Curriculum Vitae

Dr. Amit Kumar
Assistant Professor
Department of Information Technology
Rajkiya Engineering College Ambedkar Nagar
Katariya Yakoobpur, Ambedkar Nagar – 224122, U.P., India
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EDUCATION

PhD   School of Computer of Systems Sciences, Jawaharlal Nehru University, New Delhi, 2021

M.Tech   Computer Science and Technology, School of Computer of Systems Sciences, Jawaharlal Nehru University, New Delhi, 2012, 78.8%

B.Tech   Computer Science and Engineering, Kamla Neharu Institute of Technology, Sultanpur (U.P.), 2009, 69.08%

ACADEMIC /TEACHING EXPERIENCE

Assistant Professor :   Rajkiya Engineering College Ambedkar Nagar from December 2017 onwards :: Department of Information Technology

Assistant Professor :   GLA University Mathura from September 2017 to December 2017 :: Department of Computer Engineering and Applications

Assistant Professor :   IMS Engineering College Ghaziabad from May 2012 to August 2017 :: Department of Computer Science and Engineering

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COURSES TAUGHT

- Data Structures
- Design and Analysis of Algorithms
- Discrete Structures and Theory of Logic
- C Programming
- Compiler Design
- Computer Graphics
- Soft Computing
- Computer Networks

ADMINISTRATIVE EXPERIENCE

- Training and Placement Officer REC Ambedkar Nagar for the term 10/05/2018 to 12/02/2019.
- Associate HR and Training Officer REC Ambedkar Nagar from 12/02/2019 till date
- AICTE, NBA and NIRF Coordinator (IT Department) REC Ambedkar Nagar from 06/01/2018 till date

PUBLICATIONS

INTERNATIONAL REFERRED JOURNAL

1. **Amit Kuamr:**" A Hybrid SSA-BBO Algorithm for the Optimization of Multi-Layer Perceptron Training "International Journal of Intelligent Engineering Informatics. (Accepted) **(Scopus)**

2. **Amit Kumar**: "Swap Operator based Grey Wolf Optimizer for Materialized View Selection Problem" International Journal of Bio-Inspired Computation. **Impact factor 3.5** (Clarivate Analytics) Vol.24 No.1, pp.1-11, 2024.

3. **Amit Kumar**: "Genetic Whale Optimization Algorithm for Solving Travelling Salesman Problem" International Journal of Artificial Intelligence and Soft Computing. Accepted and in press, Vol. 8, No. 2, pp 109-128, July 2024.

4. Amit Kumar: "Materialized Views Selection using Ant Lion Optimizer", International Journal of Intelligent Information and Database Systems. **(Scopus)**

5. **Amit Kumar** and T.V. Vijay Kumar:" Materialized View Selection Using Swap Operator Based Particle Swarm Optimization," International Journal of Distributed Artificial Intelligence, Volume 13, Issue 1,pp. 58-73, January-June 2021, DOI: 10.4018/ijdai.2021010103, ISSN: 2637-7888

6. **Amit Kumar** and T.V. Vijay Kumar:" Materialized View Selection Using Self-Adaptive Perturbation Operator based Particle Swarm Optimization," International Journal of Applied Evolutionary Computation Volume 11, Issue 3, pp. 50-67, 2020, ISSN: 1942-3594, DOI: 10.4018/ijaec.2020070104

7. **Amit Kumar** and T.V. Vijay Kumar: ""Materialized View Selection using Set Based Particle Swarm Optimization,", International Journal of Cognitive Informatics and Natural Intelligence (IJCINI), Vol. 12, Issue 3, pp.18-39 (22 pages), 2018, DOI: 10.4018/IJCINI.2018070102, ISSN: 1557-3958, EISSN: 1557-3966. **(ESCI, Scopus) Impact Factor 0.9.**

8. **Amit Kumar** and T.V. Vijay Kumar: "Improved Quality View Selection for Analytical Query Performance Enhancement using Particle Swarm Optimization", International Journal of Reliability, Quality and Safety Engineering, Vol. 24, Issue 6 (2017), (16 pages), https://doi.org/10.1142/S0218539317400010, ISSN (print): 0218-5393, ISSN (online): 1793-6446. **(ESCI, Scopus) Impact Factor 0.8.**

