

## Curriculum Vitae

### AMIT KUMAR

Assistant Professor

Department of Information Technology

Rajkiya Engineering College Ambedkar Nagar

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### EDUCATION

PhD(Submitted) School of Computer of Systems Sciences, Jawaharlal Nehru University, New Delhi

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%

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### 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
- Compiler Design
- Computer Graphics
- Soft Computing

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### 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 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, January-June 2021, DOI: 10.4018/ijdai.2021010103, ISSN: 2637-7888
2. **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, Pages: 18, 2020, ISSN: 1942-3594, DOI: 10.4018/ijaec.2020070104
3. **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**)
4. **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**)
5. 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
6. **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.
7. 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**).
8. 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/ijdir.2013070104, ISSN: 1947-9263, EISSN: 1947-9271 (**ESCI, Scopus**).

9. 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/CICT.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](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

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## **INVITED TALKS**

- 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 20<sup>th</sup> 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

### WORKSHOP/ FDP ATTENDED

S.	Title of Seminar/ Workshop/FDP	Place	Duration
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No.			From	To
1	National Workshop on “ Ethical Hacking and Cyber Security (EHCS-2019)	Rajkiya Engineering College Ambedkar Nagar	06/06/2019	15/06/2019
2	NPTEL-AICTE Faculty Development Program on Problem Solving through Programming in C	Online	July 2019	October 2019
3	NPTEL-AICTE Faculty Development Program on Theory of Computation	Online	July 2019	September 2019
4	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
5	Special summer workshop on Active Learning, Autonomy, Academic Governance and R & D	IIT Roorkee	25/06/2018	29/06/2018
6	FDP on Android Skilling	Department of Information Technology KIET Group of Institutions, Ghaziabad.	27/03/2017	31/03/2017
7	FDP on Institutional Programme Accreditation (NBA Guidelines) and Quality Management	NITTTR	29/08/2016	02/09/2016
8	AICTE recognized Short Term Course on Instructional Planning & Delivery conducted by Education and Educational Management Department	NITTTR	25/01/2016	29/01/2016
9	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**