

## UPKAR VARSHNEY

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Associate Professor  
Department of CIS  
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### **Education**

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- **Ph.D. Computer Science and Telecommunications**  
Department of Computer Science and Electrical Engineering  
School of Computing and Engineering  
University of Missouri-Kansas City, 1995  
Dissertation: Design and Performance Evaluation of Multimedia  
Local Area Network (MLAN) Protocol
- **M.S. Computer Science**  
Department of Computer Science and Electrical Engineering  
School of Computing and Engineering  
University of Missouri-Kansas City, 1992
- **Graduate Work in Electrical/Biomedical Engineering**  
Indian Institute of Technology, Bombay, India, 1988-89
- **Bachelor of Engineering (B.E. Honors) Electrical Engineering**  
University of Roorkee, Roorkee (now Indian Institute of Technology-Roorkee), India, 1988

### **Awards, Honors, Nominations, and Fellowships**

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- Received MS-CIS Faculty Award for Teaching, 2015
- Received RCB College Faculty Recognition Award for Teaching, 2014
- Ranked as the Most Productive Researcher in Mobile Computing in the World: based on 2000-2010 publications in a list of journals (source: *International Journal of Mobile Communications*, vol. 12, no. 2, 2014, 103-141)
- Received IEEE WTS Distinguished Service Award, 2013 (Phoenix, Arizona)
- Received IEEE WTS Distinguished Service Award, 2012 (London, UK)
- Was nominated for the Best Paper Award (in two categories), European Conference on Information Systems, 2011
- Was nominated for RCB College Faculty Recognition Award for Research, 2007-2008
- Was nominated for GSU Faculty Excellence Award, 2007-2008
- Listed among the most productive (top 1%) IS researchers in the World based on publications in 7 journals from Jan. 2001-Dec. 2005 (source: *Communications of the AIS*, vol. 18, pp. 296-328, December 2006)
- Received Myron T. Greene Outstanding Teaching Award, Department of CIS, Georgia State University, Oct. 2004
- Was nominated for College Faculty Recognition Award for Service, 2003
- Received College Faculty Recognition Award for Teaching, 2002
- Was included in "Who's Who in America", 2002
- Was nominated for College Faculty Recognition Award for Teaching, 2000 and 2001
- Received Myron T. Greene Outstanding Teaching Award, Department of CIS, Georgia State University, 2000

- Was nominated for the Best Paper Award by mini-track on the Internet, Hawaii International Conference on Systems Sciences (HICSS), 1998
- Was included in “Who’s Who Among America’s Teachers”, 1998
- Received International Communications Agency’s Telecommunications Scholarship, 1991-93
- Was nominated for the University of Missouri’s Superior Teaching Award by School of Computer Science Telecommunications, 1991-92

## **Work Experience**

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- **Associate Professor (with Tenure):** July 2003-present  
Department of CIS  
Georgia State University, Atlanta
- **Assistant Professor:** August 1998-June 2003  
Department of CIS  
Georgia State University, Atlanta
- **Assistant Professor:** August 1994- May 1998  
Department of CIS  
Washburn University, Topeka
- **Research Associate:** August 1992- May 1994  
Center for Telecomputing Research  
University of Missouri-Kansas City
- **Instructor:** Summer 1990 and summer 1991  
Project First-Upward Bound  
University of Missouri-Kansas City

## **Publications: Refereed Scholarly Journals**

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(Several papers under review, revise and resubmit, and 2<sup>nd</sup> round of review)

1. Ahluwalia, A, Gimpel, G and U. **Varshney**, “ICT Interventions Impacting Big Societal Challenges: An Electronic Healthcare Approach to Homelessness”, accepted, *Int. J. of Electronic Healthcare*
2. Ahluwalia, A, Gimpel, G and U. **Varshney**, “A Consumption Theory and Task-Fitness Perspective of Wireless Internet Adoption for Mobile Commerce”, *International Journal on E-Business*, vol. 12, no. 1, 46-69, 2015
3. **Varshney, U.**, “Mobile Health: Four Emerging Themes of Research”, *Decision Support Systems*, vol. 66, Oct. 2014, 20-35
4. **Varshney, U.**, “A Model for Improving Quality of Decisions in Mobile Health”, *Decision Support Systems*, vol. 62, June 2014, 66-77
5. **Varshney, U.** and N. Singh, “A Framework for Studying Patterns of Effective Medication Adherence”, *International Journal of Interdisciplinary Telecommunications and Networks*, vol. 5, no. 4, 2013, 1-12
6. Cousins, K. and U. **Varshney**, “Mobile Money-A Regulatory Framework”, *Communications of the AIS*, vol. 34, article 75, 2014
7. Ahluwalia, P and U. **Varshney**, “Ubiquitous, Mobile, Pervasive and Wireless Information Systems: Current Research and Future Directions”, *International Journal of Mobile Communications*, vol. 12, no. 2, 2014, 103-141

8. Ahluwalia, A, Gimpel, G and U. **Varshney**, “A Consumption Theory and Task-Fitness Perspective of Wireless Internet Adoption for Mobile Commerce”, Accepted for *International Journal on E-Business*
9. Nickerson, R., U. **Varshney**, and J. Muntermann, “A Method for Taxonomy Development and Its Application in Information Systems”, *European Journal on Information Systems*, vol. 22, no. 3, May 2013, pp. 336-359
10. **Varshney, U.**, “Smart Medication Management System and Multiple Interventions for Medication Adherence”, *Decision Support Systems*, vol. 55, no. 2, May 2013, pp. 538-551
11. Sneha, S. and U. **Varshney**, “A Framework for Enabling Patient Monitoring via Mobile Ad Hoc Networks”, *Decision Support Systems*, vol. 55, no. 1, April 2013, pp. 218-234
12. Maass, W. and U. **Varshney**, “Design and Evaluation of Ubiquitous Information Systems and Use in Healthcare”, *Decision Support Systems*, vol. 54, no. 1, Dec. 2012, pp. 597-609
13. Gimpel, G., P. Ahluwalia, and U. **Varshney**, “The Wireless Internet Decision: A Multi-method Investigation of Decision Drivers”, *International Journal of Mobile Communications*, vol. 10, no. 5, August 2012, pp. 449-474
14. Ahluwalia, P., G. Gimpel, and U. **Varshney**, “Why People aren’t Using Wireless Internet: A Behavioral Economics Approach to Technology Preferences”, *International Journal of Services and Standards*, vol. 6, no. 3/4, 2010, pp. 271-294
15. Sneha S. and U. **Varshney**, “Enabling Ubiquitous Patient Monitoring: Model, Decision Protocols, Opportunities and Challenges”, *Decision Support Systems*, vol. 46, no. 3, February 2009, pp. 606-619
16. Ahluwalia P. and U. **Varshney**, “Composite Quality of Service and Decision Making Perspectives in Wireless Networks”, *Decision Support Systems*, vol. 46, no. 2, January 2009, pp. 542-551

