

Varadraj “Raj” Prabhu Gurupur, Ph.D.

Mailing Address:

528 W. Livingston Street
DPAC 402K
Orlando, FL 32801

Office Phone: 407-823-5161

Fax: 407-823-6138

Email: varadraj.gurupur@ucf.edu

EDUCATION

Ph.D. in Computer Engineering, University of Alabama at Birmingham, Birmingham, AL 35294	May 2010
Master of Science, Computer and Information Sciences, University of Alabama at Birmingham, Birmingham, AL 35294	December 2005
Bachelor of Engineering, Computer Science & Engineering, Mangalore University, Mangalore, India	February 2002

ACADEMIC AND TECHNICAL WORK EXPERIENCE

- Associate Professor, Department of Health Management and Informatics, University of Central Florida, August 2019 – Present
- Program Director/Coordinator, Master of Science in Healthcare Informatics, University of Central Florida, August 2020 – August 2021.
- Assistant Professor, Department of Health Management and Informatics, University of Central Florida, August 2014 – July 2019
- Walk In Researcher, Veteran’s Affairs, Orlando, FL, August 2015 – July 2018; February 2020 - Present.
- Assistant Professor, Department of Health Informatics and Information Management, Louisiana Tech University, September 2013 – August 2014
- Assistant Professor, Department of Computer Science and Information Systems, Texas A&M University -Commerce, August 2011 – August 2013
- Chief of the Department IT Staff (Information Systems Specialist II), Neurology Chair Office, University of Alabama at Birmingham, October 2010 – July 2011
- Data Manager (Program Coordinator II), Neurology Chair Office, Alzheimer’s Disease Research Center, University of Alabama at Birmingham, April 2007 – October 2010
- Data Processing Specialist, Department of Pharmacy, University of Alabama at Birmingham Hospital, November 2005 – April 2007

- Lecturer, Department of Computer Science & Engineering, Gogte Institute of Technology, India, September 2001 – June 2003

ACADEMIC AWARDS AND HONORS

International Recognition

- Special Recognition Award for 2017 from the Society for Design and Process Science, at the annual SDPS 2017 conference, November 5-9, 2017, Birmingham, AL, 2017.
- Outstanding Service Award for 2016 from the Software Engineering Society, at the annual SDPS 2016 conference, December 4-6, 2016, Orlando, FL.
- SDPS Excellence in Leadership Award for 2011 at the annual SDPS Conference, June 12 – 16, 2011, Jeju Island, South Korea.

National Recognition

- American Health Information Management Association (AHIMA) Triumph Award for Innovation, 2021.
- American Health Information Management Association (AHIMA) Triumph Award for Research, 2017.
- Faculty Adviser/Mentor for the student team that won the 2nd place at HIMSS Case Competition.

Regional Recognition

- Outstanding Engineering Educator, IEEE Orlando Section, for the year 2020.
- Best presentation under the Ph.D. category at the ACM Mid-Southeast Conference 2008, Gatlinburg, Tennessee, November, 20-21, 2008.

State Level Recognition

- Florida Health Information Management Association Literary Award for the year 2016.

Institutional Recognition

- Research Incentive Award, University of Central Florida, 2019.
- Featured Researcher for June 2016, Office of Technology Transfer, University of Central Florida.
- Outstanding Graduate Student in Electrical and Computer Engineering at the University of Alabama at Birmingham for the academic year 2009 – 2010.

Research Fellowship

- Faculty Research Fellow – College of Health and Public Affairs, University of Central Florida, 2014-15.

Other Awards and Honors

- Mentor for the team that won the 2019 Florida Blue Health Innovation Pitch Competition
- Nominated for the Reach for the Stars Award for 2018 with the University of Central Florida.
- Albert Nelson Marquis Lifetime Achievement Award for the year 2017.
- IEEE Senior Member since December 2017.
- Research Recognition, College of Health and Public Affairs, University of Central Florida, 2016-17.

