

CURRICULUM VITAE – SUBHASHINI GANAPATHY, PH.D.

SUBHASHINI.GANAPATHY@WRIGHT.EDU

EDUCATION

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

PROFESSIONAL EXPERIENCE

Chair , Intel Initiative	2022 – Present
Chair , Department of Biomedical, Industrial, & Human Factors Engineering, Wright State University, Dayton OH	2020 - Present
Professor , Wright State University, Dayton OH	2022– Present
Associate Professor , Wright State University, Dayton OH	2017-2022
Assistant Professor , Wright State University, Dayton OH Department of Biomedical, Industrial, & Human Factors Engineering,	2011 - 2017
<i>Joint Appointments:</i> Department of Surgery, Boonshoft School of Medicine	2013 – Present
Department of Computer Science and Engineering, CECS	2015 – 2023
Director : Interactions, Design, and Modeling Lab Russ 225	2012 - Present
Research Faculty Summer Faculty Fellowship Program, AFOSR	Summer '13, '14
Senior User Experience Researcher Intel Corporation, Portland, OR	2006–2011
Software Engineer Intel Corporation, Chandler AZ	2001- 2002
Graduate Research Assistant Department of Biomedical, Industrial and Human Factors Engineering, Wright State University, Dayton OH	2002-2006 1999 - 2000
Graduate Intern Intel Corporation, Chandler, AZ	2000-2001

PROFESSIONAL AFFILIATIONS

1. Senior Member (since 2010) – IISE, IEEE
2. Member - HFES

HONORS and AWARDS

1. 2022 Diversity in Business Award: Outstanding Diversity Champion, Dayton Business Journal.
2. TedXDayton, Speaker, “*Engineering is Actually Fun*”, 2020, Dayton OH, <https://youtu.be/PKB6x3qpC20>
3. 40 Under 40, 2017, Region’s brightest young business leaders, Dayton Business Journal, Dayton OH
4. Outstanding Engineers’ and Scientists’ Award, 2016, Affiliate Societies Council, Dayton OH
5. Excellence in Teaching Award, 2014, Southwestern Ohio Council for Higher Education (SOCHE)
6. Presidential University Faculty Early Career Achievement Award, 2014, Wright State University
7. College of Engineering and Computer Science, Faculty Early Career Achievement Award, 2014, Wright State University
8. Microsoft Azure Research Award, 2014-2015, Microsoft Corporation

9. Bonder Scholar Research Grant, 2014, INFORMS
10. Biography featured in "I am an Engineer. I change the world" 2012, periodical that features achievements and careers of IEEE WIE.
11. Bonder Scholarship for Applied Operations Research in Military Applications, 2005, INFORMS Military Applications Society.

TEACHING

COURSES TAUGHT AT WRIGHT STATE UNIVERSITY

- Since joining WSU, I have taught 7 different courses, in which I introduced two new courses - Computational Neuroergonomics (BME/ISE) & Human Factors in Mobile Computing, Fall 2012.
- Selected to participate in Computer Science and Engineering Virtual Community of Practice (VCP). With support from the National Science Foundation, the American Society for Engineering Education (ASEE) is leading an effort to develop a sustainable virtual community of practice model for faculty development.

DISSERTATION AND THESIS SUPERVISION AS ADVISOR

Ph.D. Dissertation (3 in progress, 5 completed)