**(2008-and-before)**

17. **Varshney, U.** “Managing Transactions in Group-oriented Mobile Commerce Services”, *Decision Support Systems*, vol. 46, no. 1, December 2008, pp. 356-365
18. **Varshney, U.** “A Framework for Supporting Emergency Messages in Wireless Patient Monitoring”, *Decision Support Systems*, vol. 45, no. 4, November 2008, pp. 981-996
19. Dharmaraja, S., V. Jindal and U. **Varshney**, “Analytical Modeling for Reliability Evaluation of 3G Wireless Networks”, *IEEE Transactions on Network and Systems Management*, vol. 5, no. 3, Sept. 2008, pp. 132-142
20. Walsh, D., K. Passerini, U. **Varshney**, and J. Fjermestad, “Safeguarding Patient Privacy in Electronic Healthcare in the USA: the Legal View”, *International Journal on Electronic Healthcare*, vol. 4, no. 3-4, 2008, pp. 311-326
21. Malladi S., and U. **Varshney**, “Design and Application of a Health Insurance Portability and Accountability Act-compliant Privacy Framework for Pervasive Healthcare”, *International Journal of Mobile Communications*, April 2008, vol. 6, no. 4, pp. 499-518
22. Shim, J. P., U. **Varshney**, S. Dekleva, and R. Nickerson, “Wireless Telecommunications Issues: Cell Phone TV, Wireless in Disaster Management, Ubiquitous Computing and Wireless People”, *Communications of the AIS*, Volume 20, Article 29, September 2007
23. **Varshney, U.** “Pervasive Healthcare and Wireless Patient Monitoring”, *ACM/Springer Journal on Mobile Networks and Applications (MONET)*, vol. 12, no. 2-3, March 2007, pp. 113-127
24. **Varshney, U.**, “Supporting Transactions in Group-oriented Mobile Services”, *IEEE IT-Professional*, Nov.-Dec. 2007, vol. 9, no. 6, pp. 10-15

25. Ahluwalia, P. and **U. Varshney**, "A Framework for Transaction-Level Quality of Service for M-Commerce Applications", *IEEE Transactions on Mobile Computing*, vol. 6, no. 7, July 2007, pp. 848-864
26. **Varshney, U.** and K. Ravikumar, "Simulation-based Evaluation of Transactions Support for Group-oriented Mobile Commerce", *International Journal of Mobile Communications (IJMC)*, vol. 5, no. 5, 2007, pp. 528-539
27. Ahluwalia, P. and **U. Varshney**, "Managing End-to-end Quality of Service in Multiple Heterogeneous Wireless Networks", *International Journal on Network Management*, vol. 17, no. 3, May/June 2007, pp. 243-260
28. **Varshney, U.**, "Supporting Dependable Group-oriented Mobile Transactions: Redundancy-based Architecture and Performance", *International Journal on Network Management*, vol. 17, no. 3, May/June 2007, pp. 219-229
29. Sneha, S. and **U. Varshney**, "A Wireless ECG Monitoring System for Pervasive Healthcare", *International Journal on Electronic Healthcare*, vol. 3, no. 1, 2007, pp. 32-50
30. Shim, J. P., **U. Varshney** and S. Dekleva, "Wireless Evolution 2006: Cellular TV, Wearable Computing, and RFID", *Communications of the AIS*, vol. 18, 2006, pp. 497-518
31. **Varshney, U.** and A. Malloy, "Multilevel Fault-tolerance in Infrastructure-oriented Wireless Networks: Framework and Performance Evaluation", *International Journal of Network Management*, vol. 16, no. 5, Sept. 2006, pp. 351-374
32. Shim, J. P., **U. Varshney**, S. Dekleva, and G. Knoerzer, "Mobile and Wireless Networks: Services, Evolution & Issues", *Int. Journal on Mobile Communications*, Vol. 4, No. 4, 2006, pp. 405-417
33. **Varshney, U.**, "Patient Monitoring using Infrastructure-oriented Wireless LANs", *Int. Journal on Electronic Healthcare*, vol. 2, no. 2, 2006, pp. 149-163
34. **Varshney, U.**, "Using Wireless Technologies in Healthcare", *Int. Journal on Mobile Communications*, vol. 4, no. 3, 2006, pp. 354-368
35. Ahluwalia, P. and **U. Varshney**, "Supporting Quality of Service for Mobile Transactions", *Communications of the AIS*, vol. 16, article 20, 2005
36. **Varshney, U.**, "Vehicular Mobile Commerce: Applications, Challenges, and Research Problems", *Communications of the AIS*, vol. 16, article 15, August 2005
37. **Varshney, U.**, "Pervasive Healthcare: Applications, Challenges and Wireless Solutions", *Communications of the AIS*, vol. 16, article 3, July 2005
38. **Varshney, U.**, "Performance Evaluation of Protocols for Group-oriented Mobile Services", *ACM/Springer Journal on Mobile Networks and Applications (MONET)*, vol. 10, no. 4, pp. 465-474, August 2005
39. **Varshney, U.** "Wireless Networks for Enhanced Monitoring of Patients", *International Journal on Healthcare Technology Management (IJHTM)*, vol. 6, 2005, no. 4/5/6, pp. 489-499
40. AlShaali S., and **U. Varshney**, "On the Usability of Mobile Commerce", *International Journal of Mobile Communications*, vol. 3, issue 1, 2005, pp. 29-37
41. Mathew J., S. Sarker, and **U. Varshney**, "Mobile Commerce: Promises and Challenges", *Communications of the AIS*, Volume 14, Article 26, Nov. 2004
42. Lyytinen K., Y. Yoo, **U. Varshney**, M. Ackerman, G. Davis, M. Avital, D. Robey, S. Sawyer, and C. Sorensen, "Surfing the Next Wave: Design and Implementation Challenges of Ubiquitous Computing", *Communications of the AIS*, Volume 13, Article 40, June 2004