- Research Recognition, College of Health and Public Affairs, University of Central Florida, 2015-16.
- Research Recognition, College of Health and Public Affairs, University of Central Florida, 2014-15.
- UAB Service Award for continuous service at the University of Alabama at Birmingham.
- Nominated for the Outstanding Graduate Engineering Student Award at the University of Alabama at Birmingham for the academic year 2009 – 2010.
- Nominated for the University of Alabama at Birmingham President’s Diversity Award 2010 under the category of Professional Student involved in diverse activities at UAB.
- Award winning Internet Banking System (final year undergraduate project), Manipal Institute of Technology, India, Graduating Year: 2001.

Professional License

- Registered Health Information Administrator (RHIA) 2014-22.

RESEARCH & CREATIVE WORK

FUNDED RESEARCH / PROJECTS

Externally Funded Research/Projects

10. Changes in the Delivery of Evidenced Based Psychotherapies for Depression and PTSD as the Result of COVID-19 Pandemic, Funding Agency: Veterans Affairs (HSR&D #C19 20-396), PI: Diana Mendez, Co-I: Teresa Carper, Co-I: Christian King, Co-I: Andriy V. Koval, Amount: \$28,000, Contribution: (Not Specified; as needed), Period: July 2020 – April 2021, **Role: Consultant**
9. Florida Linking Individuals Needing Care (FL LINC), Funding Agency: Substance Abuse and Mental Health Services Administration (SAMHA), PI: Marc Karver, Co-PI: Kimberly Gryglewicz, Amount in Total: \$3,680,000, Contribution: \$8,000, Active participation period May 2019 – September 2019, **Role: Consultant**
8. National I-Corps Teams: Analyzing Data Completeness and Inconsistency to Reduce Misdiagnosis and Mitigate Re-imburement Errors, Funding Agency: National Science Foundation, Amount in total: \$50,000.00, Contribution: \$47,000.00, Period: 04/28/2019 – 09/30/2020, **Role: Principal Investigator**
7. I-Corps Data Completeness and Data Inconsistency in Healthcare Data, Funding Agency: National Science Foundation (UCF ICORPS program), Amount in total: \$2,550.00, Contribution: \$2,550.00, Period: 10/05/2018 – 05/02/2018, **Role: Principal Investigator**
6. Matching funds: Decision Support System Extracting the ICD 10 Coding Semantics, Funding Agency: Florida High Tech Corridor, Amount in total: \$23,741.00, Period: November, 2017 – December, 2018, **Role: Principal Investigator**
5. Decision Support System Extracting the ICD 10 Coding Semantics, Funding Agency: Tenosar Corporation, Amount in total: \$112,197.00, Contribution: \$112,197.00, Period: July 5 – December 18, 2018, **Role: Principal Investigator**

4. Extending the Features of Strategic Resource Tool, Funding Agency: Tenosar Corporation, Amount in total: \$5,783.00, Contribution: \$5,783.00, Period: July 5 – September, 30 2017, **Role: Principal Investigator**
3. Building the General Computational Model for Identifying Emotional Behavior, Funding Agency: Tenosar Corporation, Amount in total: \$5,000, Contribution: \$5,000, Period: February 2017 – May 2017, **Role: Principal Investigator**
2. Creation Health Principles Integration, Funding Agency: Florida Hospital, Amount in total: \$165,000 / year, Salary Contribution \$5,000, Period: 2015-16, Principal Investigator: Thomas T.H. Wan, PhD, **Role: Consultant**
1. Alzheimer’s Disease Research Center (ADRC) grant, Funding Agency: National Institute of Ageing (NIA), Amount in total: \$1,000,000.00 / year, Salary Contribution: \$37,000 / year, Period: April 2007 – May 2010. Principal Investigator: Daniel C. Marson, PhD, JD, **Role: Data Manager**

Commercialization Success

1. Licensing fee agreement for patent application 1335P205, Mend Family, Amount \$5,000.00. Inventor: **Gurupur, V.**, Co-Inventors: Nasir, A., Liu, X.

Internal Grants Awarded

5. UCF Mid-Career Refresher Award, \$28,454 April 1, 2020 – June 30, 2023, Office of Faculty Excellence, University of Central Florida
4. Faculty Research Initiative Award, 2014-2015, \$2,500, College of Health and Public Affairs, University of Central Florida.
3. Innovative Instruction Mini-Grant, 2013-2014, \$410, College of Applied and Natural Sciences, Louisiana Tech University.
2. Travel Grant, 2013-2014, \$1985, College of Applied and Natural Sciences, Louisiana Tech University.
1. STEM Analysis and Learning Tool (SALT) - Faculty Enhancement Grant, 2012-2013, \$10,666, Graduate School, Texas A&M University-Commerce.

