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Mohammad Maksood Akhter

Areas of Interest:

Research Interest Areas

Graph-Based Clustering, Deep Clustering, Feature Selection, Deep Learning-Based Solutions for Biomedical Engineering

Education

- 2021–present **PhD, Computer Science & Engineering**, PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, Madhya Pradesh.
Thesis title:- Multi-Scale Graph Clustering Optimization via Split and Merge Methodology
CPI : 9.3/10
- 2019–2021 : **Master of Engineering, Information Technology**, PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, Madhya Pradesh.
CPI : 7.9/10
- 2014–2018 : **Bachelor of Technology, Information Technology**, Muzaffarpur Institute of Technology, Muzaffarpur, Bihar.
CPI : 7.7/10

Publications

Journals

1. **Mohammad Maksood Akhter**, Rashmi Maheswari, Abdul Atif Khan, and Sraban Kumar Mohanty. "GC-SPM: A fast $\mathcal{O}(N \lg N)$ Graph Clustering technique using Structural Proximity for social systems analysis". In: *IEEE Transactions on Computational Social Systems* (2025), (IF:4.5, SCI Q1)
2. **Mohammad Maksood Akhter**, Abdul Atif Khan, Rashmi Maheshwari, R Jothi, and Sraban Kumar Mohanty. "A fast sparse graph based clustering technique using dispersion of data points". In: *Neurocomputing* 618 (2025), 129054, (IF:5.5, SCI Q1)
3. Abdul Atif Khan, **Mohammad Maksood Akhter**, Rashmi Maheshwari, and Sraban Kumar Mohanty. "L-ASCRA: A Linearithmic Time Approximate Spectral Clustering Algorithm Using Topologically-Preserved Representatives". In: *IEEE Transactions on Knowledge and Data Engineering* (2024), (IF:8.9, SCI Q1)
4. Rashmi Maheshwari, Abdul Atif Khan, **Mohammad Maksood Akhter**, Sraban Kumar Mohanty, and Amaresh Chandra Mishra. "GGDC: Graphical and Gravitational Force-Based Density Clustering". In: *IEEE Transactions on Computational Social Systems* (2024), (IF:4.5, SCI Q1)
5. Amit Kumar Kar, **Mohammad Maksood Akhter**, Amaresh Chandra Mishra, and Sraban Kumar Mohanty. "EDMD: An Entropy based Dissimilarity measure to cluster Mixed-categorical Data". In: *Pattern Recognition* (2024), 110674 (IF:7.5, SCI Q1)

6. **Mohammad Maksood Akhter** and Sraban Kumar Mohanty. "A fast $O(N \lg N)$ time hybrid clustering algorithm using the circumference proximity based merging technique for diversified datasets". In: **Engineering Applications of Artificial Intelligence** 125 (2023), 106737 (**IF:7.5, SCI Q1**)

Conferences

1. Fauzia Yasmeen, **Mohammad Maksood Akhter**, and Rashmi Maheswari. "CODLSTM: Predicting Time Series Glucose Levels Using One-Dimensional Convolutions and Memory-Augmented Recurrent Networks". In: **2nd International Conference on Computational Intelligence and Network Security** (Accepted)
2. Abdul Atif Khan, Rashmi Maheshwari, **Mohammad Maksood Akhter**, and Sraban Kumar Mohanty. "SBSC: A fast Self-tuned Bipartite proximity graph-based Spectral Clustering". In: **SIGMOD International Conference on Management of Data** (Accepted)

Fellowships & Awards

2023–present Received Senior research fellowship from PDPM IITDM Jabalpur
2021–2023 Received Junior research fellowship from PDPM IITDM Jabalpur
2019–2021 Received **MHRD Scholarship** for Master of Technology.

Academic Achievements & Recognitions

2022 Selected for the **JENESYS** (Japan-East Asia Network of Exchange for Students and Youths) for a cultural exchange program in Japan.
2018 Qualified in GATE 2018 and GATE 2019.

Reviewer to International Journals

- 1 Knowledge-Based Systems
- 2 Engineering Applications of Artificial Intelligence
- 3 Information Sciences
- 4 Expert Systems with Applications
- 5 Neurocomputing
- 6 IEEE Transactions on Human-Machine Systems
- 7 Cluster Computing

Personal Detail

Date of Birth: November, 16, 1996
Nationality: Indian
Passport No.: S5388272 valid up to August 13, 2028
Sex: Male
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I hereby declare that the information furnished as above is true to the best of my knowledge and belief.
-**Mohammad Maksood Akhter**