Dr. Vikram Garg

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in vikram-garg-6222ba5b

Employment History

December 2023 – $July 29, 2024$	▮ **Assistant Professor,** Maulana Azad National Institute of Technology Bhopal.
August 2022 – December 2023	▮ **Assistant Professor (Contarct),** Maulana Azad National Institute of Technology Bhopal.
July 2016 – July 2017	▮ **Assistant Professor,** Sagar Institute of Science & Technology (SIS-Tec) Bhopal.
August 2010 – June 2016	▮ **Assistant Professor,** Lakshmi Narain College of Technology Excellence Bhopal

Education

2017 – 2022	▮ **Ph.D., ABV- Indian Institute of Information Technology & Management Gwalior** Thesis title: *Cooperative Multi-target Searching and Tracking using Nature-Inspired Algorithms* Thesis Supervisor: *Prof. Anupam Shukla and Prof. Ritu Tiwari*
2010 – 2014	▮ **M.Tech. (Computer Science & Engineering), Barkatullah University Institute of Technology Bhopal**. Thesis title: *Privacy Preservation in Association Rule Mining using Representative Rule.*
2004 – 2008	▮ **B.E.(Computer Science & Engineering), Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal**.

Research Publications

Journal Articles

1. V. Garg, "E2rgwo: Exploration enhanced robotic gwo for cooperative multiple target search for robotic swarms," *Arabian Journal for Science and Engineering,* vol. 48, no. 8, pp. 9887–9903, 2023.

2. V. Garg, A. Shukla, and R. Tiwari, "Aerpso—an adaptive exploration robotic pso based cooperative algorithm for multiple target searching," *Expert Systems with Applications,* vol. 209, p. 118 245, 2022.

3. V. Garg, R. Tiwari, A. Shukla, and J. Dhar, "A distributed cooperative approach for dynamic target search using particle swarm optimization with limited intercommunication," *Arabian Journal for Science and Engineering,* vol. 47, no. 8, pp. 10 623–10 637, 2022.

4. V. Garg, "Cooperative multi-robot target searching and tracking using velocity inspired robotic fruit fly algorithm," *SN Computer Science,* vol. 2, no. 6, p. 474, 2021.

5. V. Garg, A. Singh, and D. Singh, "A hybrid algorithm for association rule hiding using representative rule," *International Journal of Computer Applications,* vol. 97, no. 9, 2014.

Conference Proceedings

1. V. Garg, R. Tiwari, and A. Shukla, "Comparative analysis of fruit fly-inspired multi-robot cooperative algorithm for target search and rescue," in *2022 IEEE World Conference on Applied Intelligence and Computing (AIC),* IEEE, 2022, pp. 444–450.

2. V. Garg, A. Singh, and D. Singh, "A survey of association rule hiding algorithms," in *2014 Fourth International Conference on Communication Systems and Network Technologies,* IEEE, 2014, pp. 404–407.

Thesis and Project Guided

Ph.D. Thesis

Ms. Preeti Tiwari (FT)	**Deep Learning Techniques in Healthcare (Ongoing)**

Projects

Attendance System Application	https://github.com/VinayBhupelli/attendance-system-app
Image-Captioning-using-Deep-Learning	https://github.com/suhaanibatra/Image-Captioning-using-Deep-Learning

Skills

Languages	Strong reading, writing and speaking competencies for English and Hindi.
Coding	Java, php, Python, sql, LaTeX, …
Databases	Mysql, Postgresql, sqlite.
Web Dev	Html, css, JavaScript, Apache Web Server, Tomcat Web Server.
Misc.	Academic research, teaching, training, consultation, LaTeX typesetting and publishing.

Miscellaneous

Roles and Responsibilities

Since December 2023	**Exam Coordinator of CSE Department & Centre of Artificial Intelligence**.
	Member of DUPC Committee of CSE Department & Centre of Artificial Intelligence.
	Placement Cooordinator of CSE Department & Centre of Artificial Intelligence.
Since April 2024	**Memeber of Rajbhasha Samiti from Centre of Artificial Intelligence**.

Training, Workshops and Conferences

2022	**2022 IEEE World Conference on Applied Intelligence and Computing** , Presented my research paper "Comparative Analysis of Fruit Fly-Inspired Multi Robot Cooperative Algorithm for Target Search and Rescue" .
2019	Attended a 5-day workshop on "**Robotics and Intelligent System**" at PDPM-Indian Institute of Information Technology, Design & Manufacturing, Jabalpur.
	Attended a 5-day workshop on "**VLSI Chip Design Hands on using open-source EDA**" at ABV- Indian Institute of Information Technology and Management, Gwalior (2019).
2018	Attended a 5-day workshop on "**Statistics and Research Methodology: An Exploration with a special focus on Multivariate Statistical Techniques**" at ABV- Indian Institute of Information Technology and Management, Gwalior (2018).
2014	Presented my research paper "A Survey of Association Rule Hiding Algorithms" at IEEE International Conference on Communication System and Network Technologies (CSTN), 2014.