PATENTS

3. Nasir, A., **Gurupur, V.**, Mumtaz, S.U., (2020). Method and System for Managing Chronic Illness Health Care Records, *Status: Non-Provisional Application filed.*
2. Wan, T.T.H., **Gurupur, V.**, (2021). Identifying the Significance of Patient-Centric Factors Leading to Risk Reduction for Hospital Readmission of Heart Failure, Patent No: US 11,017,903 B2, Date Awarded: May 25, 2021
1. **Gurupur, V.**, Nasir, A., Liu, X., (2020). Method and system for managing health care patient record data, US 10,790,049 B2, Date Awarded: September 29, 2020.

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4. Analyzing the state model of the system, Effective Date: October 30, 2018, United States Copyright Office.
3. Source code for Decision Support Method to Map Hierarchical Condition Categories to the ICD 10 codes for Depression, Effective Date: October 4, 2018, United States Copyright Office.
2. UCF Survey Research Tool, Effective Date: August 17, 2018, United States Copyright Office.
1. Dementia and Delirium Analysis Research Tool, Effective Date: April 18, 2016, United States Copyright Office.

PUBLICATIONS

Dissertation

1. “A Framework for Semantic Service Composition: Process-as-a-Concept,” Department of Electrical and Computer Engineering, University of Alabama at Birmingham, Spring 2010. Adviser: Dr. Murat M. Tanik.

Refereed Journal Articles

33. **Gurupur, V.,** Shelleh, M.*, (2021). Machine Learning Analysis for Data Incompleteness (MADI): Analyzing the Data Completeness of Patient Records Using a Random Variable Approach to Predict the Incompleteness of Electronic Health Records, *IEEE Access*, Vol. 9, pp. 95994-96001. DOI: 10.1109/ACCESS.2021.3095240. Journal Impact Factor: 3.745.
32. **Gurupur, V.,** (2021). A Review on Advances in Design and Development of Complex Adaptive Systems for Healthcare Using Concept Maps, *Health Technology*, Vol. 5(2021), pp. 1-6. DOI: 10.21037/ht-21-12.
31. Wan, T.T.H., **Gurupur, V.,** Wang, B.L., Mathews, S., (2021). A Patient-Centric Care Approach to Facilitate the Design of an Artificial Intelligence Application in Geriatric Care Management of Heart Failure Readmissions, *Biomedical Research and Clinical Reviews*, DOI: 10.31579/2692-9406/056.
30. Kulkarni, S.A., Pannu, J.S.*, Koval, A.V., Merrin, G.J., **Gurupur, V.,** Nasir, A*., King, C., Wan, T.T.H., (2021). A Brief Analysis of Key Machine Learning Methods for Predicting Medicare Payments Related to Physical Therapy Practices in the United States, *Information*, Vol 12(2), 57. <https://doi.org/10.3390/info12020057>. Journal Impact Factor: 1.980.
29. Wan, T.T.H., **Gurupur, V.,** (2020). Understanding the Difference between Healthcare Informatics and Healthcare Data Analytics in the Present State of Health Care Management, *Health Services Research & Managerial Epidemiology*, Vol. 7, pp. 1-3.

