

CURRICULUM VITAE

Asis Nasipuri, Associate Professor

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EDUCATION:

Ph.D., Electrical & Computer Engineering, University of Massachusetts, Amherst, MA, 1993.

Master of Science, Electrical & Computer Engineering, University of Massachusetts, Amherst, MA, 1990.

Bachelor of Technology (Honors), Electronics & Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India, 1987.

PROFESSIONAL EXPERIENCE:

- *Associate Professor*, Department of Electrical and Computer Engineering, The University of North Carolina at Charlotte, July 2006 to date.
- *Assistant Professor*, Department of Electrical and Computer Engineering, The University of North Carolina at Charlotte, August 2000 to June 2006.
- *Postdoctoral Fellow*, Division of Computer Science, The University of Texas at San Antonio, May 1998 – August 2000.
- *Assistant Professor*, Electronics & Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India, January 1996 – May 1998.
- *Visiting Lecturer*, Electronics & Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India, November 1993 – December 1995.
- *Teaching Associate, Graduate Research & Teaching Assistant*, Department of Electrical & Computer Engineering, University of Massachusetts, Amherst, September 1997 – August 2003.

RESEARCH INTERESTS:

- *Wireless Sensor Networks*: multi-sensor collaboration, localization, routing, medium access control, experimental testbeds and validation.
- *Wireless Mesh and Mobile Ad Hoc Networks*: routing, inter-layer interactions, medium access control, quality of service.
- *Wireless Communications*: channel characterization and modeling, mitigation of multi-path fading effects, source and channel coding, wireless CDMA.
- *Statistical Communication Theory*: distributed detection, non-parametric detection techniques, multi-stage and sequential detection.

RESEARCH CONTRACTS:

1. “*Scalability and Sustainability Issues of Wireless Mesh Sensor Network for Substation Monitoring*”, supported by the Electric Power Research Institute (EPRI), \$120,354, A. Nasipuri (PI), J. Conrad and R. Cox. September 15 to December 31, 2010.
2. “*Wireless Mesh Sensor Network for Fossil Plants Monitoring*”, supported by the Electric Power Research Institute (EPRI), \$56,779, A. Nasipuri (PI), J. Conrad and R. Cox. February 25 to January 31, 2009.
3. “*Wireless Mesh Sensor Network for Power Systems Monitoring*”, supported by the Electric Power Research Institute (EPRI), \$178,490, A. Nasipuri (PI), I. L. Howitt, and J. Conrad. September 1, 2006 to December 31, 2008.
4. “*CISE Research Resources: Experimental Testbed for Mobile Network Protocols*”, supported by the National Science Foundation (NSF), \$100,000, T. Dahlberg (PI), A. Nasipuri, E. El-Kwae, and G. Ahn, (EIA-013079), Sept. 2001 to February 2005.
5. “*Multi-channel CSMA Protocols*”, NSF subcontract from University of Cincinnati, \$54,784, A. Nasipuri (PI), from grant “*Collaborative Proposal: Protocols for Mobile, Ad Hoc Networks*”, (ANI-9973147), S. R. Das (PI) and A. Nasipuri, University of Texas at San Antonio, \$157,772, Oct. 1999 to Sept. 2003.
6. “*Power Efficient Protocols for Mobile Ad Hoc Networks*”, NSF Research Experience for Undergraduates (REU) supplement, \$14,250, A. Nasipuri (PI), July 2001 to Sept. 2002.
7. “*Development of a Wireless Sensor Network Prototype for Supervision and Control of Bioreactor Landfills*”, supported by the University of North Carolina at Charlotte, \$6000, A. Nasipuri (PI) and V. Ogunro, 2004 – 2005.
8. “*Studies of the Interplay of Source & Channel Coder Parameters for use in Digital Satellite Communications*”, supported by the Indian Space Research Organization (ISRO), Bangalore, India, INR 500,000, Asis Nasipuri (PI), Saswat Chakrabarti and Ranjan Gangopadhyay, March 1998 to Feb 2000, at I.I.T. Kharagpur, India.
9. “*Design of Advanced Wavelength-Routed Optical Networks*”, supported by the European Community, Brussels, 100,000 ECU, Ranjan Gangopadhyay (PI), Asis Nasipuri, and Debashis Datta, August 1996 to July 1998, at I.I.T., Kharagpur, India.
10. “*Development of Tools for Telecommunications Network Planning*”, supported by NORTEL Technologies, Canada, INR 30,000, Debashis Datta (PI), Prabir K. Biswas, and Asis Nasipuri, July 1996 to June 1997, at I.I.T., Kharagpur, India.
11. “*Advanced Radio & Multimedia Communications*”, supported by the All India Council of Technical Education (AICTE), New Delhi, INR 1,400,000, R. V. Rajakumar (PI), Asis Nasipuri, and others, Feb. 1996 to Jan. 1999, at I.I.T., Kharagpur, India.
12. “*System Using Digital FM Linear Modulation with Discriminator Detection*”, supported by the Defense Research & Development Organization (DRDO), New Delhi, India, INR 812,400, Ranjan Gangopadhyay (PI), and Asis Nasipuri, June 1994 – December 1996, I.I.T., Kharagpur, India.

