

BRIEF CURRICULUM VITAE

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Academic Qualification: B.E., M.Tech., Ph.D.
Ph.D. Thesis Title: IP Level Mobility Management for Vehicular Networks

Publications: <http://scholar.google.co.in/citations?user=boAHUj0AAAAJ&hl=en>

International Journal

1. **Arun Prakash**, Rajesh Verma, Rajeev Tripathi, and Kshirasagar Naik, "A Seamless handover Scheme for Vehicles across Heterogeneous Networks," International Journal of Communication Networks and Distributed Systems (IJCNDs), Inderscience, UK, ISSN: 1754-3924, Vol. 8, Nos. 1/2, 2012, pp. 4—23, DOI: 10.1504/IJCNDs.2012.044320.
2. **Arun Prakash**, Sarsij Tripathi, Rajesh Verma, Neeraj Tyagi, Rajeev Tripathi, and Kshirasagar Naik, "Vehicle Assisted Cross layer handover scheme in NEMO based VANETs (VANEMO)," International Journal of Internet Protocol Technology (IJIPT) Inderscience, UK, ISSN: 1743-8217, Vol. 6, Nos. 1/2, 2011, pp. 83—95, DOI: 10.1504/IJIPT.2011.040617.
3. **Arun Prakash**, Rajesh Verma, Rajeev Tripathi, and Kshirasagar Naik, "Extended Mobile IPv6 Route Optimization for Mobile Networks in Local and Global Mobility Domain," International Journal of Mobile Computing and Multimedia Communications (IJMCMC), IGI Global, USA, ISSN: 1937-9412, Vol. 2, Issue 2, pp.1--7, DOI: 10.4018/jmcmc.2010040101.
4. Rajesh Verma, **Arun Prakash**, Rajeev Tripathi, and Neeraj Tyagi, "Improving Throughput of Starved TCP Flow by Sidestepping Bottleneck Nodes Using Concurrent Transmission," International Journal of Mobile Computing and Multimedia Communications (IJMCMC), IGI Global, USA, ISSN: 1937-9412, Vol. 2, Issue 1, pp.68--83, DOI: 10.4018/jmcmc.2010103004.
5. **Arun Prakash**, Rajesh Verma, Ajay Singh Raghuvanshi, and Rajeev Tripathi, "IP Level Mobility Management Schemes for Mobile Networks: A Survey," International Journal of Mobile Communications (IJMC), Inderscience, UK, ISSN: 1741-5217(under review).
6. Ashok K. Shankhwar, Sachin Sharma, **Arun Prakash** and Rajeev Tripathi, "Fast Converging Generalized Turbo Decoding Scheme with Enhanced Throughput for Mobile Radio," Communication and Network, SCIRP, USA, ISSN: 1949-2421 (Accepted for Publication)
7. M. Iftekhhar, Ashok K. Shankhwar, **Arun Prakash**, and Rajeev Tripathi, "Performance Evaluation of Adaptive Modulation Based MC-CDMA System," Wireless Engineering and Technology, SCIRP, USA, ISSN: 2152-2294 (Accepted for Publication)

International Conference

1. **Arun Prakash**, Sarsij Tripathi, Rajesh Verma, Neeraj Tyagi, Rajeev Tripathi, and Kshirasagar Naik, "A Cross layer Seamless Handover Scheme in IEEE 802.11p based Vehicular Networks," 3rd International Conference on Contemporary Computing, 'IC3-2010,' Noida, India, 9-11 August, 2010, Volume 95, Part 2, pp. 84-95, DOI: 10.1007/978-3-642-14825-5_8 (**LNCS, Springer**).