9. Rahul Singh, **Amit Kumar** and T.V. Vijay Kumar: "Distributed query plan generation using multi-objective ant colony optimization", International Journal of Artificial Intelligence and Soft Computing-Inderscience Publisher, Vol. 5, Issue 3,

pp.241-262, 2016, https://doi.org/10.1504/IJAISC.2016.078528, Print ISSN: 1755-4950, Online ISSN: 1755-4969. **(UGC CARE List)**

10. **Amit Kumar**, Rahul Singh and T.V. Vijay Kumar: "Distributed Query Plan Generation using Multi-Objective Particle Swarm Optimization", International Journal of Collaborative Intelligence-Inderscience Publisher, Vol. 1, Issue 2, pp. 85-114, 2015, https://doi.org/10.1504/IJCI.2015.071218, Print ISSN: 2051-7122, Online ISSN: 2051-7130.

11. T.V. Vijay Kumar, Rahul Singh and **Amit Kumar**: "Distributed Query Plan Generation using Ant Colony Optimization", International Journal of Applied Metaheuristic Computing, Vol. 6, Issue 1, pp. 1-22, 2015, DOI: 10.4018/ijamc.2015010101, ISSN: 1947-8283, EISSN: 1947-8291 **(ESCI, Scopus)**. **Impact Factor 0.7.**

12. T.V. Vijay Kumar, **Amit Kumar** and Rahul Singh: "Distributed Query Plan Generation using Particle Swarm Optimization", International Journal of Swarm Intelligence Research, Vol. 4, Issue 3, pp. 58-82, July-September 2013, DOI: 10.4018/ijsir.2013070104, ISSN: 1947-9263, EISSN: 1947-9271 **(ESCI, Scopus)**. **Impact Factor 1.1.**

13. Mohit Verma and Amit Kumar: "A Brief Review of Application of Whale Optimization Algorithm to the Optimization Problems of Mechanical and Production Engineering", International Journal of pure and applied mathematics Volume 119 No. 18 2018, 1953-1960

INTERNATIONAL CONFERENCES

1. Amit Kumar and T.V. Vijay Kumar: "Materialized View Selection using Exchange Function based Particle Swarm Optimization", 3rd International Conference on Computational Intelligence & Communication Technology (CICT), Ghaziabad, India, 9-10 Feb. 2017, DOI: 10.1109/CIACT.2017.7977364, Electronic ISBN: 978-1-5090-6218-8, Print on Demand(PoD) ISBN: 978-1-5090-6219-5. **(IEEE Xplore)**

2. Amit Kumar and T.V. Vijay Kumar: "Materialized View Selection using Genetic Operator based Particle Swarm Optimization", International Conference on Inventive Systems and Control (ICISC), Coimbatore, India, 19-20 Jan. 2017 DOI: 10.1109/ICISC.2017.8068675, Electronic ISBN: 978-1-5090-4715-4, Print on Demand(PoD) ISBN: 978-1-5090-4716-1.**(IEEE Xplore)**

3. Sumit Kumar and Amit Kumar:" A brief review on antlion optimization algorithm" International Conference on Advances in Computing, Communication Control and Networking (ICACCCN2018) ISBN:978-1-5386-4119-4/18.**(IEEE Xplore)**

CHAPTERS IN BOOK

1. T.V. Vijay Kumar, **Amit Kumar** and Biri Arun: "Cuckoo Search Based View Selection", Emerging Research in Computing, Information, Communication and Applications. ERCICA 2016. Springer, Singapore, Chapter No.: 30, DOI: https://doi.org/10.1007/978-981-10-4741-1_30, Print ISBN 978-981-10-4740-4, Online ISBN 978-981-10-4741-1.

2. Amit Kumar: "Application of nature-inspired computing paradigms in optimal design of structural engineering problems—a review" Nature-Inspired Computing Paradigms in Systems. https://doi.org/10.1016/B978-0-12-823749-6.00010-6 Elsevier Inc. ISBN: 978-0-12-823749-6, 2021, Pages 63-74.