Research Proposals pending review: Total amount of proposed research funding pending review from sponsors: \$1,142,002 as Lead PI, and \$149,995 as co-PI, as of 06/01/2011.

PROFESSIONAL SERVICES AND ACTIVITIES:

- **General Chair**, *MobiHoc'12*, the Thirteenth ACM International Symposium of Mobile Ad Hoc Networking and Computing.
- **Publicity co-chair**, The 18th International Workshop on Local and Metropolitan Area Networks (LANMAN 2011), October 13 – 14, 2011, Chapel Hill, NC.
- **Technical Program Chair**, Workshop on Multi-hop Wireless Networks (MWN'04), held in conjunction with the IEEE International Performance, Computing and Communications Conference (IPCCC), April 14 - 17, 2004, Phoenix, AZ.
- **Member of Editorial Board**, International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), Inderscience Publishers.
- **Member of Technical Program Committee:**
 - IEEE International Conference on Communications (ICC), Ad Hoc and Sensor Networking Symposium, June 2012, Ottawa, Canada.
 - IEEE Conference on Global Communications (Globecom), Ad Hoc and Sensor Networking Symposium, December 2011, Houston, TX.
 - International Conference on Distributed Computing and Networking (ICDCN 2008), 2 - 5 January, 2011, Bangalore, India.
 - IEEE Conference on Global Communications (Globecom), December 2010, Miami, FL.
 - IEEE Southeast Conference, March 2010, Charlotte, NC.
 - High Capacity Optical Networks and Enabling Technologies (HONET) Conference.
 - IEEE Vehicular Technology Conference (VTC 2008-Spring), 11 – 14 May, 2008, Marina Bay, Singapore.
 - International Conference on Distributed Computing and Networking (ICDCN 2008), 5 – 8 January, 2008, Kolkata, India.
 - IEEE International Workshop on performance and Management of Wireless and Mobile Networks, 15 – 18 October, 2007, Dublin, Ireland.
 - ICC Wireless Ad Hoc and Sensor Networks Symposium, 24 – 28 June, 2007, Glasgow, Scotland, UK.
 - International Conference on Distributed Computing and Networking (ICDCN), Indian Institute of Technology, Guwahait, India, December 27 – 30, 2006.
 - IEEE GLOBECOM Wireless Ad Hoc and Sensor Networks – Towards Anytime Anywhere Internetworking Symposium, 2006.
 - International Wireless Communications and Mobile Computing Conference (IWCMC) - Symposium on Next Generation Mobile Networks (NGMN 2006), July 3 – 6, 2006, Vancouver, Canada.
 - The 11th International Conference on Parallel and Distributed Systems (ICPADS-05), July 2005, Japan.
 - First IEEE International Workshop on Performance and Management of Wireless and Mobile Networks, November 2005, Sydney, Australia.

