

# CURRICULUM VITAE

Subhashini Ganapathy, Ph.D., E.I

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## Education:

Madras University, India	Instrumentation & Control Engineering	B.S., 1999
Wright State University, Dayton OH	Human Factors & Industrial Engineering	M.S., 2001
Wright State University, Dayton OH	Humans in Complex Systems	Ph.D., 2006

## Professional Experience:

Wright State University, Dayton OH	Assistant Professor	2011-Present
Intel Corporation, Oregon	Senior User Experience Researcher	2006 – 2011
Wright State University, Dayton OH	Research Associate	2002-2006
Wright State University, Dayton OH	Graduate Research Assistant	2001 - 2003
Intel Corporation, Oregon	Graduate Intern	2000-2001
Wright State University, Dayton OH	Graduate Research Assistant	1999-2000

## Publications:

### Journals:

1. Prabhala, S., and **Ganapathy, S.** (2011). Emerging Artificial Intelligence Application: Transforming Television into Smart Television. In *Semantic Methods for Knowledge Management and Communication: Studies in Computational Intelligence* (Eds. Katarzyniak, R., Chiu, T.F., Hong, C.F., and Nguyen, N.T.). Vol. 381, pp. 311-318, Springer: Berlin/Heidelberg
2. Anderson, G., Corriveau, P., DeVetter, D., Engelman, F., **Ganapathy, S.**, Reed, R., Ross, A. "Power Efficiency and Sustainable Information Technology, Volume 12, Issue 04, Power Efficiency and Sustainable Information Technology
3. **Ganapathy, S.**, Narayanan, S., & Srinivasan, K. (2006). Model-Based Decision Support for Supply Chains. *International Journal of Simulation and Process Modeling*.
4. Muller, A. C., **Ganapathy, S.**, Fendley, M., & Narayanan, S. (2006). Effectiveness of Distance Education in a Graduate Engineering Curriculum, *WSEAS Transactions on Advances in Engineering Education*, 2 (3), pp 148-155.
5. Kustra, T., **Ganapathy, S.**, Muller, A. C., & Narayanan, S. (2005). Decision Support System for Logistics Systems Analysis Using Image Theory and Work Domain Analysis, *Journal of Defense Modeling and Simulation*, 2(2), pp 71-85
6. Dave, R., **Ganapathy, S.**, Fendley, M., & Narayanan, S. (2004). A Knowledge-Based System to Model Human Supervisory Control in Dynamic Planning. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, 1(2), 1-14.

### Book Chapter:

7. **Ganapathy, S.** (In Press), Design Guidelines for Mobile Augmented Reality – User Experience, Human Factors in Augmented Reality Environments, edited by T. Huang, L. Alem.
8. **Ganapathy, S.**, Prabhala, S., Narayanan, S., Hill, R.R., Gallimore, J.J. (In Review, 2010) Interactive Model-Based Decision Making for Time-Critical Vehicle Routing, Human-in-the-loop Simulation: Methods and Practice, edited by S. Narayanan, L. Rothrock.
9. Prabhala, S., **Ganapathy, S.**, Narayanan, S., Gallimore, J. J., and Hill, R. R. (2006). Model-Based Simulation to Examine Command and Control Issues with Remotely Operated Vehicles, In Simulation and Modeling: Current Technologies and Applications, edited by A.A. El-Sheikh, A. Al-Ajeeli, and E. M. Abu-Taieh.

### Conference Proceedings:

10. **Ganapathy, S.**, Anderson, G., Kozintsev, I. (2011), Empirical Evaluation of Augmented Information Presentation on Small Form Factors – Navigation Assistant Scenario, ISVR 2011, Singapore.
11. Prabhala, S., Loi, D., and **Ganapathy, S.** (2011). Ethnography, ethnography, or ethnography? What Happens when the same word means different things for different disciplines? HCI International Conference, Orlando, FL, pp.102-110
12. Anderson, G., **Ganapathy, S.**, Doherty, R. (2011), Tablet Touch responsiveness, HCI International Conference, Orlando, FL,.
13. **Ganapathy, S.**, Amirfathi, M., Layton, K., Saadia, A., (2008), Seamless Classified Information Protection Capability, WSEAS International Conference on Computers, Heraklion, Greece.
14. **Ganapathy, S.**, and Anderson, G. J., (2008), Usability for IT: Manageability of Data Security Technologies for Client Devices, WSEAS International Conference on Computers, Heraklion, Greece.
15. **Ganapathy, S.**, Anderson, G. J., Gao, J (2008), Experiences and Trends on Energy Conservation in Information Technology segment, Proceedings of the Institute of Industrial Engineers Annual Conference, Orlando, Florida.
16. **Ganapathy, S.**, Anderson, G. J., Gao, J (2008), IT Management and Practices of Small Businesses, Proceedings of the Institute of Industrial Engineers Annual Conference, Orlando, Florida.
17. **Ganapathy, S.**, Narayanan, S., and Hill, R. R. (2006). Generation of Alternatives using Interactive Optimization Technique for Supervisory Control of Unmanned Aerial Vehicles, Proceedings of the Institute of Industrial Engineers Annual Conference, Orlando, Florida.
18. Muller, A. C., **Ganapathy, S.**, Fendley, M., and Narayanan, S. (2005). Comparison of In-class versus Distance Learning Approaches in a Graduate Engineering Program, Proceedings of WSEAS / IASME International Conference on: Educational Technologies, Canary Island, Spain.
19. Prabhala, S., **Ganapathy, S.**, Gallimore, J.J., Narayanan, S., and Hill, R.R. (2005). Interactive Optimization for Unmanned Aerial Vehicle Routing. Proceedings of the Summer Computer Simulation Conference. Philadelphia, PA, pp. 90-95.
20. Kustra, T., **Ganapathy, S.**, Muller, A. C., & Narayanan, S. (2005). A Decision Support System for Air Force Aircraft Sortie Generation, CD ROM Proceedings of the Wright State Graduate Student Symposium, Dayton, OH.
21. Kustra, T., **Ganapathy, S.**, & Narayanan, S. (2004). Interactive Model-Based Decision Support for Logistics System. CD ROM Proceedings of the Institute of Industrial Engineers Annual Conference, Houston, Texas.

