

Appendix A

List of Publications

Journals

1. **Kuldeep Singh**, Harish Kumar Shakya, Abhimanyu Singh, Bhaskar Biswas, “Efficient algorithm for mining high utility itemsets with negative utility”, Expert Systems, *wiley*, DOI:10.1111/exsy.12296, (SCI), ISSN: 1468-0394, IF 1.18. [Published]
2. **Kuldeep Singh**, Shashank Sheshar Singh, Ajay Kumar, Bhaskar Biswas, “TKEH: an efficient algorithm for mining top-k high utility itemsets”, Applied Intelligence *Springer*. DOI: 10.1007/s10489-018-1316-x ISSN: 0924-669X, (SCI). [Published]
3. **Kuldeep Singh**, Harish Kumar Shakya, Siddhartha Kumar Arjaria, N. Arunkumar, Bhaskar Biswas, “Efficient algorithm for mining high utility pattern considering length constraints” Cluster Computing-The Journal of Networks, Software Tools and Applications, *Springer* , ISSN: 1386-7857, (SCI) IF-2.040. [In Press]
4. **Kuldeep Singh**, Shashank Sheshar Singh, Ajay Kumar, Bhaskar Biswas, “High Utility Itemsets Mining with Negative Utility Value: A Survey”, Journal of Intelligent and Fuzzy Systems, *IOS Press*, ISSN: 1064-1246, (SCI). [In Press]
5. **Kuldeep Singh**, Ajay Kumar, Shashank Sheshar Singh, Harish Kumar Shakya, Bhaskar Biswas, “CHN: an efficient algorithm for mining closed high utility

- itemsets with negative utility”, IEEE Transactions on Knowledge and Data Engineering, *IEEE*, (SCI), ISSN: 1041-4347, IF 3.438. [In Revision]
6. **Kuldeep Singh**, Ajay Kumar, Shashank Sheshar Singh, Bhaskar Biswas, “EHNL: An efficient algorithm for mining high utility itemsets considering negative item value and length constraints”, Journal of Intelligent Information Systems, *Springer*, (SCI), ISSN: 0925-9902, IF 1.107. [In Revision]
 7. **Kuldeep Singh**, Shashank Sheshar Singh, Ajay Kumar, Ashish Kumar Luhach, Ramesh C. Poonia, and Bhaskar Biswas, “Top-k High Utility Itemsets Mining: current status and future directions”, Recent Patents on Engineering, *Bentham Science*, (Scopus), ISSN: 1872-2121. [Accepted]
 8. **Kuldeep Singh**, Shashank Sheshar Singh, Ajay Kumar, Harish Kumar Shakya, Bhaskar Biswas, “A pattern-growth based approach for mining top-k high utility itemsets with negative utility”, Applied Intelligence, *Springer*, (SCI), ISSN: 0924-669X, IF 1.904. [Communicated]
 9. **Kuldeep Singh**, Harish Kumar Shakya, and Bhaskar Biswas. Clustering of people in social network based on textual similarity. Perspectives in Science, *Elsevier*, vol-8, pages-570 – 573, 2016. ISSN: 2213-0209.

Conference Proceedings

1. **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas , “An Efficient Approach to Discovering Frequent Patterns from Data Cube using Aggregation and Directed Graph”, 6th International Conference on Computer and Communication Technology, ICCCT-2015, September 25-27, 2015, pp. 31-35, MNNIT Allahabad. ISBN: 978-1-4503-3552-2
2. Raghav Gupta, Shashank Awasthi, **Kuldeep Singh** and Bhaskar Biswas, “Mining top-k high on-shelf utility itemsets using novel threshold raising strategies”, 35th IEEE International Conference on Data Engineering (ICDE 2019), [Conference Rank- Tier 1]. [Communicated]

Book Chapters

1. **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, “Discovery of Multi-frequent Patterns Using Directed Graph”, in a book titled “Emerging Research in Computing, Information, Communication and Applications (ERCICA 2015)”, *Springer* volume 2, PP 153-162 (ISBN 978-81-322-2552-2).
2. **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, “Frequent Patterns Mining from Data Cube using Aggregation and Directed Graph”, in a book titled “Advances in Intelligent Systems and Computing”, *Springer* pp 167-177, (ISBN 978-81-322-2695-6).
3. **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, “Happiness Index in Social Network”, in a book titled, *Advanced Informatics for Computing Research*, *Springer* pp- 261-270, (ISBN 978-981-10-5779-3).