- Symposium on Wireless Sensor Networks (WSN05), June 2005, Hawaii, USA.
- Workshop on Internet Compatible QoS in Ad hoc Wireless Networks (IC-QAWN)*, January 3 – 6, 2005, Cairo, Egypt.
- IEEE International Conference on Computer Communication and Networks (IC3N), 2003, Dallas
- International Workshop on Distributed Computing (IWDC), 2003, Kolkata, India.
- IEEE International Conference on Computer Communication and Networks (IC3N), 2002, Miami
- International Symposium on Communications and Information Technology (ISCIT), October 23 – 25, 2002, Pattaya, Thailand.
- ACM International Workshop on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWIM), September 28, 2002, Atlanta.
- IEEE International Conference on Computer Communication and Networks (IC3N), 2001, Phoenix
- IEEE International Conference on Computer Communication and Networks (IC3N), 2000, Las Vegas.

HONORS AND AWARDS:

1. ***Maxheim Fellowship Award***, 2004 – 2005, William States Lee College of Engineering, UNC Charlotte, \$5000.
2. ***Nominated for Graduate Teaching Excellence award***, William States Lee College of Engineering, 2003.
3. ***National Talent Search*** Scholarship from the National Council of Educational Research & Training, New Delhi, India, 1980 – 1987.

UNIVERSITY SERVICE:

- Director of Graduate Programs, ECE Department (2006 – present)
- University Committee Memberships (UNC Charlotte):
 - Member of *Task Force for Best Practices in Graduate Education* (2010-2011)
 - Member of *Faculty Research Grants Committee* (2008 – 2009)
 - Member of the *Faculty Council* (2003 – 2005)
 - Member of the *Graduate Council* (2002 – 2004)
 - Member of *University Research Computing Steering Committee*, 2003 – 2005.
 - Member of the *Faculty Advisory Library Committee* (2001–2003)
- College Committee Memberships (College of Engineering, UNC Charlotte):
 - Chair of the *Engineering Graduate Committee* (2008 – 2009)
 - *Chair of the Reassignment of Duties Committee* (2004 – 2005)

- Member of the *Academic Policy and Curriculum Committee* (2004 – 2005)
- Member of the *Curriculum Committee* (2004 – 2005)
- Member of the *ECE Chair Search Committee* (2003 – 2004)
- Member of the *Computer Committee* (2000–2002).
- Departmental Committee Memberships (Electrical & Computer Engineering, UNC Charlotte)
 - Chair of Graduate Committee (2006 – present)
 - Member of Awards Committee
 - Member of Seminar committee
 - Member of Publicity Committee
 - Member of the *Strategic Planning Committee* (2004 – 2005)
 - Member of the *Graduate Committee* (2004 – 2005)
 - Member of the *Departmental Tenure and Promotion Review Committee* (2003 – 2004, and 2007 - 2009)
 - *Chair of the Faculty Search Committee* (2000–2002)

PUBLICATIONS:

(Significant citations are indicated below the corresponding papers. Total number of citations of all papers exceeds 2700 at the current time, obtained from Google Scholar.)

Book Chapters:

1. Asis Nasipuri, "Mobile Ad Hoc Networks", in *Handbook of RF and Wireless Technologies*, edited by Farid Dowlal, Newnes (an imprint of Elsevier), pp. 59 – 100, 2004.
2. Asis Nasipuri and Samir R. Das "Multi-channel MAC Protocols for Mobile Ad Hoc Networks", in *Handbook of Wireless and Mobile Computing*, edited by Azzedine Boukerche, Chapman and Hall/CRC Press, pp. 99 – 120, 2006.
3. Asis Nasipuri, "Localization in Wireless Sensor Networks", in *Algorithms and Protocols in Wireless Ad Hoc and Sensor Networks*, edited by Azzedine Bourkerche, ISBN 978-0-471-79813-2, pp. 341 - 364, 2009.

Journal Publications:

1. Amitangshu Pal and Asis Nasipuri, "A Quality based Routing Protocol for Wireless Mesh Networks", accepted for publication in *Pervasive and Mobile Computing*, Elsevier, December 2010.
2. Cyrus Taft, Aaron J. Hussey, Teja Kuruganti, John N. Sorge, and Asis Nasipuri, "Low-Cost Wireless Sensor Can Improve Monitoring in Fossil-Fueled Power Plants", *POWER Magazine*, vol. 154, no. 2, February 1, 2010, pp. 42 – 45.
3. Amitangshu Pal, Sandeep Adimadhyam, and Asis Nasipuri, "QoSBR: A Quality Based routing Protocol for Wireless Mesh Networks", *Springer Lecture Notes in Computer Science, LNCS 5935*, pp. 497-508.