43. **Varshney, U.** "Group-oriented Mobile Services: Requirements and Solutions", *Information Systems and e-Business Management*, vol. 2, no. 4. Oct. 2004, pp. 325-335
44. **Varshney, U., A. Malloy, P. Ahluwalia, and R. Jain,** "Wireless in the Enterprise: Requirements and Solutions", *International Journal of Mobile Communications*, vol. 2, issue 4, 354-367
45. **Varshney, U.,** "Location Management for Mobile Commerce Applications in Wireless Internet", *ACM Transactions on Internet Technologies*, vol. 3, no. 3, August 2003, pp. 236-255
46. **Varshney, U.,** "Mobile and Wireless Information Systems: Applications, Networks and Research Problems", *Communications of the AIS*, vol. 12, article 11, August 2003
47. Andersen, K., A. Fogelgren-Pedersen and **U. Varshney,** "Mobile Organizing using Information Technologies in Government", *Information, Communications and Society*, vol. 6, no. 2, August 2003, pp. 211-228
48. **Varshney, U.,** "Issues, Requirements, and Support for Location-intensive Mobile Commerce Applications", *International Journal of Mobile Communications*, vol. 1, no. 1-2, pp. 91-118, 2003
49. **Varshney, U.,** "Location Management in Broadband Wireless Networks", *International Journal of Mobile Communications*, vol. 1, no. 3, 247-263, 2003
50. **Varshney, U. and R. Vetter,** "Mobile Commerce: Framework, Applications, and Networking Support", *ACM/Kluwer Journal on Mobile Networks and Applications (MONET)*, vol. 7, no. 3, June 2002, pp. 185-198
51. Malloy, A., **U. Varshney,** and A. Snow, "Supporting Mobile Commerce Applications using Dependable Wireless Infrastructure", *ACM/Kluwer Journal on Mobile Networks and Applications (MONET)*, vol. 7, no. 3, June 2002, pp. 225-234
52. Pascoe, J., V. Sunderam, **U. Varshney,** and R. Loader, "Middleware Enhancements for Metropolitan Area Wireless Internet Access", Elsevier *Future Generation Computational Systems*, vol. 18, April 2002, pp. 721-735
53. **Varshney, U.,** "Connection Rerouting for Wireless ATM Networks", *Kluwer Journal of Multimedia Tools and Applications*, vol. 15, no. 2, Nov. 2001, pp. 127-147
54. **Varshney, U.,** "Networking support for Mobile Computing", *Communications of the Association of Information Systems (CAIS)*, vol. 1, no. 1, January 1999, pp. 1-30
55. Agrawal, J. and **U. Varshney,** "Architecture and Performance of MLAN: A Multimedia Local ATM Network Protocol", *SIMULATION Journal, Special Issue on High Performance Networking* (now known as Transactions on Simulation), vol. 64, no. 1, Jan. 1995, pp. 15-26

#### **Publications: Refereed Professional/Practitioner Journals**

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56. Gimpel, G, **U. Varshney,** A. Ahluwalia. Emerging IT for Medication Adherence, accepted for IEEE IT Professional
57. **Varshney, U,** "Smart Medication Management System: Design and Performance Evaluation", *IEEE Computer*, vol. 46, no. 1, Jan. 2013, pp. 71-76
58. **Varshney, U.,** "4G Wireless Networks: Past Vision, Current Reality and Future", *IEEE IT Professional*, vol. 14, no. 5, Sept. 2012, pp. 34-39
59. Dhar, S. and **U. Varshney,** "Challenges and Business Models for Mobile Location-based Services and Advertising", *Communications of the ACM*, vol. 54, no. 5, May 2011, pp. 121-128
60. Cousins, K. and **U. Varshney,** "Designing Ubiquitous Computing Environments to Support Work Life Balance", *Communications of the ACM*, vol. 52, no. 5, May 2009, pp. 117-123

**(2008-and-before)**

61. **Varshney, U.**, “Business Models for Mobile Commerce Services: Requirements, Design, and Future”, *IEEE IT-Professional*, Nov.-Dec. 2008, vol. 10, no. 6, pp. 48-55
62. **Varshney, U.**, “Improving Wireless Health Monitoring using Incentive-based Router Cooperation”, *IEEE Computer*, vol. 41, no. 5, May 2008, pp. 55-62
63. Dekleva, S., J. P. Shim, **U. Varshney**, and G. Knoerzer, “Evolution and Emerging Issues in Mobile Wireless Networks”, *Communications of the ACM*, vol. 50, no. 6, June 2007, pp. 38-43
64. **Varshney, U.**, “Managing Wireless Health Monitoring for People with Disabilities”, *IEEE IT-Professional*, Nov.-Dec. 2006, pp. 12-16
65. **Varshney, U.** and S. Sneha, “Patient Monitoring using Ad Hoc Wireless Networks: Reliability and Power Management”, *IEEE Communications Magazine*, vol. 44, no. 4, April 2006, pp.49-55
66. **Varshney, U.** “Mobile Commerce: Current Status, Challenges and Future”, *IEEE VTS News Magazine*, vol. 51, no. 2, May 2004, pp. 4-9
67. **Varshney, U.**, "Multicast over Wireless Networks", *Communications of the Association for Computing Machinery (ACM)*, vol. 45, no. 12, Dec. 2002, pp. 31-37
68. **Varshney, U.**, A. Snow, M. McGivern, and C. Howard, "VoIP: Technology and Adoption Issues", *Communications of the Association for Computing Machinery (ACM)*, vol. 45, no. 1, January 2002, pp. 89-96
69. **Varshney, U.**, R. Vetter, and R. Kalakota, "Mobile Commerce: An Emerging Frontier", *IEEE Computer*, vol. 33, no. 10, October 2000, pp.32-38
70. Snow, A., **U. Varshney**, and A. Malloy, "Reliability and Survivability of Mobile and Wireless Networks", *IEEE Computer*, vol. 33, no. 7, July 2000, pp. 49-55
71. **Varshney, U.** and R. Vetter, "Emerging Wireless and Mobile Networks", *Communications of the Association for Computing Machinery (ACM)*, vol. 43, no. 6, June 2000, pp. 73-81

### **Publications: Books and Monographs**

72. **Upkar Varshney**, “*Pervasive Healthcare Computing: EMR/EHR, Wireless and Health Monitoring*”, *May 2009, 2010 and 2011, Springer Publications (295 pages)*
73. **U. Varshney**, "Mobile IT", Encyclopedia of MIS, 2013 (Editors: R. Welke and D. Straub)
74. Walsh D., K. Passerini, **U. Varshney**, and J. Fjermestad, “Legal Issues in the Transition to Electronic Records in Health Care”, Information Systems: People, Organizations, Institutions, and Technologies (editors: A. D’Atri and D. Saccà), Springer Verlag Berlin Heidelberg 2009