28. **Gurupur, V.**, and Wan, T.T.H., (2020). Inherent Bias in Artificial Intelligence-Based Decision Support Systems for Healthcare, *Medicina*, 2020 56(3), 141. Journal Impact Factor: 2.430.
27. Asha C.S., Lal, S., **Gurupur, V.**, Saxena, P.U., (2019). Multimodal Medical Image Fusion with Adaptive Weighted Combination of NSST Bands using Chaotic Grey Wolf Optimization, *IEEE Access*, DOI: 10.1109/ACCESS.2019.2908076. Journal Impact Factor: 3.745.
26. Srinivasagopalan, S., Barry, J., **Gurupur, V.**, Thankachan, S.V., (2019). A Deep Learning Approach for Diagnosing Schizophrenic Patients, *Journal of Experimental & Theoretical Artificial Intelligence*, DOI: 10.1080/0952813X.2018.1563636, Journal Impact Factor: 2.039.
25. Raffenaud, A., **Gurupur, V.**, Fernandes, S.L., Yeung, T., (2019). Utilizing Telemedicine in Oncology Settings: Patient Favourability Rates and Perceptions of use Analysis Using Chi-Square and Neural Networks, *Technology and Health Care*, DOI: 10.3233/THC-181293, Journal Impact Factor: 0.806.
24. Steis, M., Unruh, L., **Gurupur, V.**, Shettian, E., Rowe, M., Golden, A., (2019). Family caregivers faced with new acute symptoms: What to do?, *American Journal of Nursing*, Vol. 119(3), pp. 22-29, Journal Impact Factor: 1.838.
23. Wan, T.T.H., **Gurupur, V.**, Patel, A., (2019). A Longitudinal Analysis of Total Pain Scores for a Panel of Patients Treated by Pain Clinics, *Health Services Research & Managerial Epidemiology*, Vol. 6:1-7, DOI: 10.1177/2333392818788420.
22. **Gurupur, V.**, Kulkarni, S.A., Liu, X., Desai, U., Nasir, A*, (2018). Analysing the Power of Deep Learning Techniques Over the Traditional Methods Using Medicare Utilization and Provider Data, *Journal of Experimental & Theoretical Artificial Intelligence*, DOI: 10.1080/0952813X.2018.1518999, Journal Impact Factor: 2.039.
21. Martis R.J., **Gurupur, V.**, Lin, H., Islam, A., Fernandes, S.L., (2018). Recent Advances in Big Data Analytics, Internet of Things and Machine Learning, *Future Generation Computer Systems*, Vol. 88, pp. 696-698, Journal Impact Factor: 6.125.
20. Wan, T.T.H., **Gurupur, V.**, Tanik, M.M., (2017). Editorial: Design and Evaluation of Integrated Healthcare Informatics, *Journal of Integrated Design and Process Science*, Vol. 21(3), pp. 1-5.
19. **Gurupur, V.**, Wan, T.T.H., (2017). Current state and challenges in implementing mHealth: A technical perspective, *mHealth*, DOI: 10.21037/mhealth.2017.07.05.
18. Fernandes, S.L., **Gurupur, V.**, Nayak, R.S., Arunkumar, N., Kadry, S., (2017). A Novel Nonintrusive Decision Support Approach for Heart Rate, *Pattern Recognition Letters*, DOI: <http://dx.doi.org/10.1016/j.patrec.2017.07.002>, Journal Impact Factor: 3.255.
17. Martis, R. J., Lin, H., **Gurupur, V.**, Fernandes, S.L., (2017). Editorial: Frontiers in Development of Intelligent Applications for Medical Imaging Processing and Computer Vision, *Computers in Biology and Medicine*, DOI:10.1016/j.combiomed.2017.06.008, Journal Impact Factor: 3.434.