4. Asis Nasipuri, Hadi Alasti, Hojoon Kim, "Efficient Performance of a Robust Filter-based Approach for Contour Detection in Wireless Sensor Networks", *Journal of Korean Institute of Information Technology*, Vol. 6., No. 5., pp. 88 ~ 98 , October, 2008.
5. Asis Nasipuri and Kai Li, "Multi-sensor Collaboration in Wireless Sensor Networks for Detection of Spatially Correlated Signals", (invited paper) *International Journal of Mobile Network Design and Innovation*, vol. 1, no. 3/4, pp. 215-223, 2006.
6. A. Nasipuri and S. R. Das, "Performance of Multi-channel Wireless Ad Hoc Networks", *International Journal of Wireless and Mobile Computing*, Special Issue on Medium Access Control for WLANs, WPANs, Ad Hoc Networks, and Sensor Networks, vol. 1, nos. 3/4, pp. 191-203, 2006.
7. Kai Li and Asis Nasipuri, "Performance of a Collaborative Target Detection Scheme for Wireless Sensor Networks", *Lecture Notes in Computer Science: LNCS 2918*, December 2003, Springer.
8. A. Nasipuri, R. Castaneda, and Samir R. Das, "Performance of Multipath Routing for On-Demand Protocols in Mobile Ad Hoc Networks", *Mobile Networks (MONET) Journal*, Special Issue on Wireless Multicast and Routing Vol. 6, pp. 339 - 349, 2001. **(413 citations)**
9. A. Nasipuri and S. Tantaratana, "Nonparametric Distributed Detector Using Wilcoxon Statistics", *Signal Processing*, Vol. 57, No.2, March 1997, pp. 139-146, Elsevier Press.
10. A. Nasipuri and S. Tantaratana, "Truncated Sequential CFAR Detectors Using Weighted Sign and Weighted Conditional Sign Tests", *Journal of the Franklin Institute*, Vol. 332B, No. 6, pp. 717-734, Elsevier Press, 1995.
11. S. Tantaratana and A. Nasipuri, "Two-stage Wilcoxon Detectors Using Conditional Tests", *IEEE Transactions on Information Theory*, Vol. IT-38, No. 3, pp. 1080-1090, May 1992.

International Peer-reviewed Conference Publications:

1. Amitangshu Pal and Asis Nasipuri, "GSQAR: A Quality Aware Anycast Routing Protocol for Wireless Mesh Networks", Proceedings of *IEEE Global Telecommunications Conference (GLOBECOM)*, December 6 – 10, 2010.
2. A. Nasipuri, R. Cox, J. M. Conrad, L. Van der Zel, B. Rodriguez, and R. McKosky, "Design considerations for a large-scale wireless sensor network for substation monitoring", Proceedings of *IEEE International Workshop on Practical Issues in Building Sensor Network Applications (SenseApp'10)*, pages 882-889, October 14, 2010.
3. Aaron Hussey, Asis Nasipuri, John N. Sorge, and Robert Cox, "Feasibility of Using a Wireless Mesh Sensor Network in a Coal-Fired Power Plant", Proceedings of the *IEEE Southeast Conference (SoutheastCon)*, March 18-21, 2010, pp. 384-389.
4. Rohit Kale, Nripendra Singh, Hadi Alasti, Asis Nasipuri, Robert Cox, James Conrad, Luke Van der Zel, Bienvenido Rodriguez, Ralph McKosky, and Joseph Graziano, "Design and Implementation of a Wireless Node for Advances Sensor Processing and Network Integration", Proceedings of the *IEEE Southeast Conference (SoutheastCon)*, March 18-21, 2010, pp. 390-393.
5. Asis Nasipuri, Hadi Alasti, Priya Puthran, Robert Cox, James Conrad, and Luke Van der Zel, "Vibration Sensing for Equipment's Health Monitoring in Power Substations using