22. **Ganapathy, S.**, & Hill, R. R. (2003). Dynamic Path-Planning for Search and Destroy Missions - The Bay of Biscay Scenario. Proceedings of the Winter Simulation Conference Proceedings, New Orleans, Louisiana, pp. 999-1003.
23. **Ganapathy, S.**, Narayanan, S., & Srinivasan, K. (2003). Simulation-Based Decision Support for Supply Chain Logistics. Proceedings of the Winter Simulation Conference, New Orleans, Louisiana, pp. 1013-1020.
24. **Ganapathy, S.**, Narayanan, S. (2003). Decision Support for Supply Chain Analysis. Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics, Washington DC, v 3, pp. 2077-2082.
25. **Ganapathy, S.**, Narayanan, S., & Hill, R. (2003). Search Algorithm for Non-linear Stochastic System - Bay of Biscay Scenario. Proceedings of the Summer Simulation Multi Conference, Montreal, Canada, pp. 250 – 255.
26. Dave, R., **Ganapathy, S.**, Fendley, M., & Narayanan, S. (2003). Dynamic Path Planning of Ground Robots and Uninhabited Aerial Vehicles in Human Search and Rescue Missions. Proceedings of the First Indian International Conference on Artificial Intelligence, Hyderabad, India, pp 315 – 322.
27. Narayanan, S., Dave, R., **Ganapathy, S.**, Narakesari, S., Hill, R., & Gallimore, J. (2003). Case Studies on Object-Oriented Models and Simulations for Analyzing Complex Systems. Proceedings of the 32nd International Conference on Computers and Industrial Engineering, pp. 827 – 832.

### **Patent Applications (Pending):**

1. **Ganapathy, S.** Anderson, G., Marsh, D.K, Techniques for Mobile Augmented Reality Applications, Application # 12/976,675, filed December 2010.
2. Anderson, G., **Ganapathy, S.**, Projection Interface Techniques, Application # 12/978,533, filed December 2010.
3. Anderson, G., **Ganapathy, S.**, Object Mapping Techniques for Mobile Augmented Reality Applications, Application # 12/976,660, filed November 2010.

### **External/Industry Activities & Presentations**

1. Plenary talk (2011), Computing in Education: Transforming Informal Learning into Formal Learning, 3rd International Conference on Advanced Computing
2. Workshop on Everyday Digital Money: Innovation in Money Cultures and Technologies, 2008: Security Challenges in Web browsing - e-transactions.
3. IIE Annual Conference, 2008: Experiences and Trends on Energy Conservation in Information Technology segment
4. IIE Annual Conference, 2008: IT Management and Practices of Small Businesses
5. EPIC 2008, IT Management and Practices of Small Business
6. Institute of Industrial Engineers Annual Conference, 2005 Human-Centered Time-Critical Decision Making in Dynamic Multi-Objective Contexts.
7. Guest lecture, Wright State University, Dayton, OH: Multi-Attribute Utility Theory
8. FROM INVENTION TO MARKET 2003 forum, Wright State University: Integrating Mobile Devices with High Fidelity Computational Models for Future E-Business Applications.
9. Winter Simulation Conference 2003: Human Centered Model-Based Decision Making in Time Critical Systems.

**Biography Listed in:**

1. Biography listed in Marquis Who's Who in American Women, 2007.
2. Biography listed in Marquis Who's Who of Emerging Leaders, 2007
3. Biography listed in Marquis Who's Who in America, 2006.

**Professional Affiliations:**

1. IEEE Section Treasurer, 2011-2012
2. IEEE Senior Member, since 2010
3. 2006 AZ Women At Intel Conference, Speaker-Team, Intel Corporation, 2006
4. Passed the NCEES Fundamentals of Engineering Exam, 2005
5. Reviewer, Journal of Computers and Operations Research
6. Acting Track Coordinator, Military Applications, Summer Computer Simulation Conference, 2005
7. Session Chair, Military Analysis Using Agent Models, Winter Simulation Conference, 2004
8. Session Chair, Emerging Areas: Urban Operations and UCAVs, Winter Simulation Conference, 2003
9. Chair, Judicial Review Panel, Judicial Affairs, Wright State University, 2004 – Present
10. Student Member, Academic Integrity Panel, Judicial Affairs, Wright State University, 2003 – 2004
11. Student Member, INFORMS, 2003 – 2006
12. Student Member, IIE, 2005
13. Volunteer Coordinator, Dayton Air Show 2003, 2004

**Honors:****Intel:**

1. IT Department Recognition Award, 2006
2. Spontaneous Recognition Award for Arizona WIN Conference, 2006

**Graduate:**

3. Bonder Scholarship for Applied Operations Research in Military Applications, INFORMS Military Applications Society, 2005.
4. Ph.D. in Engineering Assistantship, 2003- 2004
5. Dayton Area Graduate Studies Institute Competitive Tuition Scholarship, Wright State University, 2003 – 2004
6. Graduate Tuition Fellowship, Wright State University, 2002 – 2004
7. College of Engineering Fellowship, Wright State University, 1999 – 2001
8. Student Travel Grant, Winter Simulation Conference, 2003