1. *Kushal Abhyankar* –(Spring 2017) - Graduate Student Excellence Award, Graduate Student Assembly Award, Original work category, Dissertation Title: *Model-based approach to understand and develop technology-enhanced system for engineering education*
2. *Matt Sherwood* (Fall 2017), Dissertation Title: *Priming and Neurofeedback for Enhanced Learning*
3. *Cassandra Clouse* (Fall 2019), Dissertation Title: *Immersive Rehearsal in Simulated Environment (IRISE)*
4. *Lijian Xao* (Spring 2021), Course Scheduling Problem with Room Consideration, Co-advisors – Pratik Parikh & Xinhui Zhang
5. *Paul Stone* (Fall 2022), Dissertation Title: *Improving Transparency in Human AI teaming for Complex Systems.*
6. *Aaron Madaris* (Started Spring 2017, Completed Candidacy), Dissertation Title: *Characterization of 3D noise in Accelerated Magnetic Resonance Imaging*
7. *Abbe Barr* (Started Spring 2017, Completed Proposal), Dissertation Title: *Understanding Transfer of Knowledge in Simulation-Based Training*
8. *Michael Vredenburgh* (Started Fall 2020), Dissertation Title: TBD.

Master's Thesis (11 completed, 2 in progress)

1. *Muhammad Alamoud* – Graduate Student Excellence Award, 2013
Degree (Awarded, Spring 2013): Master of Science s, Biomedical Engineering
Thesis Title: *Mobile Computing for Trauma and Surgical Care Continuous Education*
2. *Raghavendra Polakonda*
Degree (Awarded, Spring 2014): MS in Engineering, Industrial and Human Factors Engineering
Thesis Title: *Information presentation on mobile devices for plant operations*
3. *Kevin Hatcher*
Degree (Awarded, Spring 2016): MS in Engineering, Biomedical Engineering
Thesis Title: *EEG data to inform use of augmented information for engineering education*
4. *Sriram Raju*
Degree (Awarded, Spring 2017): MS in Engineering, Industrial and Human Factors Engineering
Thesis Title: *At-a-glance Information Presentation for aiding human decision making*
5. *Kate Berberich*
Degree (Awarded, Summer 2017): MS in Engineering, Industrial and Human Factors Engineering

Thesis Title: Evaluating Information Display System in Transfer of Care Scenarios

6. *Sebastian Stumbo*

Degree (To be Awarded, Spring 2017): MS in Engineering, Industrial and Human Factors Engineering

Thesis Title: Simulation-based Framework for improving transfer of care in emergency response system

7. *Tom Merrell*

Degree (Awarded, Spring 2018): MS in Engineering, Industrial and Human Factors Engineering

Thesis Title: Mindfulness to improve mental training in reducing stress

8. *Wiehan Boshoff - Graduate Student Excellence Award, 2018*

Degree (Awarded, Spring 2018): MS in Computer Science

Thesis Title: Use Of Adaptive Mobile Applications To Improve Mindfulness

9. *Meenakshi Nagarajan*

Degree (Awarded, Fall 2019): MS in Engineering, Industrial and Human Factors Engineering

Thesis Title: Augmenting Incident Command System For An Improved Emergency Response

10. *Paul Stone*

Degree (Awarded, Spring 2019): MS in Engineering, Industrial and Human Factors Engineering

Thesis Title: Agent-based simulation for Artificial Intelligence Assisted Transfer of Care

11. *Ryan Thompson*

Degree (Awarded, Fall 2020): MS in Engineering, Industrial and Human Factors Engineering

Thesis Title: Time Series Imputation Methods and Presentation

- Served on 25+ Ph.D. and MS thesis committee as member

SCHOLARSHIP

[All peer-reviewed archival publications, Student name underlined]

PATENTS

1. Ganapathy, S. Anderson, G., (2017) Object mapping techniques for mobile augmented reality applications, US 9623334.
2. Ganapathy, S. Anderson, G., Marsh, D.K (2016), Techniques for Mobile Augmented Reality Applications, US 9264515 B2.
3. Anderson, G., Ganapathy, S. (2014), Projection Interface Techniques, US 8839134 B2.
4. Anderson, G., Ganapathy, S. (2014) Object Mapping Techniques for Mobile Augmented Reality Applications, US 8913085 B2.

