sharma, Harish Sharma Fitness based gravitational search algorithm. In 2016 International Conference on Computing, Communication and Automation (ICCCA) 2016 Apr 29 (pp. 309-314) IEEE.
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39. Pragya Sharma, Nirmala Sharma, and Harish Sharma “Binomial crossover embedded shuffled frog leaping algorithm”. International Conference on Computing, Communication and Automation (ICCCA) (pp. 321-326). IEEE (2016).
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41. Pragya Sharma, Nirmala Sharma, and Harish Sharma “Elitism based Shuffled Frog Leaping algorithm” International Conference on Advances in Computing, Communications and Informatics (ICACCI) (pp. 788-794). IEEE (2017).
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53. Rashmi Agarwal, Harish Sharma, and Nirmala Sharma "Gaussian scale factor based Differential evolution" Smart and Innovative Trends in Next Generation Computing Technologies, Third International Conference, Springer NGCT 2017, Dehradun, India, October 30-31, 2017.
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