



School of Mathematical & Computational Science

Department: Computer Science & Information Technology (CSIT)

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Dr. Rajwant Singh Rao, Assistant Professor

Qualifications: Ph.D.

Area of Interest/Specialization: Design Pattern Detection, Code Smell Detection, Machine Learning

Experience: More than 10 Years

Best Peer Reviewed Publication:

1. S. Dewangan, R. S. Rao, A. Mishra and M. Gupta, "A Novel Approach for Code Smell Detection: An Empirical Study," in *IEEE Access*, vol. 9, pp. 162869-162883, 2021, doi:10.1109/ACCESS.2021.3133810.
2. Sharma, S. K., Rao, R. S., Singh, P., & Khan, S. A. (2022). Evaluation of VANETs Routing Protocols for Data-Based Smart Health Monitoring in Intelligent Transportation Systems. *International Journal of Mathematical, Engineering and Management Sciences*, 7(2), 211. DOI: [10.33889/IJMEMS.2022.7.2.014](https://doi.org/10.33889/IJMEMS.2022.7.2.014)
3. Rajwant Singh Rao, Manjari Gupta, Design Pattern Detection by Greedy Algorithm Using Inexact Graph Matching, *International Journal of Engineering Research & Technology (IJERT)*, Vol. 2 Issue 10, pp. 3658- 3664, October – 2013, ISSN: 2278-0181
4. Rajwant Singh Rao, Manjari Gupta, Design Pattern Detection by Multilayer Neural Genetic Algorithm, *International Journal of Computer Science and Network*, Volume 3, Issue 1, pp. 9-14, February 2014, ISSN (Online) : 2277-5420
5. Rajwant Singh Rao, Manjari Gupta, Design Pattern Detection by Sub Graph Isomorphism Technique, *International Journal Of Engineering And Computer Science*, Volume 2 Issue 11, pp. 3101-3105,, November, 2013, ISSN:2319-7242.
6. Rajwant Singh Rao, Manjari Gupta, Design Pattern Detection by a Heuristic Graph Comparison Algorithm, *International Journal of Advanced Research in Computer Science and Software Engineering*, Volume 3, Issue 11, pp. 251-255, November 2013, ISSN: 2277 128X

7. Manjari Gupta, Rajwant Singh Rao, Design Pattern Mining by Product of Sum (POS) Expression for Graphs, International Journal of Computer Applications, Volume 85 – No 7, pp. 38-42, January 2014, ISSN 0975 – 8887
8. Rajwant Singh Rao, A Review on Design Pattern Detection, International Journal of Engineering Research & Technology (IJERT), Vol. 8 Issue 11, pp. 756-762, November-2019, ISSN: 2278-0181.
9. Rajwant Singh Rao, Some Observations in Design Pattern Detection by Graph Matching, International Journal of Advanced Research in Computer Engineering & Technology, Volume. 8, Issue 12, pp. 513-523, Dec-2019 , ISSN: 2278 – 1323

Recent Books/Book Chapters/Monographs etc.

1. Gupta, M., Rao, R.S., Pande, A., Tripathi, A.K. (2011). Design Pattern Mining Using State Space Representation of Graph Matching. In: Meghanathan, N., Kaushik, B.K., Nagamalai, D. (eds) Advances in Computer Science and Information Technology. CCSIT 2011. Communications in Computer and Information Science, vol 131. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-17857-3_32
2. Cyber Security: An Overview Cyber. Security And Laws In Information Technology Era : Challenges And Implications, Associated Publishing House, pp 34- 45, ISBN : 978-93-81778-97-5, 2021.
3. Trust And Privacy In Social media, Security And Laws In Information Technology Era : Challenges And Implications, Associated Publishing House, , ISBN : 978-93-81778-97-5, 2021

Research Supervision: 03 perusing

Administrative Responsibilities:

- **Cultural Coordinator**
- Member of various committees

Additional Information:

- Delivered Expert lectures in FDP and workshops
- Attended and completed more than 50 FDPs/Workshops