BOOK EDITOR

1. Prabhala, S. and Ganapathy, S. (Eds.). (2013). Transforming ethnography: user experience methods and practices. Nova Science Publishers

BOOK CHAPTERS

1. Alamoud, M. & Ganapathy, S. (2013). Ethnography - history, applications and trends, in transforming ethnography: user experience methods and practices. In S. Prabhala, & S. Ganapathy (Eds.). *Transforming ethnography: user experience methods and practices*. (pp. 1-10). Nova Science Publishers
2. Ganapathy, S. (2013). User experience, human factors in augmented reality environments. In T. Huang & L. Alemp (Eds.). *Design guidelines for mobile augmented reality*. (pp. 165-180). Springer
3. Ganapathy, S., Prabhala, S., Narayanan, S., Hill, R.R., & Gallimore, J.J. (2010). Interactive model-based decision making for time-critical vehicle routing. In S. Narayanan & L. Rothrock (Eds.). *Human-in-the-loop simulation: methods and practice*. (pp. 203-220). London: Springer
4. Prabhala, S., & Ganapathy, S. (2011). Emerging artificial intelligence application: transforming television into smart television. In Katarzyniak, R., Chiu, T.F., Hong, C.F., & Nguyen, N.T. *Semantic methods for knowledge management and communication: studies in computational intelligence*. (Vol. 381). (pp. 311-318). Verlag Berlin Heidelberg: Springer

- Prabhala, S., Ganapathy, S., Narayanan, S., Gallimore, J. J., & Hill, R. R. (2006). Model-based simulation to examine command and control issues with remotely operated vehicles. In A.A. El-Sheikh, A. Al-Ajeeli, & E. M. Abu-Taieh (Eds.). *Simulation and modeling: current technologies and applications*. (pp. 199-218). IGI Publishing

