

INDRESH KUMAR GUPTA

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EMPLOYMENT HISTORY

Harcourt Butler Technical University, Kanpur *2018 - Today*
Guest Faculty in Computer Science & Engineering Department (School of Engineering): July 23, 2018 to till today at Harcourt Butler Technical University (Formerly HBTI)-Kanpur.

Harcourt Butler Technical University, Kanpur *2017 - 2018*
Guest Faculty in Computer Science & Engineering Department (School of Engineering): July 18, 2017 to May 31, 2018 at Harcourt Butler Technical University (Formerly HBTI)-Kanpur.

Telesonic Network Limited (Bharti Airtel), Chandigarh *2015 - 2016*
GIS-Engineer: September 21, 2015 to January 31, 2016 in Telesonic Network Limited (Airtel), Chandigarh

Neelam College of Engineering & Technology, Agra *2012 - 2013*
Lecturer: July 25, 2012 to July 10, 2013 in Computer Science & Engineering Department at Neelam College of Engineering & Technology, Agra.

EDUCATION

Doctorate of Philosophy (Pursuing)
Ph.d (Pursuing) - Computer Science & Engineering [Specialization : Computational Intelligence] from Chhattisgarh Technical University, Bilai.

Master of Technology *2013 - 2015*
M.Tech - Computer Science & Engineering [Specialization : Advanced Networks] from ABV-Indian Institute of Information Technology & Management, Gwalior *CGPA: 7.83/10.*

Bachelor of Technology *2008- 2012*
B.Tech - Computer Science & Engineering from Pranveer Singh Academy of Technology, Kanpur affiliated to UPTU, Lucknow *Percentage: 72.7.*

Intermediate *2007*
Intermediate - Science Stream from Chacha Nehru SIC Govind Nagar, Kanpur affiliated to U.P. Board, Allahabad *first class.*

High School *2005*
High School - Science Stream from Chacha Nehru SIC Govind Nagar, Kanpur affiliated to U.P. Board, Allahabad *first class.*

MASTER THESIS

Title: Intra Lattice Messaging Mechanism For Site Percolation Model to Enhance the Lifetime of Wireless Sensor Networks.

Supervisor: Dr. Kiran Kumar Pattanaik (Associate Professor)

Description This thesis proposed a messaging mechanism which uses mutual exclusion resolution technique to select the cluster head (CH) and dominating cluster member (DCM) to reduce the number of messages within lattices, based on the number of events sensed by lattice members .

PUBLICATIONS

1. Indresh Kumar Gupta, Jeetendra Kumar, Pradeep Rai "Optimization to Quality-of-Service-driven Web Service Composition using modified Genetic Algorithm", IEEE International Conference on Computer Communication and Control-2015 organized by **Medicaps group of Institution, Indore, M.P. India.**
2. Indresh Kumar Gupta, Abha Choubey, Siddharth Choubey "Particle Swarm Optimization With Selective Multiple Inertia Weights", 8th IEEE International Conference on Computing, Communication and Networking Technologies-2017, organized by **Indian Institute of Technology, Delhi, India.**
3. Indresh Kumar Gupta, Abha Choubey, Siddharth Choubey "Clustered Genetic Algorithm to solve Multidimensional Knapsack Problem", 8th IEEE International Conference on Computing, Communication and Networking Technologies-2017 organized by **Indian Institute of Technology, Delhi, India.**
4. Indresh Kumar Gupta, Abha Choubey, Siddharth Choubey "Randomized Genetic Algorithm to Solve Traveling Salesman Problem", 8th IEEE International Conference on Computing, Communication and Networking Technologies-2017 organized by **Indian Institute of Technology, Delhi, India.**
5. Jaya Mishra, Jaspaal Bagga, Siddharth Choubey, Indresh Kumar Gupta "Energy Optimized Routing For Wireless Sensor Networks Using Elitist Genetic Algorithm", 8th IEEE International Conference on Computing, Communication and Networking Technologies-2017 organized by **Indian Institute of Technology, Delhi, India.**
6. Indresh Kumar Gupta, Samiya Shakil, Sadiya Shakil "A Hybrid GA-PSO Algorithm to Solve Traveling Salesman Problem", Springer (AISC) International Conference on Computational Intelligence: Theories, Applications and Future Directions -2017 organized by **Indian Institute of Technology, Kanpur, India.**
7. Maya Diwakar, Jeetendra Kumar, Indresh Kumar Gupta "A Hybrid GA-GSA Noval Clustering Algorithm For Data Clustering ", 4th IEEE International Conference on Recent Advances in Information Technology -2018 organized by **Indian Institute of Technology, Dhanbad, India.**
8. Abhishek Agnihotri, Indresh Kumar Gupta "A Hybrid PSO-GA Algorithm For Routing in Wireless Sensor Network ", 4th IEEE International Conference on Recent Advances in Information Technology -2018 organized by **Indian Institute of Technology, Dhanbad, India.**
- 9., Indresh Kumar Gupta "A hybrid GA-GSA algorithm to solve multidimensional knapsack problem ", 4th IEEE International Conference on Recent Advances in Information Technology -2018 organized by **Indian Institute of Technology, Dhanbad, India.**
10. Indresh Kumar Gupta, Anita Yadav "A Hybrid Genetic Algorithm and Particle Swarm Optimization (GA-PSO) Algorithm for Solving Multidimensional Knapsack Problem", National Conference on Intelligent Computing, Communication and Data Science (NCICCD-2018) organized by **Harcourt Butler Technical University, Kanpur, India.**

