

ATANU MONDAL

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Research interests: VANET, Security issues in Network, Computational biology, Blockchain

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Educational Qualification:

B.Sc (HONS) in Computer Science, Calcutta University, 2004.

M.Sc in Computer & Information Science, Calcutta University, 2006.

M.Tech in Computer Science & Engineering, Calcutta University, 2008.

Ph.D (Engineering), Indian Institute of Engineering Science and Technology, 2018 (Department of Computer Science and Technology, under the supervision of Prof. Sulata Mitra).

Professional Experience:

Assistant Professor in Department of Computer Science & Engineering, Camellia Institute of Technology, Madhyamgram, 2008-2016.

Guest Lecturer in Department of Computer Science, Dum Dum Motijheel College, 2008-2011.

Guest Lecturer in MCA, SMU, Kakurgachi, 2008-2009.

Guest Lecturer in Department of Computer Science, Acharya Prafulla Chandra College, New Barrackpore, 2011-2016.

Publication:

1. **A.Mondal** and S.Mitra, "Identification, Authentication and Tracking Algorithm for Vehicles using VIN in Centralized VANET", International Conference of Communication, Network and Computing (CNC), proceedings published by Springer LNICST, vol.108, pp. 115-120, 2012.
2. S.Mitra and **A.Mondal**, "Identification, Authentication and Tracking Algorithm for Vehicles using VIN in Distributed VANET", International Conference on Advances in Computing, Communications and Informatics (ICACCI), proceedings published in ACM digital library, pp.279-286, 2012.
3. S. Mitra and **A. Mondal**, "VIN Based Vehicle Authentication in VANET", CCSN 2013, pp. 191-197.
4. **A. Mondal** and S.Mitra, "Detection and Revocation of Misbehaving Vehicles from VANET", International Conference on Communication and Computer Engineering (ICOCOE 2014), Lecture notes in Electrical Engineering, vol.315, Chapter 72, pp. 767-778, 2015.

5. S. Mitra and **A. Mondal**, "Joint Congestion Control Strategy during V2V Communication among Authentic Vehicles in VANET", *Wireless Personal Communication*, Springer, vol.79, issue no. 1, pp.43-67, 2014.
6. **A. Mondal** and S. Mitra, "Dynamic and Distributed Channel Congestion Control Strategy in VANET", *IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, proceedings published in *IEEE Xplore*, pp. 1697-1703, 2014.
7. **A. Mondal** and S. Mitra, "TDHA: A Timestamp Defined Hash Algorithm for Message Authentication in VANET", *International Conference on Computational Modelling and Security (CMS)*, proceedings published by Elsevier in the *Procedia Computer Science Journal* (ISSN: 1877-0509), vol. 85, pp. 190-197, 2016.
8. **A. Mondal** and S. Mitra, "TDMAC: A Timestamp Defined Message Authentication Code for Secure Data Dissemination in VANET", *IEEE International Conference on Advanced Networks and Telecommunication Systems*, proceedings will be published in *IEEE Xplore*, 2016.
9. S. Mitra and **A. Mondal**, "Secure Inter-Vehicle Communication - A Need for Evolution of VANET Towards IoV", Chapter of the book "IoT: Connectivity Frameworks of Smart Devices", pp. 63-96, Chapter 4, 2016, Springer.
10. B. Bhabani, **A. Mondal**, S. Mitra, "A Demand Based Unicast Data Dissemination Scheme in VANET", *Annual IEEE India Conference*, 2015.
11. **A. Mondal** and S. Mitra, "Secure Data Dissemination in VANET – Apull Based Approach", *International Conference on Communication, networks and Satellite*, IEEE, pp. 66-73, 2015.
12. **A. Mondal** and S. Mitra, "Revocation of Misbehaving Vehicles during Data Dissemination among Connected Vehicles in VANET", *IEEE Region 10 Symposium (TENSYP)*, 2017.
13. **A. Mondal** and S. Mitra, "Low Overhead Watermark Based Vehicle Revocation Scheme in Vehicular Ad Hoc Network", *International Journal of Computer and Information Engineering*, vol. 12, no. 5, 2018.
14. **A. Mondal** and S. Mitra, "Extending Security Horizon through Identification Authentication and Tracking Services in Hierarchical Vehicular Networks", *International Journal of Computers and Electrical Engineering*, Elsevier, 2018.
15. **A. Mondal**, "Some Security Issues and Safety Enhancement in Vehicular Ad Hoc Network", *IEST, Shibpur*, 2018.
16. **A. Mondal**, "Detection of Fabrication, Replay and Suppression Attack in VANET – A Database Approach", *Commission for Scientific and Technical Terminology, MHRD, Govt. of India*, 2018.
17. **A. Mondal** and M. Jana, "Detection of Fabrication, Replay and Suppression Attack in VANET", *Proceedings of conference on Advancement in Computation, Communication and Electronics Paradigm*, RKMV, Howrah, India, 2019.
18. **A. Mondal** and S. Mitra, "Security Issues in Vehicular Ad Hoc Networks for Evolution Towards Internet of Vehicles", *Connected Vehicles in the Internet of Things: Concepts, Technologies and Frameworks for the IoV*, Springer, 2020.
19. D. Sarkar, **A. Mondal** and S. Roy, "An In Silico Approach to Investigating the Anti-Breast Cancer Activity of the Plant Genus *Spatholobus*", *Science Archives*, ISSN: 2582-6697, vol. 3, pp. 228-234, 2022.