REFEREED JOURNAL

- Nagarajan, M., Ganapathy, S., & Cheatham, M. (2022). Model-Based Decision Support System for Improving Emergency Response. INTERNATIONAL JOURNAL OF HUMAN-COMPUTER INTERACTION. <https://doi-org.ezproxy.libraries.wright.edu/10.1080/10447318.2022.2041912>
- Stone, P. B., Ganapathy, S., Fendley, M.E., Akilan, L. (2021). Integrating Wearable Devices in Real-Time Computer Applications of Petrochemical Systems. *International Journal of Mechanical and Mechatronics Engineering*, Vol:15 (09), 2021, ISNI:0000000091950263.
- Stone, P. B., Jessup, S. A., Ganapathy, S., Harel, A. (2021). Design Thinking Framework for Integration of Transparency Measures in Time-Critical Decision Support International Journal of Human-Computer Interaction (IJHCI) Special Issue on Transparent Human-Agent Communications.
- Stone, P. B., Nelson, H. M., Fendley, M. E., & Ganapathy, S. (2021). Development of a novel hybrid cognitive model validation framework for implementation under COVID-19 restrictions. *Human Factors & Ergonomics in Manufacturing & Service Industries*, 31(4), 360-374. <https://doi-org.ezproxy.libraries.wright.edu/10.1002/hfm.20904>
- Clouse C., Ewer, M. W., French, D., Gallimore, J., Ganapathy, S., (2021) Immersive Rehearsal in a Simulated Environment, *Military Medicine*, Volume 186, Pages 184-189, <https://doi.org/10.1093/milmed/usaa419>
- Raju, S., Ganapathy, S., McCarthy, M. (2021), Assessing Effectiveness of Information Presentation Using Wearable Augmented Display Device for Trauma Care International Journal of Recent Trends in Human Computer Interaction (IJHCI), Volume 10 (1) ISSN: 2180-1320.
- Farris, K. Ganapathy, S., Fendley, M. (2020) Presenting Trends In Petrochemical Process Control Systems, *WSEAS Transactions on Computers*, Volume 19, 194-200
- Sherwood, M., Parker, J. G., Diller, E. E., Ganapathy, S., Bennett, K. B., Esquivel, C. R., Nelson, J. T. (2019) "Self-directed down-regulation of auditory cortex activity mediated by real-time fMRI neurofeedback augments attentional processes, resting cerebral perfusion, and auditory activation", *NeuroImage*.
- Sherwood, M.S., Parker, J.G., Diller, E. E., Ganapathy, S., Bennett, K., Nelson J. T., (2018). "Volitional Down-Regulation of the Primary Auditory Cortex Via Directed Attention Mediated by Real-Time fMRI Neurofeedback." *AIMS Neuroscience* 5(3), 179-199
- Damacharla, P., Dhakal P., Stumbo, S., Javaid, A., Ganapathy, S., Malek, D., Hodge, D., and Devabhaktuni, V., (2018) "Effects of Voice-Based Synthetic Assistant on Performance of Emergency Medical Responders in Training," *International Journal of Artificial Intelligence Education*, 29, 122-143
- Sherwood, M., Diller, E., Ey, E., Ganapathy, S, Nelson, J., Parker, Ja. (2017). A Protocol for the Administration of Real-Time fMRI Neurofeedback Training. *Journal of Visualized Experiments*. 10.3791/55543.
- Kalyan, V., Ganapathy, S., Narayanan, S., and Hill, R. R. (2015). Integrated Vehicle Routing – A Case Study of Unmanned Aerial Vehicle Decision Making. *International Journal of Intelligent Defense Support Systems*, 5(3), 205-225.
- Polakonda, R. & Ganapathy, S. (2014). Mobile computing for field operator control – petrochemical plant operations case study. *IIE Transactions on Ergonomics and Human Factors, Special Issue on Human Factors in Advanced Applications for Process Control*. 2 (3-4), 169-178.
- Polakonda R., Ganapathy, S., Barrera K., & Gruenberg, J. (2014). Technology integration for performance measurement in training for disaster management. *Advances in Disaster Management, LIAISON - A Journal of Civil – Military Disaster Management and Humanitarian Relief Collaborations*. 6, 37-43.
- Abhyankar, K. & Ganapathy, S. (2014). Technology-enhanced learning analytics system design for engineering education. *International Journal of Information and Education Technology*, 4 (4), 345-350.
- Ganapathy, S. & Abhyankar, K. (2013). Seamless multi-modal interactions across computing devices for enhancing engineering education - gesture interaction, special issue on human computer interaction in engineering education. *The International Journal of Engineering Education*, 29 (3), 578-585.
- Abhyankar, K & Ganapathy, S. (2013). Ethnographic research based education model development. *International Journal of Information and Education Technology*, 3 (1), 113-116.
- Loi, D., Ganapathy, S. and Prabhala, S. (2013). Emerging markets: product and service opportunities for middle and upper middle class. *Advanced Materials Research*, 601, 626-634.

19. Anderson, G., Corriveau, P., DeVetter, D., Engelman, F., Ganapathy, S., Reed, R., & Ross, A. (2009). Power efficiency and sustainable information technology. *Intel Technology Journal*, 12 (04), 303-311.
20. Ganapathy, S., Narayanan, S., & Srinivasan, K. (2006). Model-based decision support for supply chains. *International Journal of Simulation and Process Modeling*, 2 (3), 188-197.
21. 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), 148-155.
22. 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), 71-85.
23. 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.