### **(2008 and before)**

75. **U. Varshney**, Guest editorial: Sp. Issue on Wireless in Healthcare: Elsevier Journal on Decision Support Systems, 2008
76. S. Sarker and **U. Varshney**, Guest editorial: Sp. Issue on Group-oriented Mobile Services: ACM Database Journal, 2008
77. W. Maass and **U. Varshney**, Guest editorial: Sp. Issue on Smart Products: Electronic Markets, 2008
78. **U. Varshney** and O. Mayora, Guest editorial: Sp. Issue on Pervasive Healthcare: ACM/Kluwer Journal on Mobile Networks and Applications, 2007

79. **U. Varshney**, "Algorithms for M-commerce", a chapter in Handbook of Algorithms for Wireless Networking and Mobile Computing (edited by Prof. Azzedine Boukerche), CRC Press, 2005
80. Q. Mahmoud and **U. Varshney**, Guest editorial: Sp. Issue on Emerging Mobile Services: ACM/Kluwer Journal on Mobile Networks and Applications, 2005
81. Andersen, K., A. Fogelgren-Pedersen and **U. Varshney**, "MOBIT", a chapter in Networked Business, Prentice Hall, 2004
82. **U. Varshney** and R. Vetter, Guest editorial: Sp. Issue on Mobile Commerce: ACM/Kluwer Journal on Mobile Networks and Applications, 2002
83. Jain, R. and **U. Varshney**, "ATM: Background, Technology and Applications", a chapter in Macmillan Encyclopedia of Computing, 2002
84. **Varshney, U.**, "Multicast: Issues, Protocols and Applications", a chapter in Multimedia Communications (Editor: Prof. Jerry Gibson), Academic Press, August 2000

### **Publications: Refereed Conference Proceedings**

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85. **Varshney, U.**, "Monitoring and Estimating Medication Abuse", *In Proc. International Conference on Smart Health*, pp. 169-174, 2015
86. Yang, A. and **U. Varshney**, "Exploring Financial Incentives to Improve Medication Adherence", *In Proc. Workshop on Health IT and Economics (WHITE 2015)*
87. **Varshney, U.**, R. Nickerson and J. Muntermann, "Towards the Development of a Taxonomy Theory", *In Proc. Americas Conference on Information Systems (AMCIS 2015)*
88. **Varshney, U.** "Mobile Interventions and Evaluation for Medication Abuse", *IEEE Wireless Telecom Symposium (WTS-2015)*
89. **Varshney, U.**, "Selecting Interventions to Improve Medication Adherence", *In Proc. of SIGDSA Workshop* (2014)
90. Yang, A. and **U. Varshney**, "Financial Incentives for Medication Adherence: Literature Survey and IT-enabled Solution", *In Proc. Americas Conference on Information Systems (AMCIS-2014)*
91. **Varshney, U.**, "Mobile Health: Medication Abuse and Addiction", *In Proc. of 4th ACM Mobihoc Workshop on Mobile Health (Mobihoc-2014)*
92. Singh, N. and **U. Varshney**, "Effective Medication Adherence: The Role of Wireless Interventions", *In Proc. IEEE Wireless Telecom Symposium (WTS-2014)*
93. **Varshney, U.**, "Wireless Monitoring of Misuse of Prescription Medications", *In Proc. IEEE Wireless Telecom Symposium (WTS-2014)*
94. Singh, N. and **U. Varshney**, "An Artifact for Improving Effective Medication Adherence", *In Proc. of Design Science Research in IS (DESRIST-2014)*
95. **Varshney, U.**, R. Nickerson and J. Muntermann, "Taxonomy Development in Health-IT", *In Proc. Americas Conference on Information Systems (AMCIS-2013)*

96. **Varshney, U.** et al., “Investigating Privacy and Security Challenges of mHealth Applications”, *In Proc. Americas Conference on Information Systems (AMCIS-2013)*
  97. **Varshney, U.** and N. Singh, “A Framework for Studying Patterns of Effective Medication Adherence”, *In Proc. IEEE Wireless Telecom Symposium (WTS-2013)*
  98. Sneha, S. and **U. Varshney**, “Strategies Towards Chronic Disease Management via Medication Compliance”, *In Proc. Americas Conference on Information Systems (AMCIS-2012)*
  99. **Varshney, U.** and R. Vetter, “Medication Adherence for Patients with Mental Illness”, *In Proc. IEEE International Conference of Engineering in Medicine and Biology Society (EMBC-2012)*
  100. **Varshney, U.**, “Designing an Artifact for Context-aware Mobile Advertising”, *In Proc. of Design Science Research in IS (DESRIST-2012)*
  101. **Varshney, U.**, “A Framework for Context-aware Wireless Wellness Monitoring”, *In Proc. of IEEE Wireless Telecom Symposium (WTS-2012)*
  102. Maass, W., Kowatsch, T., Janzen, S. and **U. Varshney**, “A Natural Language Technology-enhanced Mobile Sales Assistant for In-store Shopping Situations”, *In Proc. of European Conference on Information Systems 2011* **(best paper nominations in two categories)**
  103. **Varshney, U.**, “Wireless Medication Management System: Design and Performance Evaluation”, *In Proc. of IEEE Wireless Telecom Symposium (WTS-2011)*
  104. **Varshney, U.**, “Smart Medication Management System and Interventions for Medication Adherence”, *In Proc. of SHARP 2011 Symposium on Healthcare Technologies*
  105. Nickerson R., **U. Varshney**, J. Muntermann, “Taxonomy Development in Information Systems: A Literature Survey and Problem Statement”, *In Proc. of Americas Conference on Information Systems (AMCIS-2010)*. Full paper in CD ROM
  106. **Varshney, U.**, H. Lee, and P. Ahluwalia, “Ubiquitous, Mobile, Pervasive and Wireless Information Systems: Current Research and Future Directions”, *In Proc. of Americas Conference on Information Systems (AMCIS-2010)*. Full paper in CD ROM
  107. Nickerson R., **U. Varshney**, J. Muntermann and H. Isaac, “Taxonomy Development in Information Systems: Developing a Taxonomy of Mobile Applications”, *In Proc. of European Conference on Information Systems (ECIS-2009)*.
  108. **Varshney, U.** “A Framework for Wireless Monitoring of Mental Health Conditions”, *In Proc. IEEE International Engineering in Medicine and Biology Conference*, Sept. 2009
  109. Ahluwalia, P. and **U. Varshney**, "Decision Support for Quality of Service in Future Wireless Networks", *In Proc. International Conference on Decision Support Systems*, August 2009
  110. Nickerson R., **U. Varshney**, J. Muntermann and Henri Isaac, “Taxonomy Development in Information Systems: Developing a Taxonomy of Mobile Applications”, *In Proc. of European Conference on Information Systems (ECIS), 2009*
- (2008 and before)**
111. Walsh, D., K. Passerini, **U. Varshney**, J. Fjermestad, “Legal Issues in the Transition to Electronic Records in Health Care”, *Proc. of 2008 Italian Association of Information Systems*