2. Rajesh Verma, **Arun Prakash**, Rajeev Tripathi, and Neeraj Tyagi, "A Novel MAC Protocol for MANETs using Smart Antenna System," Proceedings of International Conference on Power, Control and Embedded Systems ICPCES-2010, MNNIT, Allahabad, India, 29 Nov-01 Dec, 2010, pp. 1-6, DOI: 10.1109/ICPCES.2010.5698676 (**IEEE Xplore**).
3. Rajeesh Verma, **Arun Prakash**, Rajeev Tripathi, and Neeraj Tyagi, "A Hybrid Wireless Ad-hoc Network Model for Critical Services," Proceedings of Sixth IEEE Conference on Wireless Communication and Sensor Networks, WCSN-2010, IIIT, Allahabad, India, 15-19 Dec, 2010, pp. 1-6, DOI: 10.1109/WCSN.2010.5712283 (**IEEE Xplore**).
4. **Arun Prakash**, Rajesh Verma, Rajeev Tripathi, and Kshirasagar Naik, "Multiple Mobile Routers based Seamless Handover Scheme for Next Generation Heterogeneous Networks," Proceedings of First International Conference on Networks & Communications, 'NetCoM-2009,' Chennai, India, 27-29 December, 2009, pp.72-77, DOI: 10.1109/NetCoM.2009.40 (**IEEE Xplore**).
5. **Arun Prakash**, Rajesh Verma, and Rajeev Tripathi, "Network Mobility (NEMO) Handover for Vehicles across Heterogeneous Networks," Proceedings of 12th International Conference on Information Technology, 'ICIT-2009,' Bhubaneswar, India, 21-24 December, 2009, pp.218-222 (**McGraw Hill**).
6. **Arun Prakash**, Rajesh Verma, Rajeev Tripathi, and Kshirasagar Naik, "A Mobile IPv6 based Route Optimization Scheme for Mobile Networks," Proceedings of 'IEEE INDICON-2009,' DA-IICT, Gandhi Nagar, India, 18-20 December, 2009, pp.547-550, DOI: 10.1109/INDCON.2009.5409471 (**IEEE Xplore**).
7. **Arun Prakash**, Rajesh Verma, Rajeev Tripathi, and Kshirasagar Naik, "Extended Mobile IPv6 Route Optimization in Nested Mobile Networks," Proceedings of Fifth IEEE Conference on Wireless Communications and Sensor Networks, 'WCSN-2009,' IIIT, Allahabad, India, 15-19 December, 2009, pp.150-155, DOI: 10.1109/WCSN.2009.5434791 (**IEEE Xplore**).
8. Rajesh Verma, **Arun Prakash**, Neeraj Tyagi, and Rajeev Tripathi, "Throughput enhancement of starved TCP Flow Through concurrent transmission," Proceedings of Fifth IEEE Conference on Wireless Communication and Sensor Networks, 'WCSN-2009,' IIIT, Allahabad, India, 15-19 December, 2009, pp.199-203, DOI: 10.1109/WCSN.2009.5434784 (**IEEE Xplore**).
9. Rajesh Verma, **Arun Prakash**, Rajeev Tripathi, and Neeraj Tyagi, "Throughput Enhancement of Multi-hop Static Ad-hoc Networks through Concurrent Transmission," Proceedings of First International Conference on Intelligence, Communication systems and Networks, CICSYN-2009, Indore, India, 23-25 July, 2009, pp.482-485, DOI: 10.1109/CICSYN.2009.70 (**IEEE Xplore**).
10. **Arun Prakash**, Rajesh Verma, and Rajeev Tripathi, "Vehicular Ad Hoc Networks (VANETs): Mobility Modeling and Simulation Study," Proceedings of International Conference on Advance Computing, 'ICAC 2009,' BUTP, Tiruchirapalli, India, 6-8 August, 2009.
11. **Arun Prakash** and Rajeev Tripathi, "Vehicular Ad Hoc Networks toward Intelligent Transport Systems," Proceedings of 'TENCON-2008,' *IEEE Region 10 International Conference*, Hyderabad, India, 19-21 November, 2008, pp.1-6, DOI: 10.1109/TENCON.2008.4766817 (**IEEE Xplore**).
12. **Arun Prakash**, and Rajeev Tripathi, "Routing Strategies for Vehicular Ad Hoc Networks (VANETs)," Proceedings of 'MNGSA-2008,' Proceedings of International Conference on Managing Next Generation Software Applications 08, Karunya university, Coimbatore, India, 5-6 December, 2008.
13. A. K. Shankhwar, **A. Prakash** and R. Tripathi, "Study and Performance of Adaptive Modulation for Wireless Fading Channel," Proceedings of International Conference on Electronics, Communication and Instrumentation, ICECI-2012, Jhansi, India, 6-7 April, 2012 pp. 400-405.
14. A.S. Raghuvanshi, **A. Prakash**, S. Tiwari, and R. Tripathi, "Distributed Sensor Data Fault detection and its Classification in Wireless Sensor Networks," 7th International Conference on Wireless Communication and Sensor Networks, 'WCSN-2011, I.I.T. Allahabad, India, 5-9 December, 2011.

Book

Co-author of the book titled 'Digital Principles – Switching Theory', Published By – 'New Age International Publisher' (2006), Second Edition.

Awards & Recognition

1. 'Canadian Commonwealth Scholarship' that comes under Government of Canada Awards (GCA), and visited **University of Waterloo (UoW)** for six months (**Sep 1 2008 to Feb 28 2009**).
2. Listed in **Marquis Who's Who in Science and Engineering** 2011-2012 (11th Edition)

Area of Interest

1. Wireless & Mobile Communication
2. Analog and Digital Communication
3. Ad Hoc Networks and Mobility Management

Work Experience:

1. Presently working as Asst. Professor at MNNIT, Allahabad, India (since 16-10-2012)
2. Worked as Lecturer at Indian Institute of Information Technology, Allahabad, India (10-06-2010 to 15-10-2012)
3. Worked as Lecturer at Northern India Engineering College (B.B.D.G.E.I.), Lucknow, India (24-07-2001 to 30-06-2006)

Subjects Taught

A. At UG Level:

1. Wireless Communications
2. Data Communications and Networks
3. Digital Communications
4. Analog Communications
5. Signals and Systems
6. Digital Electronics

B. At PG Level:

1. Wireless Transmission
2. Media Access in Wireless Networks
3. Data Communication and Networks
4. Signaling and Communication

Professional Membership

1. Member - IEEE (No. 90312339) - USA
2. Member – IET (No. 1100204586) - UK
3. Member - International Association of Engineers, IAENG (No. 103318) - U.K.
4. Associate Member - Institution of Electronics & Telecommunication Engineers, IETE (No. AM 177695) - India