16. Nasir, A.*, Liu, X., **Gurupur, V.**, Qureshi, Z., (2017). Disparities in Patient Record Completeness with respect to the Health Care Utilization Project, *Health Informatics Journal*, DOI: 0.1177/1460458217716005, Journal Impact Factor: 2.932.
15. Fernandes, S.L., **Gurupur, V.**, Lin, H., Martis, R.J., (2017). A novel fusion approach for early lung cancer detection using computer aided diagnosis techniques, *Journal of Medical Imaging and Health Informatics*, Vol.7(8), pp. 1841–1850, Journal Impact Factor: 0.659.
14. Nasir, A.*, **Gurupur, V.**, Liu, X., (2016). A new paradigm to analyze data completeness of patient data, *Applied Clinical Informatics*, DOI: 10.4338/ACI-2016-04-RA-0063, Journal Impact Factor: 2.342.
13. **Gurupur, V.**, Wan, T.T.H., Malvey, D., Slovinsky, D., (2016). Editorial: Design of Health Information Systems, *Journal of Integrated Design and Process Science*, Vol. 20 (1), pp. 3-6.
12. Clark, S., Elswick, S., Gabriel, M., **Gurupur, V.**, Wisniewski, P., (2016). Transitions of Care: A Patient-Centered Perspective of Health Information Systems that Support Post-Acute Care, *Journal of Integrated Design and Process Science*, Vol. 20(1), pp. 95 – 110.
11. Fernandes, S.L., Chakraborty, B., **Gurupur V.**, Prabhu, A. G., (2016). Early Skin Cancer Detection Using Computer Aided Diagnosis Techniques, *Journal of Integrated Design and Process Science*, DOI: 10.3233/jid-2016-0002.
10. **Gurupur, V.**, Gutierrez, R., (2016). Designing the Right Framework for Healthcare Decision Support, *Journal of Integrated Design and Process Science*, DOI: 10.3233/jid-2016-0001.
9. **Gurupur, V.**, Shettian, K.P. *, Xu, P., Hines, S., Desselles, M., Dhawan M., Anderson, L., Raffenaud, A., Wan, T.T.H., (2016). Identifying the Readiness of Patients in Implementing Telemedicine in Northern Louisiana for an Oncology Practice, *Health Informatics Journal*, DOI: 10.1177/1460458216639740, Journal Impact Factor: 2.932.
8. Hempelmann, C.F., Sakoglu, U., **Gurupur, V.**, Jampana, S., (2016). An Entropy-Based Evaluation Method for Knowledge Bases of Medical Information Systems, *Expert Systems with Applications*, DOI: 10.1016/j.eswa.2015.10.023. Journal Impact Factor: 5.452.
7. **Gurupur, V.**, Jain, G.P. *, Rudraraju, R., (2015). Evaluating Student Learning Using Concept Maps and Markov Chains, *Expert Systems with Applications*, DOI: 10.1016/j.eswa.2014.12.016. Journal Impact Factor: 5.452.
6. Jain, G.P.*, **Gurupur, V.**, Schroeder, J.L., Faulkenberry, E.D., (2014). Artificial Intelligence-Based Student Learning Evaluation: A Concept Map-Based Approach for Analyzing a Student's Understanding of a Topic, *IEEE Transactions on Learning Technologies*, DOI: 10.1109/TLT.2014.2330297. Journal Impact Factor: 2.714.
5. **Gurupur, V.**, Sakoglu, U., Jain, G.P.,* Tanik, U.J., (2014). Semantic Requirements Sharing Approach to Develop Software Systems Using Concept Maps and Information Entropy: A Personal Health Information System Example, *Advances in Engineering Software*, Volume 70, April 2014, pp. 25–35. Journal Impact Factor: 3.884.

4. Karla, P.R.*, **Gurupur, V.**, (2013). C-PHIS: A Concept Map-Based Knowledge Base Framework to Develop Personal Health Information Systems, *Journal of Medical Systems*, 2013, DOI: 10.1007/s10916-013-9970-3. Journal Impact Factor: 3.058.
3. **Gurupur, V.**, Suh, S.C., Selvaggi, R.R., Karla, P.R.,* Nair, J.S., * Ajit, S., * (2012). An Approach for Building a Personal Health Information System Using Conceptual Domain Knowledge, *Journal of Medical Systems*, 2012, Vol. 36, Issue 6, pp. 3685 – 3693. Journal Impact Factor: 3.058.
2. **Gurupur, V.**, Tanik, M.M., (2012). A System for Building Clinical Research Applications using Semantic Web-Based Approach, *Journal of Medical Systems*, 2012, Vol. 36, Issue 1, pp. 53- 59. Journal Impact Factor: 3.058.
1. Tanik, U.J., Grimes, G., Sherman, C.J., **Gurupur, V.**, (2005). An Intelligent Design Framework Proposal Leveraging Axiomatic Design and the Semantic Web, *Journal of Integrated Design and Process Science*, Vol. 9(1), pp. 41-53.

* Student directly worked under my supervision

Journal impact factors were recorded on 06/30/2021 from their official websites

Books

2. Kulkarni, S.A., **Gurupur, V.**, Fernandes, S.L., (2020). Introduction to IoT with Machine Learning and Image Processing using Raspberry Pi, CRC Press. ISBN-13: 978-1-138-54352-2.
1. Suh, S.C., **Gurupur, V.**, Tanik M.M., (Eds), (2011). Biomedical Engineering, Healthcare Systems, Technology and Techniques, *Springer*, 2011, ISBN-13: 978-1461401155.