112. Nickerson R., U. Varshney, J. Muntermann and Henri Isaac, "Towards a Taxonomy for Mobile Applications", *Proceedings of Americas Conference on Information Systems (AMCIS)*, August 2007 (full paper in CD ROM)
113. Varshney, U., "Managing Comprehensive Wireless Patient Monitoring", *In Proc. Workshop on Connected Health (First International Pervasive Health Conference)*, Nov. 2006 (full paper in CD ROM)
114. Sneha, S. and U. Varshney, "Ubiquitous Healthcare: A New Frontier in E-Health", *Proceedings of Americas Conference on Information Systems (AMCIS)*, August 2006 (full paper in CD ROM)
115. Varshney, U., "Enhancing Wireless Patient Monitoring by Integrating Stored and Live Patient Information", *In Proc. IEEE Computer-based Medical Systems*, June 2006, pp. 501-506
116. Varshney, U., "Addressing Un-cooperation of Routers in Wireless Patient Monitoring", *Proceedings of IEEE Computer-based Medical Systems*, June 2006, pp. 512-517
117. Varshney, U., "A Framework for Managing Transactions in Group-oriented Mobile Services", *Proceedings of Hawaii International Conference on Systems Sciences (HICSS)*, Jan 2006 (full paper in CD ROM)
118. Varshney, U., "Support for Emergency Message Transmission", *Proceedings of Hawaii International Conference on Systems Sciences (HICSS)*, Jan 2006 (full paper in CD ROM)
119. Varshney, U. And S. Sneha "Power Management in Wireless Patient Monitoring: Performance Evaluation", *Proceedings of IEEE Workshop on Broadband Networks and Telemedicine (Broadmed)*, Oct. 2005 (full paper in CD ROM)
120. Ahluwalia, P. and U. Varshney, "Supporting the End-to-End Quality of Service Across Multiple Heterogeneous Wireless Networks", *Proceedings of Americas Conference on Information Systems (AMCIS)*, August 2005 (full paper in CD ROM)
121. Sneha, S. and U. Varshney, "A Wireless ECG Monitoring System for Pervasive Healthcare", *Proceedings of Americas Conference on Information Systems (AMCIS)*, August 2005 (full paper in CD ROM)
122. Varshney, U. "Dependable Group-oriented Mobile Transactions", *Proceedings of IEEE International Vehicular Technology Conference*, May-June 2005 (full paper in CD ROM)
123. Varshney, U. and K. Ravikumar, "Transaction and Networking Support for Group-oriented Mobile Commerce Services", *Proceedings of First Conference on Broadband Wireless Networks (BroadWISE)*, Oct. 2004
124. Varshney, U. "Using Wireless Networks for Enhanced Monitoring of Patients", *Proceedings of Americas Conference on Information Systems (AMCIS)*, August 2004 (full paper in CD ROM)
125. Varshney, U., "Network Access Issues in Pervasive and Ubiquitous Computing", *Proceedings of CWRU Workshop on Ubiquitous and Pervasive Systems*, October 2003
126. Ahluwalia, P. and U. Varshney, "A Link and Network Layer Approach to Support Mobile Commerce Transactions", *Proc. IEEE Vehicular Technology Conference*, October 2003
127. Varshney, U., "Supporting Group-oriented Mobile Services", *Proceedings of Americas Conference on Information Systems (AMCIS)*, August 2003

128. **Varshney, U.**, “Mobile and Wireless Information Systems: What We Know and What We Need to Know”, *Proceedings of Americas Conference on Information Systems (AMCIS)*, August 2003
129. **Varshney, U.** and A. Malloy, “Introducing Multi-level Fault-tolerance for Highly Dependable Wireless Networks”, in *Proceedings of Hawaii International Conference on System Sciences (HICSS)*, January 2003 (published by IEEE Computer Society Press)
130. **Varshney, U.**, R. Jain, A. Malloy, and P. Ahluwalia, “Wireless in the Enterprise: Requirements and Solutions” (the key paper of the conference) *Proceedings of First International Conference on Wireless in the Enterprise*, Oct. 2002 (organized by the University of California, Berkeley and several European universities)
131. Andersen, K., A. Fogelgren-Pedersen, and **U. Varshney**, “Mobile Organizing using Internet Technologies”, in *Proceedings of International Conference on Electronic Business (ICEB)*, 2002
132. Jain, R. and **U. Varshney**, “Supporting QoS under Fault-tolerant Architectures”, in *Proc. IEEE Vehicular Technology Conference*, May 2002 (full paper in CD-ROM)
133. Malloy, A. and **U. Varshney**, “Optimizing Dependability Attributes of Wireless Networks”, in *Proc. IEEE Vehicular Technology Conference*, May 2002 (full paper in CD-ROM)
134. **Varshney, U.**, and A. Malloy, “On Improving the Dependability of Wireless networks”, in *Proc. IEEE International Global Communications Conference*, Nov. 2001 (full paper in CD-ROM)
135. **Varshney, U.**, A. Snow, and A. Malloy, “Measuring the Reliability and Survivability of Infrastructure-oriented Wireless Networks”, in *Proc. IEEE International Conference on Local Computer Networks*, Nov. 2001 (pp.611-618)
136. **Varshney, U.**, and A. Malloy, “Improving the Dependability of Wireless Networks using Design Techniques”, in *Proc. IEEE International Conference on Local Computer Networks*, Nov. 2001 (pp.122-131)
137. **Varshney, U.**, “Addressing Location Issues in Mobile Commerce”, in *Proc. IEEE International Conference on Local Computer Networks*, Nov. 2001 (pp.184-192)
138. Cousins, K. and **U. Varshney**, “A B2B Framework for M-commerce Applications”, in *Proc. ACM International Workshop on Mobile Commerce*, July 2001 (pp. 43-48)
139. **Varshney, U.**, “Location Issues for M-commerce Applications”, in *Proc. ACM International Workshop on Mobile Commerce*, July 2001 (pp.1-6)
140. **Varshney, U.**, and R. Vetter, “A Framework for Mobile Commerce”, in *Proc. Hawaii International Conference on System Sciences (HICSS)*, January 2001 (full paper in CD-ROM)
141. **Varshney, U.**, and S. Chatterjee, “Architectural Issues in IP multicasting over Wireless Networks”, in *Proc. IEEE International Wireless Communications and Networking Conference*, Sept. 1999 (pp. 41-45)
142. **Varshney, U.**, A. Snow, and A. Malloy, “Designing Reliable Wireless and Mobile networks”, in *Proc. IEEE International Wireless Communications and Networking Conference*, Sept. 1999 (pp. 30-34)
143. **Varshney, U.**, “Location Management in Wireless ATM Networks”, in *Proc. 7<sup>th</sup> International Conference on Telecommunications Modeling*, March 1999 (pp. 193-203)