REFEREED CONFERENCE PROCEEDINGS

1. Combs, K., Bihl, T., Ganapathy, S., Staples, D. (2021), Analogical Reasoning: A Comparison of Algorithms for Self-Learning Natural Language Processing, Hawai'i International Conference on System Sciences.
2. Juvina, I., Larue, O., Widmer, C., Ganapathy, S., Nadella, S., Minnery, B.S., (2019), Task-offload Tools Improve Productivity and Performance in Geopolitical Forecasting. COGSAT@AAAI Fall Symposium 2019. <http://ceur-ws.org/Vol-2558/short6.pdf>; <http://ceur-ws.org/Vol-2558/>
3. Stone, P.B., Ganapathy, S. (2019) Agent-Based Simulation of AI-Assisted, Transfer of Care. *IISE Conference*, Florida. <http://toc.proceedings.com/55353webtoc.pdf>
4. Wood, D., Nagarajan, M., Opp, A. Ganapathy, S., Cheatham, M., Gallagher, J., & Gruenberg, J. (2016). Using Model-Based Simulation for Augmenting Incident Command System for Disaster Response. *Proceedings of the 2016 Winter Simulation Conference*. Virginia. <https://cps-vo.org/node/50664>
5. Lou, Y., Finn, J., Ganapathy, S., Weywraich, P., Niehaus, J., Cao, C.G.L. (2014). Supporting procedural and perceptual learning in laparoscopic surgery. The 2014 International Annual Meeting of the Human Factors and Ergonomics Society. Chicago, IL, October 27-31, pp. 688-692
6. Renner, A. Williams, R., Harmon, B., Ganapathy, S., Abhyankar, K., West, J., Weiner, N., Weinle, N., McCartney, M., and Boswell, L. (2014) RIPPLE: Scalable Medical Telemetry System for Supporting Combat Rescue, National Aerospace and Electronics Conference, Dayton, Ohio, pp. 228-232
7. Abhyankar, K., Polakonda, R., Ganapathy, S., and Barrera, K. (2014) Model-Based Simulation Systems for Adaptive Training in Time-Critical Decision Making, National Aerospace and Electronics Conference, Dayton, Ohio, pp. 149-152
8. Abhyankar, K. Ganapathy, S., Kidambi P., (2014). Ethical Behavior Mapping Rubric for Ethics Education in Engineering, IEEE International Symposium on Ethics in Engineering, Science, and Technology, Chicago, Illinois
9. Abhyankar, K. and Ganapathy, S. (2013). Identifying Technology Integration in Engineering Education with Deep Dive Ethnographic Research, IFAC Symposium, Las Vegas, Nevada, Volume 12, Part 1, pp. 491-496
10. Abhyankar, K. and Ganapathy, S. (2013). Augmented Reality Based Education system for effective knowledge transfer, ISERC, IIE conference, San Juan, Puerto Rico, pp. 463-472
11. Alamoud, M. Ganapathy, S., and McCarthy, M (2013). Mobile Computing Capabilities for Trauma and Surgical Care Education, ISERC, IIE conference, San Juan, Puerto Rico, pp. 40-49
12. Miller, A., Sun, T. Ganapathy, S., Pyatka, N., Weyrauch, P., Niehaus, J., and Cao, C.G.L. (2013). Strategies for training for technical and non-technical surgical skills. Symposium: MIS – Beyond the box trainer. The 57th Annual Meeting of the Human Factors and Ergonomics Society. San Diego, CA pp. 658-662
13. Ganapathy, S., Anderson, G., and Kozintsev, I. (2011). Empirical Evaluation of Augmented Information Presentation on Small Form Factors – Navigation Assistant Scenario. ISVR 2011, Singapore, pp.75-80
14. 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, Florida, pp.102-110
15. Anderson, G., Doherty, R., and Ganapathy, S. (2011). User Perception of Touch Screen Latency. In Design, User Experience, and Usability. Theory, Methods, Tools and Practice (pp. 195-202). Springer Berlin Heidelberg, pp. 195-202
16. Ganapathy, S., Amirfathi, M., Layton, K., and Saadia, A., (2008). Seamless Classified Information Protection Capability, WSEAS International Conference on Computers, Heraklion, Greece, pp. 712-717

17. 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, pp. 718-723
18. 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.
19. 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.
20. 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, Pennsylvania, pp. 90-95.
21. Kustra, T., Ganapathy, S., and 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., and 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., and Srinivasan, K. (2003). Simulation-Based Decision Support for Supply Chain Logistics. Proceedings of the Winter Simulation Conference, New Orleans, Louisiana, pp. 1013-1020
24. Narayanan, S., Dave, R., Ganapathy, S., Narakesari, S., Hill, R., and 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
25. Dave, R., Ganapathy, S., Fendley, M., and 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
26. Ganapathy, S., Narayanan, S., and 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
27. Ganapathy, S., and Narayanan, S. (2003). Decision Support for Supply Chain Analysis. Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics, Washington DC, Volume 3, pp. 2077-2082