Special Issues

6. Wan, T.T.H., **Gurupur, V.**, (2020). Artificial Intelligence Research in Healthcare, *Medicina*, ISSN 1010-660X.
5. Martis, R.J., Lin, H., **Gurupur, V.**, Islam, A., Fernandes, S.L., (2018). Recent Advances in Big Data Analytics, Internet of Things and Machine Learning, *Future Generation Computer Systems*, Vol. 81, ISSN: 0167-739X.
4. Wan, T.T.H., **Gurupur, V.**, Tanik, M.M., (2017). Design and Evaluation of Integrated Healthcare Informatics, *Journal of Integrated Design Process Science*, Vol. 21 (3), ISSN: 1092-0617.
3. Martis, R.J., Lin, H., **Gurupur, V.**, Fernandes, S.L., (2017). Frontiers in Development of Intelligent Applications for Medical Imaging Processing and Computer Vision, *Computers in Biology and Medicine*, Vol. 89(1), ISSN: 0010-4825.
2. Martis, R.J., Lin, H., **Gurupur, V.**, Fernandes, S.L., (2017). Frontiers in Development of Intelligent Applications using Soft Computing and Machine Learning, *Journal of Computational Science*, Vol. 21(1), ISSN: 1877-7503.

1. **Gurupur, V.**, Wan, T.T.H., Malvey, D., Slovensky, D., (2016). Design of Health Information Systems, *Journal of Integrated Design and Process Science*, Vol 20(1), ISSN: 1092-0617.

Book Chapters

3. Wisniewski, P., Linton, C., Chokshi, A., Perlingieri, B., **Gurupur, V.**, Gabriel, M., (2018). We Have Built It, But They Have Not Come: Examining the Adoption and Use of Assistive Computing, Technologies for Informal Family Caregivers, *Advances in Intelligent Systems and Vol. 794, Springer*.
2. **Gurupur, V.**, Kamdi, A.S., Tuncer, T., Tanik, M.M., Tanju, M.N., (2011), Enhancing Medical Research Efficiency Using Concept Maps, Editor: Hamid R. Arabnia , *Advances in Experimental Medicine and Biology, Springer*, 2011, Volume 696, Part 7, 581-588, DOI: 10.1007/978-1-4419-7046-6_59 (15% acceptance rate), PMID: 20703749.
1. Higgs, J.A, **Gurupur, V.**, Tanik, M.M., (2011). The Role of Social Computing in Health Services Support, Editors: Sang C. Suh, Murat M. Tanik, and Varadraj P. Gurupur, *Biomedical Engineering, Healthcare Systems, Technology and Techniques, Springer*, 2011, ISBN-13: 978-1461401155.

Technical Reports

1. Gryglewicz, K., Koval, A., McNeil, M., and **Gurupur, V.**, (2019). Youth Suicide in Florida, Prepared for 2021-2023 Florida Suicide Prevention Interagency Action Plan Committee, a planning committee tasked to provide strategic guidelines for the Suicide Prevention Coordinating Counsel (SPCC), Tallahassee, FL.

Peer-Reviewed Articles Published in Conference Proceedings

21. Renduchintala, C., **Gurupur, V.**, Wan, T.T.H., (2020). Data Architecture for Motivation Measurement in a Game-based Rehabilitation System, *Proceedings of the IEEE Southeast Conference 2020*, March 12 -15, Raleigh, NC.
20. Kulkarni, S.A., **Gurupur, V.**, A Case study for Comparing the Difference Between Logistic Regression and K-Nearest Neighbour Using Raspberry Pi for the Purpose of Machine Learning, *Proceedings of SDPS 2019 Conference*, July 28 – August 1, 2019, Taichung, Taiwan.
19. Wisniewski, P., Linton, C., Chokshi, A., Perlingieri, B., **Gurupur, V.**, Gabriel, M., (2018). We Have Built It, But They Have Not Come: Examining Ways to Increase the Adoption and Use of Assistive Technologies for Informal Family Caregivers, *Proceedings of the 9th International Conference on Applied Human Factors and Ergonomics (AHFE 2018)*, July 21 – 25, 2018, Orlando, FL, pp. 824-836. (also published as a book chapter)
18. Nasir A., **Gurupur, V.**, Liu, X., Qureshi, Z., (2015). Managing Healthcare Patient Data Using the Data Completeness Analysis Package (DCAP), *Proceedings of SDPS 2015 Conference*, November 1- 5, 2015, Fort Worth, TX.