144. Varshney, U., "Multicast and Multi-Connection Handoffs in Wireless ATM Networks", in *Proc. 7<sup>th</sup> International Conference on Telecommunications Modeling*, March 1999 (pp. 219-224)
145. Varshney, U., "Error Control Schemes for Wireless ATM Networks", in *Proc. IEEE International Performance, Computing and Communications Conference (IPCCC)*, February 1999 (pp.104-110)
146. Varshney, U., "Connection Rerouting for Wireless ATM Networks", in *Proc. Hawaii International Conference on System Sciences (HICSS)*, January 1999 (pp. 306 Abstract, full paper in CD-ROM)
147. Varshney, U., "Design and Performance Evaluation of Connection Routing Schemes for Wireless ATM Environment", in *Proc. IEEE Int. Performance, Computing and Communications Conference (IPCCC)*, Feb. 1998 (pp. 409-415)
148. Varshney, U., "Mobile Computing over the Internet", In *Proc. Hawaii International Conference on System Sciences*, Jan. 1998 (pp. 42-50, vol. IV) **(The best paper of mini-track and also nominated for the best paper award)**
149. Varshney, U., "Selective Slow Start: A Scheme for Improving TCP's Performance in Wireless ATM Environment", in *Proc. IEEE International Conference on Military Communications (MILCOM '97)*, Oct. 1997
150. Varshney, U., "Design and Performance of RAC/EAC for Wireless ATM Networks", in *Proc. IEEE International Conference on Military Communications (MILCOM '97)*, Oct. 1997
151. Varshney, U., "Mobile Computing and the future ATM-based Internet", in *Proc. International Association Conference on Information Systems (IACIS '97)*, Oct. 1997 (pp. 243-248)
152. Varshney, U., "A Simple Scheme for Interconnecting Wireless Networks to ATM Broadband Networks", In *Proc. IEEE International Conference on Military Communications (MILCOM '96)*, 1996 (pp. 769-773)
153. Varshney, U., "A Scheme for Connection Management in Wireless ATM Networks", in *Proc. 1996 NSF/NDSU Workshop on ATM Networking*, August 1996 (pp. 38-45)
154. Varshney, U., and J. Agrawal, "A J-bit Bus Architecture for Multimedia Local ATM Network", in *Proc. IEEE International Conference on Military Communications (MILCOM '95)*, Nov. 1995 (pp. 26-29)
155. Varshney, U., and J. Agrawal, "Supporting Connection-oriented Service in MLAN Protocol," in *Proc. IEEE International Conference on Global Communications (GLOBECOM '94)* (pp. 281-285)
156. Varshney, U., and J. Agrawal, "Performance Evaluation of a Multimedia Local ATM Network (MLAN) Protocol," in *Proc. IEEE International Conference on Military Communications (MILCOM '93)*, (pp. 308-312)
157. Agrawal, J. and U. Varshney, "A Dynamic High Speed Multi-Media Local Area Network (MLAN) Protocol Architecture", in *Proc. IEEE International Conference on Military Communications (MILCOM '92)*, (pp. 1011-1015)

## **Externally-Funded Research Projects**

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1. **U. Varshney** (single PI), Patient Monitoring using Ad Hoc Wireless Networks, National Science Foundation-Shared Cyber Infrastructure, Amount: \$70K, March 1, 2005-August 31, 2006 (combined with three internal grants during 2004-2007, the total for the project exceeded 100K)
2. A. Goerner, P. Simpson, F. Summa, **U. Varshney**, and A. Harris, Center for Telecomputing Research (CTR), University of Missouri-Kansas City, Missouri Distance Education Research Network (MoDERN), Submitted to the State of Missouri, 1994. Status: **Funded**. Amount: \$200K (after matching funds from the school, the total exceeded **\$300K**)
3. A. Goerner, P. Simpson, F. Summa, **U. Varshney**, and A. Harris (5 co-P.I.s), Center for Telecomputing Research (CTR), University of Missouri-Kansas City, Design, Development and Implementation of State-wide Fiber Optic Multimedia Network, Submitted to Southwestern Bell, St. Louis, MO, 1993. Status: **Accepted** by Southwestern Bell but finally not funded due to a telephone rate dispute with the State of Missouri. Amount requested: **\$6,800,000** (6.8 million).

## **Supervision of Doctoral Dissertations**

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1. Alan Yang, **Dissertation Chair** 2015- present “Mobile Health and Taxonomy” (Proposal Defense in Fall 2016)
2. Neetu Singh, **Dissertation Chair** 2014- 2016 “Medication Adherence & IT” (Final Defense in July 2016)
3. Steven Wagner, Dissertation **Committee Member**, 2012-2013, “Reliable Pervasive Healthcare”, Aarhus University, Denmark (Final Defense in June 2013)
4. N. Padmavathy, Dissertation **Committee Member**, 2012-2013, “Mobile Ad Hoc Networks”, Indian Institute of Technology, Kharagpur, India (Final Defense in 2013)
5. Chad Andersen, Dissertation **Committee Member**, 2008-2011, “Studying Work Practices of Healthcare Professionals” (Final Defense in 2011)
6. Sweta Sneha, **Dissertation Chair**, 2006- 2008, “Reliability and Power Management in Wireless Health Monitoring” (Final Defense in May 2008)
7. Lanier Watkins, Dissertation **Committee Member**, 2008-2010, “CPU and Memory Utilization for Grid Computing” (Final Defense in January 2010)
8. Carlos Bilich, Dissertation **Committee Member**, 2005-2007, “UltraWideBand Technology for Pervasive Health Monitoring” (Final Defense in October 2007)
9. Punit Ahluwalia, **Dissertation Chair**, August 2004-July 2006, The End-to-end Quality of Service in Wireless Networks (Final Defense in July 2006)
10. Bill Zhong, **Committee Member**, 2002-2005, “Parallel Computing Architectures”, Department of Computer Science (Final Defense in August 2005)
11. Karlene Cousins, Dissertation **Committee Member**, 2003-2004, “Work Life Balance in Ubiquitous Computing” (Final Defense in August 2004)
12. Alisha Malloy, **Dissertation Chair**, 2000- 2002, “Design and Performance of Quality of Service Enabled Wireless Networks” (Final Defense in July 2002)