- Wireless Sensors”, Proceedings of the *IEEE Southeast Conference (SoutheastCon)*, March 18-21, 2010, pp. 268-271.
6. Amitangshu Pal and Asis Nasipuri, “A Quality Aware Anycast Routing Protocol for Wireless Mesh Networks”, Proceedings of the *IEEE Southeast Conference (SoutheastCon)*, March 18-21, 2010, pp. 451-454.
 7. Cyrus Taft, John N. Sorge, Aaron J. Hussey, Asis Nasipuri and Teja Kuruganti, “Low-Cost Wireless Sensor Testing in a Fossil Power Plant”, Proceedings of the 19th *ISA POWID/EPRI Controls and Instrumentation Conference*, Chicago, IL, May 12-14, 2009.
 8. Hadi Alasti and Asis Nasipuri, “Spatio-Temporal Monitoring using Contours in Large-scale Wireless Sensor Networks”, Proceedings of the Second *ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FOWANC’09)*, New Orleans, LA, May 18, 2009.
 9. Asis Nasipuri, Robert Cox, Hadi Alasti, Luke Van der Zel, Bienvenido Rodriguez, Ralph McKosky, and Joseph A. Graziano, “Wireless Sensor Network for Substation Monitoring: Design and Deployment”, Proceedings of the *6th ACM Conference on Embedded Networked Sensor Systems (SenSys’08)*, pages 365-366, November 5 – 7, 2008.
 10. Hadi Alasti, William A. Armstrong, and Asis Nasipuri, “Performance of a Robust Filter-based Approach for Contour Detection in Wireless Sensor Networks”, Proceedings of the *16th IEEE International Conference on Computer Communications and Networks (ICCCN’07)*, August 13 – 16, 2007.
 11. T. Cassen, K. R. Subramanian, Jeffrey Alexander, Drew Linderman, and A. Nasipuri. 2007, “A visual learning engine for interactive generation of instructional materials”, *SIGCSE Bull.* 39, 3 (June 2007), 319-319. DOI=10.1145/1269900.1268886 <http://doi.acm.org/10.1145/1269900.1268886>.
 12. Vamsee K. Boda, Asis Nasipuri, and Ivan Howitt, “Design Considerations for a Wireless Sensor Networks for Locating Parking Spaces”, Proceedings of *IEEE SoutheastCon2007*, March 22 – 25, 2007.
 13. Asis Nasipuri and Ribal El Najjar, “Experimental Evaluation of an Angle Based Indoor Localization System”, Proceedings of the *Second IEEE International Workshop on Wireless Network Measurement (WiNMee 2006)*, co-located with *WiOpt 2006*, April 3, 2006, Boston, MA.
(27 citations)
 14. Asis Nasipuri and Kai Li, “Collaborative Detection of Spatially Correlated Signals in Sensor Networks”, Proceedings of the 2005 *International Conference on Telecommunication Systems Modeling and Analysis*, Nov 17-20, Dallas, Texas, ISBN 0-9716253-3-6.
 15. Teresa A. Dahlberg, Asis Nasipuri, and Craig Taylor, “Explorebots: A Mobile Network Experimentation Testbed”, accepted for presentation and publication in the Proceedings of the *ACM Workshop on Experimental Approaches to Wireless Network Design and Analysis (E-WIND)*, August 2005.
(22 citations)
 16. Swapnil Patil, Samir Das, and Asis Nasipuri, “Serial Data Fusion Using Space-filling Curves in Wireless Sensor Networks”, in Proceedings of the *IEEE International Conference on Sensor and Ad Hoc Communications and Networks (SECON 2004)*, October 4-7, 2004.