POSTERS/ABSTRACTS and EXTERNAL PRESENTATIONS

1. Presented and Hosted UX Dayton (2014). Using Mobile Devices for easy access to info in time critical scenarios.
2. Abhyankar, K. and Ganapathy, S. (2014). Model-Based Simulation Systems for Adaptive Training in Time-Critical Decision Making, INFORMS, San Francisco, CA.
3. Abhyankar, K. and Ganapathy, S. (2014). Model-Based Approach to Understand and Develop Technology-Enhanced System for Engineering Education Research Day, Celebration of Research, Scholarship and Creative Activities, Dayton OH.
4. Comer, A., Smith, L, and Todd, D., Ganapathy, S. (2014). Process Control Data Entry Devices, Research Day, Celebration of Research, Scholarship and Creative Activities, Dayton OH.
5. Invited speaker for both local (Aptima, TDKC, University of Toledo) and national companies (Google, Intel, Emerson Process Management, and Citrix).
6. Abhyankar, K. and Ganapathy, S. (2013). Imagination Augmentation for Knowledge Acquisition Grace Hopper Celebration of Women in Computing, Minneapolis, MN.
7. Workshop on Everyday Digital Money: Innovation in Money Cultures and Technologies, 2008: Security Challenges in Web browsing - e-transactions.
8. IIE Annual Conference, 2008: Experiences and Trends on Energy Conservation in Information Technology segment
9. IIE Annual Conference, 2008: IT Management and Practices of Small Businesses
10. EPIC 2008, IT Management and Practices of Small Business
11. Institute of Industrial Engineers Annual Conference, 2005 Human-Centered Time-Critical Decision Making in Dynamic Multi-Objective Contexts.
12. FROM INVENTION TO MARKET 2003 forum, Wright State University: Integrating Mobile Devices with High Fidelity Computational Models for Future E-Business Applications.

13. Winter Simulation Conference 2003: Human Centered Model-Based Decision Making in Time Critical Systems.
14. Experiences and Trends on Energy Conservation in Information Technology segment. Proceedings of the Institute of Industrial Engineers Annual Conference, Orlando, Florida.
15. IT Management and Practices of Small Businesses. Proceedings of the Institute of Industrial Engineers Annual Conference, Orlando, Florida.