## **Development of Courses and Delivery**

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Have developed and taught courses in

- **Health Informatics:** Healthcare and IT, Pervasive and Ubiquitous Healthcare Systems, Pervasive Healthcare Technologies
- **Networking and Telecommunications:** Wireless and Mobile Networks, Computer and Communications Networks, Local Area Networks, Pervasive Computing, Mobile Commerce
- **General Computing:** Intro to Computing & Systems, Computer Architecture, Web Development, Operating Systems, Programming Languages, Distributed Systems, Data Communications

## **Teaching Awards and Quantitative Evaluations**

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### **Teaching Awards**

- Received **MS-CIS Faculty Award for Teaching**, 2015
- Received **RCB College Faculty Recognition Award for Teaching**, 2014
- Received **Myron T. Greene Outstanding Teaching Award**, Department of Computer Information Systems, Georgia State University, Oct. 2004
- Received **RCB College Faculty Recognition Award for Teaching**, 2002

- Received **Myron T. Greene Outstanding Teaching Award**, Department of Computer Information Systems, Georgia State University, 2000

Academic Year	Course Number (Title)	Instructor's Effectiveness	Course Contents	Responses (Class Size)
1998-1999	CIS3320 (Undergraduate Telecom)	4.5	4.0	29(35)
	CIS3320	4.6	4.6	30(34)
	CIS8170 (Network Design)	4.8	4.7	36(39)
	CIS3320	4.6	4.6	38(41)
1999-2000	CIS8170	4.7	4.6	31(35)
	CIS8170	4.7	4.7	26(30)
	CIS8170	4.9	4.8	19(20)
	CIS8170	4.9	4.7	32(35)
	CIS3320	4.9	4.9	18(27)
2000-2001	CIS8170	4.6	4.8	30(34)
	CIS8390 (Wireless Communications)	4.8	4.7	44(50)
	CIS8170	4.7	4.5	16(21)
	CIS4320 (Advanced Networks)	4.8	<b>5.0</b>	13(15)
2001-2002	CIS8170	4.7	4.5	21(30)
	CIS4320	<b>5.0</b>	4.9	12(18)
2002-2003	CIS8170	<b>5.0</b>	4.9	14(15)
	CIS8170	4.8	4.6	14(16)
	CIS8240 (Wireless Networks)	4.7	4.5	23(27)
2003-2004	CIS8170 (Graduate Telecom)	4.5	4.3	15(15)
	CIS4320	4.8	4.5	10(10)
	CIS8170 (Graduate Telecom)	4.8	4.7	8(8)
	CIS8390	4.9	4.9	18(20)
2004-2005	CIS8170 (Graduate Telecom)	4.9	4.6	18(20)
	CIS8170 (Graduate Telecom)	4.8	4.2	14(15)
	CIS8390 (Wireless Communications)	4.6	4.2	14(18)
2005- 2006	CIS8050 (Network Design)	4.8	4.8	15(17)
	CIS8050 (Graduate Telecom)	4.4	4.6	7(12)
	CIS8070 (Pervasive Healthcare)	4.8	4.8	13(18)
2006-2007	CIS8050 (Graduate Telecom)	<b>5.0</b>	4.8	6(6)
	CIS8401 (Mobile Commerce)	4.5	4.4	11(11)
2007-2008	CIS2010 (Introduction to Computing)	4.3	3.9	27(32)
	CIS3320 (Undergraduate Telecom)	4.5	4.4	18(20)
2008-2009	CIS8070 (Pervasive Healthcare)	4.1	3.4	13(14)
	MIT/CIS8070 (Mobile and Wireless IS)	<b>5.0</b>	4.8	5(10)
2009-2010	CIS8070 (Pervasive Healthcare)	4.5	4.5	13(15)
	CIS3320 (Undergraduate Telecom)	4.6	4.5	31(34)
2010-2011	CIS3320 (Undergraduate Telecom)	4.5	4.6	34(36)
	CIS8050 (Graduate Telecom)	4.8	4.8	27(28)
	MIT8070 (Wireless and Healthcare)	NA	NA	NA
2011-2012	CIS8050 (Graduate Telecom)	4.7	4.7	24(24)
	CIS8070 (Pervasive Healthcare)	4.6	4.3	29(29)
	MIT8070 (Wireless and Healthcare)	4.7	4.6	28(34)
2012-2013	CIS8050 (Graduate Telecom)	4.8	4.8	20(21)
	MIT8070 (Wireless and Healthcare)	4.2	3.7	13(20)
2013-2014	CIS8050 (Graduate Telecom)	4.5	4.4	37(44)
	CIS8050 (Graduate Telecom)	4.6	4.6	17(18)
	MIT8070 (Wireless and Healthcare)	4.8	4.7	14(16)
	CIS8050 (Graduate Telecom)	4.7	4.3	30(48)

2014-2015	CIS3320 (Undergraduate Telecom)	4.9	4.7	31(34)
	MIT8070 (Wireless and Healthcare)	4.9	4.5	8(12)
2015-2016	CIS8050 (Graduate Telecom)	4.8	4.4	41(44)
	MIT8070 (Wireless and Healthcare)	4.9	5	8(10)

<b>Average of 17 years and 10 different courses (3 undergraduate, 6 graduate, 1 executive courses)</b>	<b>4.8/5.0</b>	<b>4.6/5.0</b>	<b>20(24)</b>
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### Directed Reading Taught (GSU)

1. Matt Brook, IHA/CIS graduate student, "Big data and healthcare", Spring 2014
2. Andrew Romear, CIS graduate student, "Pervasive Healthcare", Summer 2011
3. Sangeetha Ramamurthy, CIS graduate student, "Mobile Commerce Business Models in Developing Countries", Summer 2009
4. Chris Beckman, CIS graduate student, "Pervasive Healthcare", Fall 2007
5. S Saydar and J. Martin, CIS graduate students, "Advanced Networks", Fall 2006
6. Sweta Sneha, CIS doctoral student, "Ad Hoc Wireless Networking", Summer 2005
7. K. Ravikumar, CIS graduate student, "Simulation of Mobile Commerce Transactions", Summer 2003
8. R. Jain, CIS doctoral student, "Research Issues in Wireless Networking", Spring 2001
9. P. Ahluwalia, CIS graduate student, "QoS in 4G Networks", Spring 2001
10. R. Jain, CIS doctoral student, "Simulation Modeling", Summer 2001
11. S. Davis, CIS graduate student, "Handheld Devices and Wireless Applications", Summer 2001
12. P. Ahluwalia, CIS graduate student, "Schemes for QoS in Emerging Wireless Networks", Fall 2001
13. A. Malloy, CIS doctoral student, "Queueing Theory and Performance Evaluation", Summer 2000
14. M. McGivern, CIS graduate student, "Voice over IP: Adoption and other Issues", Fall 1999
15. H. Foster, CIS graduate student, "Wireless Network Design for Automobile Systems", Summer 1999
16. C. Howard, CIS undergraduate student, "Technology Issues in Voice over IP", Summer 1999

