CURRICULUM VITAE

Dr. Rajwant Singh Rao

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Objective:

Highly dedicated and devoted to work for achieving the proposed and desired goal. I ever excel myself by learning every thing which comes in my way, which helps me to work in a challenging environment.

Research Interest:

Design Pattern Detection,

Area of interest   : Compiler Design, Artificial Intelligence, Algorithm ,Operating System and Data Structure.

Educational qualification:

➢ **Ph.D.** Thesis **"Some Observations on Design patterns Mining Using Graph Theory"** from Banaras Hindu University, Varanasi .

➢ **M.C.A. (Master in Computer Application)** from Babasaheb Bhimrao Ambedkar University(A Central University), Lucknow

➢ **B. Sc. (Computer Science & Mathematics)** from University of Allahabad.

➢ **Intermediate (10+2)** from Uttar Pradesh Intermediate Education Council, Allahabad.

➢ **Matriculation (10th)** from Uttar Pradesh School Examination Board, Allahabad.

Research / Teaching Experience:

➢ **Research Experience after Ph.D. 6+ years**
➢ **Teaching Experience at UG and PG level: 8+ years**
➢ **Guided more than 500 UP+PG students in project work.**
➢ **JRF (March 2011- June 2011) :**

Worked on the post of Junior Research Fellow (JRF) in DST-Centre for Interdisciplinary Mathematical Sciences (CIMS) Banaras Hindu University Varanasi.

Awards:

Rajiv Gandhi National Fellowship (RGNF)-2011.

ACHIEVMENTS:

➢ **UGC-NET** qualified in **Computer Science & Application** held on 28, December 2008 and June 2009.

➢ **GATE-2008** qualified in **Computer Science & Engineering**   Year : **2008**

Journals and Conferences:

1. 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

2. 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

3. 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.*

4. 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

5. 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*

6. 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.

7. 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

8. Manjari Gupta, Rajwant Singh Rao, Akshara Pande, and A.K. Tripathi. Design Pattern Mining Using State Space Representation of graph matching. Advances in Computer Science and Information Technology Communications in Computer and Information Science, 2011, Volume 131, Part 2, 318-328, Springer-Verlag Berlin Heidelberg 2011.

9. Manjari Gupta and Rajwant Singh Rao. A Subgraph Isomorphism Approach for Design Pattrns Detection using Genetic Algorithm. Proc. Of The International Conference on Artificial Intelligence and Soft Computing (ICAISC-2011), 9-10 April, 2011,Bhubaneswarr,India.

10. Manjari Gupta, Rajwant Singh Rao, Akshara Pande, and A.K. Tripathi. Design Pattern Mining by Normalized Cross Correlation. In Proc. Of The International Conference on Methods and Models in Computer Sciences (ICM2CS-2010), publised by IEEE Explore, 13-14 December 2010, JNU, New Delhi, India.

11. Inexact Graph Matching for Design Patterns Detection Using Genetic Algorithm. In Proc. Of The International Conference on Computer Engineering and Technolgy (ICCET-2010), publised by IEEE, 13-14 November, 2010 Jodhpur, Rajasthan, India.

12. Frequency re-use in the cells of network of mobile telephone system using genetic algorithm with robust fitness function, Department of Computer Science, Banaras Hindu University, National **Conference & Workshop** on "High **Performance Computing & Applications"**,Feb. 2010.

13. Participated in **National conference** on **"Building next generation of E- Learning", organized** by department of Computer science, Babasaheb Bhimrao Ambedkar University, Lucknow .

14. Rajwant Singh Rao, Seema Dewangan, Review and Classification of Design Patterns Mining Techniques. International Conference On Innovative Research In Science, Management And Technology (ICIRSMT - 2020)4-5 January, 2020. Accepted

Workshop /Winter School:

➢ Winter School on Statistical Estimation and Modeling: Topics on Least Square Methods, Ill-Conditioned Inverse Problems in Imaging, Natural Language Processing & Information Retrieval, and Speech Processing, Feb.2 -14, 2011, at DST- CIMS Banaras Hindu University (BHU), Varanasi India.

➢ National Instructional Workshop on Graph Theory and its Applications May 23-28, 2011 at DST- CIMS Banaras Hindu University (BHU), Varanasi India.

➢ Workshop on Multivariate Analysis: Matrix Methods, 28/11/2011 to 03/12/2011 at DST- CIMS Banaras Hindu University (BHU), Varanasi India.

CERTIFICATION COURCE:

4 Months Certification course of **MS.NET from HP Noida**.
1.5 Months Certification course of **Java from APTECH Institute in Delhi**.

Courses that I have studied during my M.C.A (BBAU Lucknow) and Ph.D. (BHU Varanasi) :

Ph.D. Courses:

- Simulation Modeling Practice and Theory
- High Performance Computing

- Software Architecture
- Design Pattern and Framework

REFERENCES:

1 Dr. Manjari Gupta

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2. Mr. Amitesh Jha
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<u>**DECLARATION**</u>

I hereby declare that all the above details furnished by me are true and correct to the best of my Knowledge and belief. I understand that the organization can take action against me if I am found to be guilty of furnishing
any wrong information.

Date : …………………
Place : …………………….   **(Rajwant Singh Rao)**