INVITED TALKS

- Delivered expert lecture on Nature-Inspired Metaheuristics for Optimization Problems in One-Week Workshop on Advances in Emerging Technologies in Department of Computer Science & Engineering, KNIT Sultanpur from December 5th -10th 2025.
- Delivered talks on Particle Swarm Optimization in workshop entitled Bio-Inspired Optimization Techniques held in Computer Science and Engineering Department of Bharti Vidyapeeth College of Engineering New Delhi on 20th April 2017.

- Presented a Technical seminar on LEX SCANNER dated 20th December 2013 under Faculty Development Program on "Use of Open Source Softwares in Course Curriculum" organized by Department of Computer Science & Engineering during 16 Dec 2013- 20 December 2013.

ACADEMIC ACHIEVEMENTS

- Qualified GATE-2016(93.44Percentile), GATE-2012(95.03Percentile), GATE-2009(98.43 Percentile)

- Qualified UGC-NET exam in Dec-2012, Dec-2013 & Dec-2015

- Qualified FATE-2016 (Conducted by AKTU, Lucknow) with Grade A+

WORKSHOP/ CONFERENCE ORGANIZED

S. No.	Title	Role	Place	Duration	
				From	To
1.	Two Week National Workshop on Ethical Hacking and Cyber Security	Convener	Rajkiya Engineering College Ambedkar Nagar	06/06/2019	15/06/2019
2.	Four Week Summer Internship on Python, Android and WSN Optimization using MATLAB	Convener	Rajkiya Engineering College Ambedkar Nagar	17/06/2019	13/07/2019
3.	International Conference on Advances in Computer Engineering and Applications' (ICACEA-2014	Coordinator (Session Organizer)	IMS Engineering College, Ghaziabad	15/02/2014	15/02/2014
4	Short Term Course on Next Generation Wireless Networks	Convener	REC Ambedkar Nagar	29/04/2019	03/05/2019

WORKSHOP/ FDP ATTENDED

S. No.	Title of Seminar/ Workshop/FDP	Place	Duration	
			From	To
1.	NPTEL-AICTE Faculty Development Program on Practical Cyber Security for Cyber Security Practitioners	Online	July 2025	October 2025
2.	NPTEL-AICTE Faculty Development Program on Deep Learning	Online	July 2019	October 2019
3.	NPTEL-AICTE Faculty Development Program on Optimization for machine learning: Theory and Implementation	Online	July 2019	October 2019

4.	NPTEL-AICTE Faculty Development Program on Problem Solving through Programming in C	Online	July 2019	October 2019
5.	National Workshop on " Ethical Hacking and Cyber Security (EHCS-2019)	Rajkiya Engineering College Ambedkar Nagar	06/06/2019	15/06/2019
6.	NPTEL-AICTE Faculty Development Program on Problem Solving through Programming in C	Online	July 2019	October 2019
7.	NPTEL-AICTE Faculty Development Program on Theory of Computation	Online	July 2019	September 2019
8.	AICTE sponsored QIP short term course on "Machine Learning and its Applications"	Department of Computer Science and Engineering IIT Roorkee	09.07.2018	13.07.2018
9.	Special summer workshop on Active Learning, Autonomy, Academic Governance and R & D	IIT Roorkee	25/06/2018	29/06/2018
10.	FDP on Android Skilling	Department of Information Technology KIET Group of Institutions, Ghaziabad.	27/03/2017	31/03/2017
11.	FDP on Institutional Programme Accreditation (NBA Guidelines) and Quality Management	NITTTR	29/08/2016	02/09/2016
12.	AICTE recognized Short Term Course on Instructional Planning & Delivery conducted by Education and Educational Management Department	NITTTR	25/01/2016	29/01/2016
13.	AICTE recognized Short Term Course on Instructional Planning & Delivery conducted by Education and Educational Management Department	NITTTR	11/05/2015	15/05/2015

DECLARATION

I hereby declare that the information given above is true to the best of my knowledge and belief.

Amit Kumar