GRANTS AND CONTRACTS

Project Name	Sponsor	Total Funding
1. Ohio-southwest Alliance on Semiconductors and Integrated Scalable-Manufacturing (R. Jha, UC (PI), Co-PIs - S. Ganapathy, G. Subramanyam, UD, K. Singh, MU)	Intel Corporation	\$1.1M
2. Intel Semiconductor Education Program at Central State University (ISEP-CSU) (M. Hadizadeh, CSU (PI), Co-PIs (S. Ganapathy, S. Bibyk, OSU, F. Fuller, SSU)	Intel Corporation	\$1.3M
3. Industry 4.0: Advanced Manufacturing and Cybersecurity (Mian, A. (PI), Co-PIs (R. Srinivasan, S. Ganapathy, M. Rizki, T. Banerjee).	Ohio Department of Higher Education	\$926,250
4. Analogical reasoning for improving AI (PI – S. Ganapathy)	CSR/Sensors Directorate	\$25,000
5. Mission Directed Learning Environment (MiDLE) (PI – S. Ganapathy, M. Cox - WSRI, K. Haverson- Aptima) (RSP # 670432)	Air Force Research Lab	\$3.4 M
6. Improving Human Decision Making in Transfer-of-Care-Continuum 2016-2019 (PI – S. Ganapathy) (RSP # 670098)	Ohio Federal Research Network	\$655,202
7. TENSILITY II – Training for Cybersecurity Vulnerability 2017-2019 (PIs – J. Zhang, S. Ganapathy, & V. Saunders) (RSP#670682)	KBSI/AFRL	\$224,658
8. REU Site: Undergraduate Research in Intelligent Autonomous Vehicles (PI - Xiaodong Zhang, Senior Personnel – S. Ganapathy)	National Science Foundation	\$350,424
9. Dynamic Performance Measurement Tool for Medical Team Training, 2016-2017 (PI – S. Ganapathy) (RSP # 670234)	AFRL/DAGSI	\$43,500
10. CPS EAGER: Intelligent Agent Incident Command System Augmentation, 2015-2017 (PI- S. Ganapathy, Co-PIs –J. Gallagher, M. Cheatham) (RSP # 669819)	National Science Foundation	\$175,000
11. Understanding Human Performance Based on Biometrics for Improving Training, 2015-2016 (PI – S. Ganapathy) (RSP # 669783)	AFRL/DAGSI	\$43,500
12. Incidence Data Mining for Human Error in Plant Operations, 2014-2015 (PI – S. Ganapathy) (RSP #669532)	Center for Operator Performance	\$25,000
13. Image Recognition using Mobile Devices for Informed Decision-making, 2014 (PI – S. Ganapathy) (RSP #669342)	Emerson Process Management	\$25,000
14. Towards a Sustainable Informal Mentoring Initiative for Female STEM Faculty, 2013-2014 (PI- A. Hubbard, Co-PIs- S. Bhandari, S. Ganapathy, N. Rogers, P. Bubulya)	LEADER Consortium (Internal Funding)	\$4,937
15. Consumer Media Data Visualization and Analysis, 2013-2014 (PI – S. Ganapathy) (RSP #669285)	Centum Business Labs Ltd.	\$29,326

16.	Evaluating Design and User Experience in 2-in-1 Ultrabook Detachable, 2013-2014 (PI – S. Ganapathy) (RSP #669152)	Intel Corporation	\$12,000
17.	Intelligent Information Presentation using Mobile Devices, 2013 (PI – S. Ganapathy) (RSP #669063)	Center for Operator Performance	\$35,000
18.	Mobile Intelligent Security and Support, 2012-2013 (PI – S. Ganapathy) (RSP #669033)	Intel Corporation	\$30,000
19.	Gesture Interaction Research Study – Windows 8 , 2012-2013 (PI – S. Ganapathy) (RSP #669024)	Intel Corporation	\$20,000
20.	Security and Usability Analysis - Identity Protection Technology, 2012-2013 (PI – S. Ganapathy) (RSP #669025)	Intel Corporation	\$25,000
21.	Cognitive Framework for Minimally Invasive Surgical Procedures, 2012-2013 (PI – S. Ganapathy) (RSP # 285054)	Internal Funding	\$10,000
22.	Assessing User Interactions in Web-Based Portals for Media Consumption, 2012-2013 (PI – S. Ganapathy) (RSP #668711)	Intel Corporation	\$120,000
23.	User Experience Assessment for Consumer Media consumption, 2011-2012 (PI – S. Ganapathy) (RSP # 668694)	Intel Corporation	\$35,000
24.	User Experience Assessment for Secure Web Transactions, 2011 (PI – S. Ganapathy) (RSP # 668686)	Intel Corporation	\$15,000
	PENDING		
	NSF Engines: Type-1: Innovation Ecosystem for Human-Centered Digital Manufacturing, PI- S. Ganapathy.	NSF	\$999,999

SERVICE

University Committee

- Graduate Faculty Membership Committee, CECS representative, 2021 - Present
- Provost Search Committee, CECS representative, 2022
- Faculty Senate Executive Committee Representative CECS, Faculty Senate 2021-2022
- Faculty Senate Representative CECS, Faculty Senate 2020- 2022
- Undergraduate Academic Policies, Faculty Senate Subcommittee 2019-2021
- General Education/Core Evaluation Committee, Faculty Senate Subcommittee 2015-2016
- Student Success, Faculty Senate Committee, 2014-2015