17. Saurabh Mishra and Asis Nasipuri, "An Adaptive Low Power Reservation Based MAC Protocol for Wireless Sensor Networks", in Proceedings of the *Workshop on Multihop Wireless Networks (MWN)*, held in conjunction with the *IEEE International Performance, Computing, and Communications Conference (IPCCC'04)*, April 15-17, 2004, Phoenix, AZ.
18. Ivan Howitt, Gail-Joon Ahn, Teresa Dahlberg, Asis Nasipuri, Yuliang Zheng, "Context & Environmental Aware Wireless Sensor Networks for Reconfigurable Manufacturing Systems," in Proceeding of the *CIRP 2nd International Conference on Reconfigurable Manufacturing*, August 2003.
19. Asis Nasipuri and Kai Li, "A Directionality based Location Discovery Scheme for Wireless Sensor Networks", in Proceedings of the *First ACM International Workshop on Wireless Sensor Networks and Applications (WSNA'02)*, held in conjunction with *ACM Mobicom'02*, September 28, 2002.
(303 citations)
20. Asis Nasipuri, Kai Li, and Uma Reddy Sappidi, "Power Consumption and Throughput in Mobile Ad Hoc Networks using Directional Antennas", in Proceedings of the *IEEE International Conference on Computer Communication and Networks (ICCCN2002)*, October 14-16, 2002, Miami, Florida.
(107 citations)
21. Kai Li and Asis Nasipuri, "Modeling MAC Performance in Mobile Ad Hoc Network Simulations", in Proceedings of the *Communication Networks and Distributed Systems Modeling and Simulation Conference (CNDS '02)*, January 27-31, 2002, San Antonio, Texas.
22. Nitin Jain, Samir R. Das, and Asis Nasipuri, "A Multichannel CSMA MAC Protocol with Receiver-Based Channel Selection for Multihop Wireless Networks", in Proceedings of the *IEEE International Conference on Computer Communication and Networks (ICCCN2001)*, Phoenix, AZ, October 2001.
(316 citations)
23. Asis Nasipuri, Ryan Burleson, Benjamin Hughes, and Johnny Roberts, "Performance of a Hybrid Routing Protocol for Mobile Ad Hoc Networks", in Proceedings of the *IEEE International Conference on Computer Communication and Networks (ICCCN2001)*, Phoenix, AZ, October 2001.
24. Asis Nasipuri and Samir R. Das, "Multichannel CSMA with Signal Power-Based Channel Selection for Multihop Wireless Networks", in Proceedings of the *IEEE Fall Vehicular Technology Conference (VTC 2000)*, Boston, September 2000.
(148 citations)
25. Asis Nasipuri, Shengchun Ye, and Robert E. Hiromoto, "A MAC Protocol for Mobile Ad Hoc Networks Using Directional Antennas", in Proceedings of the *IEEE Wireless Communications and Networking Conference (WCNC 2000)*, Chicago, September 2000.
(453 citations)
26. Asis Nasipuri, Jothisna Mandava, Hanumantha Manchala, and Robert E. Hiromoto, "On-Demand Routing Using Directional Antennas in Mobile Ad Hoc Networks", in Proceedings of the *IEEE International Conference on Computer Communication and Networks (ICCCN2000)*, October, 2000, Las Vegas.
(103 citations)
27. Sushil Gote, Asis Nasipuri, and Aloknath De, "Source-Aided Error Concealment in Packetized Voice Communication", Proceedings of the *International Conference on*

- Communications, Computers, and Devices (ICCCD-2000)*, Indian Institute of Technology, Kharagpur, India, December 2000.
28. Asis Nasipuri, Jun Zhuang and Samir R. Das, "A Multichannel CSMA MAC Protocol for Multihop Wireless Networks", in Proceedings of the *IEEE Wireless Communications and Networking Conference (WCNC'99)*, New Orleans, September, 1999.
(283 citations)
 29. Asis Nasipuri and Samir R. Das, "On-Demand Multipath Routing for Mobile Ad Hoc Networks", in Proceedings of the *IEEE International Conference on Computer Communication and Networks (ICCCN'99)*, Boston, October, 1999.
(504 citations)
 30. R. Gangopadhyay, Asis Nasipuri, G. Gopalkrishnan, and P. T. Kulkarni, "Transmission Performance of Multiwavelength Ring Networks with Embedded Logical Wheel", Proceedings of the *Asia-Pacific Conference on Communications (APCC/ICCS'98)*, Singapore, November 1998.
 31. Asis Nasipuri and Ranjan Gangopadhyay, "Performance of CPFSK with Fractional-bit Differential Detection in Mobile Fading Channels", Proceedings of the *International Conference on Computers and Devices for Communications (CODEC)*, Science City, Calcutta, India, January 1998.
 32. Asis Nasipuri, R. Gangopadhyay, and Sachin Doshi, "Studies on WDM Ring Networks", Proceedings of the *National Conference on Communications, I.I.T., Powai, Bombay*, January 1998.
 33. K. V. Martin, Asis Nasipuri, and Ranjan Gangopadhyay, "Simulation Studies on DS/SSMA Communication Systems with RAKE Receiver in Mobile Fading Channels", Proceedings of *INCURSI-96*, Burdwan University, India, January 1996.
 34. Asis Nasipuri and Sawasd Tantaratana, "Nonparametric Distributed Detection Using Wilcoxon Statistics", Proceedings of the *Conference on Information Sciences and Systems*, The Johns Hopkins University, March 1993.
 35. Asis Nasipuri and Sawasd Tantaratana, "Some Results on Distributed Detectors Using Wilcoxon Statistics", Proceedings of *30th Annual Allerton Conference on Communications, Controls & Computing*, University of Illinois at Urbana-Champaign, Sept. 1992.
 36. Sawasd Tantaratana and Asis Nasipuri, "Two-stage Wilcoxon Detectors Using Conditional Wilcoxon Tests", Proceedings of the *Conference on Information Sciences & Systems*, Princeton University, NJ, May 1990.