11.Indresh Kumar Gupta, Vikas Yadav, Sushil Kumar "Medical Data Clustering based on Particle Swarm Optimization and Genetic Algorithm", International Journal of Advanced Intelligence Paradigms(IJAIP) published by **Inderscience. - In Press**

12.Vikas Yadav, Indresh Kumar Gupta "A Hybrid Approach to Metamorphic Cryptography using KIMLA and DNA Concept ", International Journal of Computational Systems Engineering published by **Inderscience. - In Press**

13.Indresh Kumar Gupta, "Evolutionary Computation an Optimization Technique", International Journal of Advanced Research in Computer Science and Software Engineering.

14.Indresh Kumar Gupta, "A Review on Particle Swarm Optimization", International Journal of Advanced Research in Computer Science and Software Engineering.

15.Indresh Kumar Gupta, "A Review on Genetic Algorithm Operators Based on Representation Scheme", International Journal of Advanced Research in Computer Science and Software Engineering.

PAPER PRESENTED

1."Optimization to Quality-of-Service-driven Web Service Composition using modified Genetic Algorithm", IEEE International Conference on Computer Communication and Control held on September 10-12,2015 organized by **Medi-caps Group of Institution Indore, M.P. India.**

2."Particle Swarm Optimization With Selective Multiple Inertia Weights", 8th IEEE International Conference on Computing, Communication and Networking Technologies-2017 held on July 3-5,2017 organized by **Indian Institute of Technology, Delhi, India.**

3."Clustered Genetic Algorithm to solve Multidimensional Knapsack Problem", 8th IEEE International Conference on Computing, Communication and Networking Technologies held on July 3-5,2017 organized by **Indian Institute of Technology, Delhi, India.**

4."Randomized Genetic Algorithm to Solve Traveling Salesman Problem", 8th IEEE International Conference on Computing, Communication and Networking Technologies held on July 3-5,2015 organized by **Indian Institute of Technology, Delhi, India.**

5."Energy Optimized Routing For Wireless Sensor Networks Using Elitist Genetic Algorithm", 8th IEEE International Conference on Computing, Communication and Networking Technologies held on July 3-5,2017 organized by **Indian Institute of Technology, Delhi, India.**

6."A Hybrid GA-PSO Algorithm to Solve Traveling Salesman Problem",Springer (AISC) International Conference on Computational Intelligence: Theories, Applications and Future Directions held on December 6-8,2017 organized by **Indian Institute of Technology, Kanpur, India.**

7."A Hybrid GA-GSA Noval Clustering Algorithm For Data Clustering ", 4th IEEE International Conference on Recent Advances in Information Technology -2018 held on March 15-17,2018 organized by **Indian Institute of Technology, Dhanbad, India.**

8."A Hybrid PSO-GA Algorithm For Routing in Wireless Sensor Network ", 4th IEEE International Conference on Recent Advances in Information Technology held on March 15-17,2018 organized by **Indian Institute of Technology, Dhanbad, India.**

9."A hybrid GA-GSA algorithm to solve multidimensional knapsack problem ", 4th IEEE International Conference on Recent Advances in Information Technology held on March 15-17,2018 organized by **Indian Institute of Technology, Dhanbad, India.**

10. "A Hybrid Genetic Algorithm and Particle Swarm Optimization (GA-PSO) Algorithm for Solving Multidimensional Knapsack Problem", National Conference on Intelligent Computing, Communication and Data Science (NCICCD-2018) held on November 29-30,2018 organized by **Harcourt Butler Technical University,Kanpur , India.**

WORKSHOPS /FACULTY DEVELOPMENT PROGRAM

1.One Week Faculty Development Programme on Application of Artificial Intelligence held on October 29,2018 - November 03,2018 under TEQIP-III organized by Department of Information Technology, Rajkiya Engineering College, Banda.

2.Workshop on Human Values and Professional Ethics held on July 27-29,2018 under TEQIP-III organized by Harcourt Butler Technical University,Kanpur.

3.One Week Faculty Development Programme on Data Mining held on June 1-6,2018 sponsored by Dr. A.P.J. Abdul Kalam Technical University,Lucknow under TEQIP-III organized by Sambunath Institute of Engineering & Technology, Allahabad.

COMMITTEE MEMBER

1. Member of organizing committee for the TEQIP-III sponsored National Conference on Intelligent Computing, Communication and Data Science (NCICCD-2018) organized by Department of Computer Science & Engineering at Harcourt Butler Technical University,Kanpur during November 29-30,2018.

RESEARCH INTERESTS

1. Nature Inspired Optimization Techniques- Genetic Algorithm, Particle Swarm Optimization, Gravitational Search Algorithm.

2.Routing in Wireless Sensor Networks.

SUBJECTS OF INTERESTS

1.Theory of Computation.

2.Graph Theory.

3.Operating System.

