Dr. Manjunath K Vanahalli

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EDUCATION

National Institute of Technology Karnataka, Surathkal, Mangaluru, India   2014 - 2019
Doctorate of Philosophy.
Thesis Title: Efficient Mining of Frequent Colossal Itemsets From High Dimensional Data

Manipal Institute of Technology, Manipal (Manipal University)   July 2013
Master of Technology in Computer Science and Engineering.

Basaveshwar Engineering College, Bagalkot (VTU)   July 2010
Bachelor of Engineering in Computer Science and Engineering.

RESEARCH INTEREST

Data Mining, Distributed and Parallel Computing, Machine Learning

EXPERIENCE

- **Adhoc Faculty in Department of Information Technology**
  National Institute of Technology Karnataka, Surathkal, Mangalore.   July 2019 - December 2020

- **Teaching Assistant in Department of Information Technology**
  National Institute of Technology Karnataka, Surathkal, Mangalore.   August 2014 - May 2019

- **Assistant Professor in Department of Computer Science and Engineering**
  Manipal Institute of Technology, Manipal.   July 2013 - July 2014

- **Intern in Intel**
  Intel, Bangalore.   June 2013 - June 2014

PUBLICATIONS

Journals

· 1. Manjunath K Vanahalli, Nagamma Patil, "An Efficient Parallel Row Enumerated Algorithm for Mining Frequent Colossal Closed Itemsets from High Dimensional Datasets", **Information Sciences**, **Elsevier**, Volume: 496, pp. 343-362. (**SCI and Scopus Indexed**) (Impact Factor: **5.9**)
DOI: https://doi.org/10.1016/j.ins.2018.08.009

· 2. Manjunath K Vanahalli, Nagamma Patil, "An Efficient Dynamic Switching Algorithm for Mining Colossal Closed Itemsets from High Dimensional Datasets", **Data and Knowledge Engineering**, **Elsevier**. (**SCI and Scopus Indexed**) (Impact Factor: **1.6**)
DOI: https://doi.org/10.1016/j.datak.2019.101721

· 3. Manjunath K Vanahalli, Nagamma Patil, "Distributed Load Balancing Frequent Colossal Closed Itemset Mining Algorithm for High Dimensional Dataset", **Journal of Parallel and Distributed Computing**, **Elsevier**. (**SCI and Scopus Indexed**) (Impact Factor: **2.2**)
DOI: https://doi.org/10.1016/j.jpdc.2020.05.017

- · 4. Manjunath K Vanahalli, Nagamma Patil, "An Efficient Colossal Closed Itemset Mining Algorithm for Dataset with High Dimensionality", **Journal of King Saud University - Computer and Information Sciences**, **Elsevier**. (**Scopus Indexed**) (CiteScore: **8.0**)
  DOI: https://doi.org/10.1016/j.jksuci.2020.04.008

Conferences

- · 1. Manjunath K Vanahalli, Nagamma Patil, "Association Analysis of Significant Frequent Colossal Itemsets Mined from High Dimensional Datasets", 3rd IEEE International Conference on Electrical, Computer and Electronics Engineering (UPCON-2016) (pp. 258-263), (IIT-BHU, India) (Scopus Indexed). DOI: https://doi.org/10.1109/UPCON.2016.7894662

- · 2. Manjunath K Vanahalli, Nagamma Patil, "Distributed Mining of Significant Frequent Colossal Closed Itemsets from Long Biological Dataset", 18th International Conference on Intelligent Systems Design and Applications (ISDA-2018) (pp. 891-902) (VIT Vellore, India), (Scopus Indexed) (CORE C). DOI: https://doi.org/10.1007/978-3-030-16657-1_83

- · 3. Sureshan, S., Penumacha, A., Jain, S., Manjunath K Vanahalli and Nagamma Patil, 2018. Mining Closed Colossal Frequent Patterns from High-Dimensional Dataset: Serial Versus Parallel Framework. In Progress in Intelligent Computing Techniques: Theory, Practice, and Applications (pp. 317-326). Springer, Singapore. (Scopus Indexed) DOI: https://doi.org/10.1007/978-981-10-3373-5_32

- · 4. Manjunath K Vanahalli, Nagamma Pail,"An Efficient Mining of Frequent Colossal Closed Itemsets from High Dimensional Dataset", 9th International Conference on Computing Communication and Networking Technologies (ICCCNT) (IISc, Bengaluru, India). (Scopus Indexed) (Accepted, Not Presented)