Significant Unrefereed Publications:

1. Asis Nasipuri, K. R. Subramanian, Hilary Inyang, and William Armstrong, "REMS: Remotely Operating Environmental Monitoring System for High-Hazard and Inaccessible Regions", presented at the *International Conference on Energy, Environment and Disasters (INCEED 2005)*, July 2005.
2. Asis Nasipuri, Kalpathi Subramanian, Vincent Ogunro, John L. Daniels, and Helene A. Hilger, "Development of a Wireless Sensor Network for Monitoring a Bioreactor Landfill", to be presented at *Geo Congress 2006*, February 2006.

STUDENTS ADVISED

- Ph.D. Students:
 - Kai Li, December 2002. Dissertation title “Protocols for Mobile Ad Hoc Networks”, The University of North Carolina at Charlotte, 2002.
 - Hadi Alasti, December 2009. Dissertation title “Level Based Sampling Techniques for Energy Conservation in Large Scale Wireless Sensor Networks”.
 - Amitangshu Pal, in progress
 - Ndubueze Chuku, in progress
- M.S. Thesis Students (selected list):
 - Siddharth Kamath, M.S. thesis title “Load Balanced and Energy Aware Routing for Large Scale Wireless Sensor Networks”, May 2011
 - Rohit Kale, M.S. thesis title “Energy Aware Store and Forward Scheme for Rechargeable Sensor Networks”, May 2010
 - Sadeep Adimadhyam, thesis title “QoS based Centralized Routing in Wireless Hybrid Networks”, May 2008
 - Vamsee K. Boda, M.S. thesis title “Vehicle Detection Using Wireless Sensor Networks”, December 2007
 - William R. Armstrong, M.S. thesis title “Localized Contour Detection in Wireless Sensor Networks”, The University of North Carolina at Charlotte, August 2005.
 - Saurabh Mishra, M.S. thesis title “An Adaptive Low Power Reservation Based Medium Access Control Protocol for Wireless Sensor Networks”, The University of North Carolina at Charlotte, December 2003.
 - Uma Reddy Sappidi, M.S. thesis title “Medium Access Control of Mobile Ad Hoc Networks using Directional Antennas”, The University of North Carolina at Charlotte, December 2003.
 - Jai Mondhe, M.S. thesis title “Multichannel MAC Protocol with Cooperative Channel Selection for Ad Hoc Networks”, The University of North Carolina at Charlotte, December 2003.
 - Jun Zhuang, M.S. thesis title “Multi-channel MAC Protocol with Memory based Channel Selection in Multi-hop Wireless Networks”, The University of Texas at San Antonio, 1999.
 - Sushil Gote, Master of Technology thesis title “Software for Evaluation and Design of Joint Source and Channel Coding in Satellite Channels”, Indian Institute of Technology, Kharagur, India, 1997.
 - M. Jayasekhar, Master of Technology thesis title “Performance of Differential Detection on Mobile Wireless Channels”, Indian Institute of Technology, Kharagur, India, 1997.
 - K. V. Martin, Master of Technology thesis title “Performance of DS/SSMA Communication Systems with RAKE Receiver in Mobile Fading Channels”, Indian Institute of Technology, Kharagur, India, 1995.
- M.S. Non-thesis Projects Supervised: more that 15.

Membership in Professional Societies: IEEE, ACM