College Committee

- Chair of the search committee, CSE chair search - 2021
- Undergraduate Curriculum Committee, 2017-2021
- Steering Committee, 2019-2021
- Ad-hoc Strategic Research Committee, 2019-2020
- Faculty Development Committee, 2019-2020
- Ph.D. Program Affairs Committee, 2018-2019
- Engineering Communication Oversight Committee, 2016-2017
- College Undergraduate Petitions Committee, Chair, 2014-2016
- Ph.D. Student Affairs Committee, 2012-2014
- Served on Associate Dean- Research Search Committee, CECS, 2013

Department Committee

- ISE/IHE Program Coordinator – 2019- Present
- IHE Graduate Advisor, 2017-Present

- Served on faculty search committee, Department of Biomedical, Industrial and Human Factors Engineering, 2012
- Program Committee, Industrial and Systems Engineering

Other University Service

- WSU Signage and Wayfinding, Ad-hoc Committee Member, April – September 2014
- Student Member, Academic Integrity Panel, Judicial Affairs, Wright State University, 2003 – 2004

Professional Service

- IISE Student Club Advisor – 2020 – 2022
- Lead Organizer Doctoral Colloquium, IISE 2023 Committee
- Doctoral Colloquium, IISE 2021, 2022 Committee
- Associate Editor, Journal of Simulation and Modeling
- Editorial Board Member, Human Factors and Ergonomics in Manufacturing & Service Industries
- Review Editor for Consumer Neuroergonomics Frontiers in Neuroergonomics
- Review Editor for Neuroscience and Psychology Frontiers for Young Minds
- Technical Committee on Human Computer Interaction, IEEE SMC
- Summer Faculty Fellowship Panel Reviewer, 2016, 2017, 2019
- NSF Ad-hoc Panelist, Cyber Physical Systems, 2015.
- 2015 SMART (Science, Mathematics, & Research for Transformation) Scholarship Evaluation Panelist, National Defense Education Program.
- Cognitive, Neural, and Behavioral Sciences Panelist, 2014 National Defense Science and Engineering Graduate Fellowship Selection, ASEE
- Program Committee, IFAC Symposium, 2013 Las Vegas
- IEEE Section Treasurer, 2011-2012
- Reviewer - Journal of Computers and Operations Research, Journal of Defense Modeling and Simulation, IEEE SMC Systems, Man and Cybernetics, Journal of Mobile Computing
- Session Chair (2013), Engineering Education, Industrial and Systems Engineering Research Sessions, IIE Annual Conference 2013
- Session Chair (2012), Engineering Education, 7th Annual Dayton Engineering Sciences Symposium, Dayton OH.
- Plenary talk (2011), Computing in Education: Transforming Informal Learning into Formal Learning, 3rd International Conference on Advanced Computing
- 2006 AZ Women At Intel Conference, Speaker-Team, Intel Corporation, 2006
- Passed the NCEES Fundamentals of Engineering Exam, 2005
- Acting Track Coordinator, Military Applications, Summer Computer Simulation Conference, 2005
- Session Chair, Military Analysis Using Agent Models, Winter Simulation Conference, 2004
- Session Chair, Emerging Areas: Urban Operations and UCAVs, Winter Simulation Conference, 2003
- Chair, Judicial Review Panel, Judicial Affairs, Wright State University, 2004 – 2006

Community Service

- Tedx Dayton Speaker Committee, 2021
- Mentoring at Tec^Edge, a summer program that gives high school students practical experience in practicing technology, 2014-2015
- Committee for Curriculum Development for Centerville Elementary School, 2014-2016
- Volunteer Coordinator, Dayton Air Show 2003, 2004