

Faculty Profile



Name: GAUTAM KUMAR

Designation: Assistant Professor

Teaching Areas: Data Structure & Algorithms, Advance Data Structure, Design & Analysis of Algorithms, Computer Architecture, Compiler Construction, Logic & Functional Programming, Operating System, Discrete Mathematics, Artificial Intelligence

Research Interests: Cryptography, Information Security, Data Structure, Design and Analysis of Algorithms.

Education:

- (PhD), Jaypee University of Information Technology, Wagnaghat, Himachal Pradesh, INDIA- [Thesis Submitted]
- M. Tech [Computer Science & Engineering]: Rajasthan Technical University, Kota, INDIA [2012].
- B.E [Computer Science & Engineering]: Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, INDIA [2005].

Professional Experience

- 2016- till date: Faculty of Science & Technology, IFHE, Hyderabad
- 2013 – 2016: Research Scholar, Jaypee University of Information Technology, Wagnaghat, Himachal Pradesh, INDIA.
- 2009 -2013: Alwar Institute of Engineering & Technology, North Extension, MIA, Alwar, Rajasthan, INDIA.
- 2006-2009: Institute of Engineering & Technology, North Extension, MIA, Alwar, Rajasthan, INDIA.

Research / Selected Publications:

1. Gautam Kumar and Hemraj Saini, "Novel Noncommutative Cryptography Scheme using Extra Special Group," Security and Communication Networks, John Wiley & Sons, Vol. 2017, Issue 5, pp. 1-21, January 2017.
2. Gautam Kumar and Hemraj Saini "Secure and Robust Telemedicine using ECC on Radix-8 with Formal Verification," International Journal of Information Security and Privacy, IGI Global Publishing, USA. [Accepted: 19 Aug 2016]
3. Gautam Kumar and Hemraj Saini "Effective Signcryption Approach for Secure Convention for Multilayer Consensus using ECC," International Journal of Security and its Applications, Science & Engineering Research Support Society, Vol. 10, No. 7, pp. 287-306, 2016.
4. Gautam Kumar and Hemraj Saini, "Reduced Precomputed Scalar Multiplication Cost for ECC" International Journal of Contemporary Engineering Sciences, Hikari Ltd., Vol. 9, No. 18, pp. 897-904, 2016.

5. Gautam Kumar, Pratap Singh Patwal and Yogesh Gupta, "Performance Optimization using Fuzzy Modular Arithmetic in Short-Memory Scalar Multiplication for Koblitz Curve," International Journal of Advances in Engineering Sciences, Vol. 1, Issue 1, January 2011.

Book Chapter

- (i) Gautam Kumar and Hemraj Saini, "Formal Verification on Signcrypton Re-Cryptography: Secure and Efficient Approach towards Trust Problem" Advanced Engineering Research and Applications, (Ed.) Hongseok Choi, Ch. 6, pp. 99-118, 2017. ISBN: 978-93-84443-42-9.