### Development of new courses/modification of existing courses

#### **At Georgia State University**

- Developed a **new emphasis on health informatics** for undergraduate and graduate students, 2006-present
- Developed a **MS specialization in Mobile and Wireless** with courses in advance telecommunications, wireless networking, and mobile commerce, 2005-present
- Re-designed and offered **CIS8070: Pervasive Health Technologies**, Fall 2008
- Designed and offered **CIS8401: Mobile Commerce**, Spring 2007
- Designed and offered **CIS8070: Pervasive and Ubiquitous Computing & Healthcare**, Spring 2006
- Designed **several new courses** for SP Jain Telecom program in Singapore, spring-summer 2006
- Designed and offered **CIS4320: Advances in Networks (undergraduate course)**, 2001-2003
- Designed and offered **CIS8390A: Sp. Topics: Wireless and Mobile Networks** (became a regular graduate course: CIS8411), 2000
- Periodically revised the contents of **CIS3320 (undergraduate telecom)** and **CIS8050/MIT8070 (graduate telecom)**, 2000-present

## **Service Activities Internal to the University**

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- **Chair**, RCB Faculty Development Committee, 2006-2013 (Managed 6-7 workshops/year on topics in Research, Publications, Grants, Teaching, Promotion and Tenure, and Ed. Technologies. Also managed the IIG teaching grant-awards for RCB)
- **Chair**, Undergraduate Program Committee, CIS, Jan. 2014-Jan. 2015
- **Member**, Graduate Program Committee, CIS, Jan. 2015-Present
- **Member, NTT Search Committee, 2014-2015**
- **Member**, Search Committee for 2CI-Health Informatics, 2011-2012
- **Member**, Health Informatics Committee, 2006 - Present
- **Chair**, Ubiquitous and Pervasive Information Systems, 2000-2008 (Conducted workshops and was editor-in-chief of UPIS Newsletter in 2006-2007)
- **Chair**, Ad Hoc Committee on Exploring Collaborative Programs between CIS&CS, 2005-2006
- **Chair**, IIB Committee on Summer Grants Evaluation, 2005
- **Web Master**, RCB Faculty Development Committee, 2001-2004
- **CIS Faculty Liaison** to GSU Library, 2000-2007
- **Member**, University Senate, Jan. 2007-June 2008 (also served on GSU IS&T and Faculty Diversity Committees)
- **Member**, RCB Faculty Development Committee, 2001-2006
- **Member**, CIS Ph.D. Committee, 2001- 2004, CIS Departmental UPC, 2000-2001, CIS Chair Search Committee, 2006, CIS Ph.D. Comprehensive Examination Committee 2000-present, CIS P&T Committee, 2003-present
- **Course coordinator**: CIS3320, 1998-2000, CIS4320, 2000-2000, CIS8050 (previously CIS8170), 2000-present, and CIS8070, CIS8401, CIS8411, 2004-present

## **Service Activities in Academic and Professional Organizations**

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### **Conference Chair, Keynote Speaker and Program Committee**

1. **Program co-chair**, Americas Conference on Information Systems (AMCIS), 2009, San Francisco
2. **Founding Chair** The First IEEE/Create-net International Pervasive Healthcare Conference, Nov. 2006, Innsbruck, Austria (<http://www.pervasivehealth.org/previous/index.html>)
3. **Co-chair, Steering Committee : 2<sup>nd</sup> and 3<sup>rd</sup>** IEEE/Create-net International Pervasive Healthcare Conferences, 2008 and 2009
4. **Chair**, IEEE WTS Mini-symposium on E-health and Telecom: 2013 (Phoenix), 2014 (Washington, DC) and 2015 (New York City)
5. **Keynote Speaker** (5 times at IEEE, ACM and several industry conferences)
6. **Member of Program Committees and Session Chair** (more than 30 times at IEEE, AIS, and ACM conferences)
7. **Member of Several AIS Committees** (site selection, future chairs, SIG-health chair nomination, AIS review system among others)
8. **External Evaluator** (P&T cases, NSF, program evaluation, international grants competition in Denmark, Sweden, Israel), 2004-present (2-5 every year)
9. **Invited Speaker** (More than 50 Tutorials, Industry-conferences, advisory boards) 2000-present



## Editorial Positions

1. **Senior Editor**, Decision Support Systems, 2014-present (**Associate Editor**, 2006-2014)
2. **Senior Editor** for Health Informatics, IEEE Computer, 2013-present
3. **Associate Editor**, IEEE Access (an IEEE wide Mega Open Access Journal), 2013-2015
4. **Associate Editor**, International Journal on Interdisciplinary Telecommunications and Networking (IJITN), 2008-present
5. **Associate Editor**, IEEE Transactions on IT in BioMedicine, Jan. 2007-Dec. 2012
6. **Associate Editor**, European Conference on Information Systems, 2013
7. **Senior Guest Editor**, ACM Database, 2007-2008
8. **Guest Editor**, Electronic Markets: Sp. Issue on Smart Products, 2007-2008
9. **Guest Editor**, Decision Support Systems: Sp. Issue on Wireless in the Healthcare, 2007-2008
10. **Primary Guest Editor**, ACM/Springer Journal on Mobile Networks and Applications (MONET): Sp. Issue on Pervasive Healthcare, 2005-2007
11. **Co-Guest Editor**, ACM/Kluwer Journal on Mobile Networks and Applications (MONET): Sp. Issue on Mobile Services, 2003-2005
12. **Associate Editor**, Communications of the AIS 2003-2007
13. **Member of Editorial Board**, International Journal on Mobile Communications 2002-2007
14. **Member of Editorial Board**, International Journal on Network Management 2004-2007
15. **Member, Advisory Board**, Idea Science Publishers Series on Mobile Business, 2005-2007
16. **Member of Editorial Board and Editor** for Communications, IEEE Computer, Jan. 2000- Dec. 2004
17. **Primary Guest Editor**, ACM/Kluwer Journal on Mobile Networks and Applications (MONET): Sp. Issue on Mobile Commerce, 2000-2002