17. Rudraraju, R., Najim, L., **Gurupur, V.**, Tanik, M.M., (2014). A Learning Environment Based on Knowledge Storage and Retrieval Using Concept Maps, IEEE Southeast Conference 2014, Lexington, KY, March 13 – 16, 2014.
16. Jain, G.P., **Gurupur, V.**, Faulkenberry, E.D., (2013). Artificial Intelligence Based Student Learning Evaluation Tool, IEEE Educon 2013, Berlin, Germany, March 13-15, 2013, pp. 751 -756.
15. Chammas, N., Juric, R., Koay, N., **Gurupur, V.**, Suh, S.C., (2013). Towards a Software Tool for Preventing Raising Awareness of Diabetic Foot in Diabetic Patients, 46th Hawaii International Conference on System Sciences, Manoa, HI, January 7-10, 2013, pp. 2646 – 2655.
14. Suh, S.C., **Gurupur, V.**, Koay N., Juric, R., Karla, P.R., (2012). Developing a Preventive Healthcare Tool for Alzheimer’s Disease Using Semantic Web Technologies,” *Proceedings of SDPS 2012 Conference*, June 10 -14, 2012, Berlin, Germany.
13. Karla, P.R., **Gurupur, V.**, Suh, S.C., (2012). An Approach to Develop Healthcare Information Systems Using Concept Maps, *Proceedings of SDPS 2012 Conference*, June 10 - 14, 2012, Berlin, Germany.
12. Karla, P.R., Suh, S.C., **Gurupur, V.**, (2012). Encrypting Ontological Meta-Model Using Elliptic Curve Cryptography with Identity Based Encryption, *Proceedings of the 2012 8th International Conference on Computing Technology and Information Management*, pp. 146-149, Seoul, Korea, April 24-26, 2012, ISBN: 978-89-88678-67-1.
11. Karla, P.R., Saffer, S.I., **Gurupur, V.**, Suh, S.C., (2012). Identification of Class of Services in the Internet and a Proposed Approach to Traffic Prioritization at Layer 3, *Proceedings of the IEEE Southeast Conference 2012*, Orlando, FL, March 15-18, 2012.
10. **Gurupur, V.**, Moradi, L.G., Tanik, U.J., (2011). Information Architecture of a Clinical Decision Support System for NASA Life Support Project Advancing STEM, *Proceedings of SDPS 2011 Conference*, Jeju Island, Korea, June 12 – 16, 2011.
9. Robbins, D.E., **Gurupur, V.**, Tanik, U.J., (2011). Information Architecture of a Clinical Decision Support System, *Proceedings of the IEEE Southeast Conference 2011*, pp. 374 - 378, Nashville, TN, March 17-20, 2011.
8. Higgs, J.A., **Gurupur, V.**, Tanik, M.M., (2011). A Transformative Software Development Framework: Reflecting the Paradigm shift in Social Computing, *Proceedings of the IEEE Southeast Conference 2011*, pp. 339-344, Nashville, TN, March 17-20, 2011.
7. **Gurupur, V.**, Tanju, M.N., Tuncer, T., Gattaz, C.C., Tanik, M.M., (2009). Building Semantic Models Using Concept Maps for Medical Research, *Proceedings of the Twelfth SDPS Transdisciplinary Conference-Workshop on Integrated Systems, 2009*, pp. 244- 249, Montgomery, AL, November 1-5, 2009.
6. **Gurupur, V.**, Sadasivam, R.S., (2009). Representing Processes as Concepts: Towards Reducing Semantic Gap, *Proceedings of the Twelfth SDPS Transdisciplinary Conference-Workshop on Integrated Systems, Design and Process Science*, pp. 173- 180, Montgomery,

AL, November 1-5, 2009.

5. **Gurupur, V.,** Tanik, U.J., Tanik, M.M., (2009). Abstract Software Design Framework: An Artificial Intelligence-Based System for Software Systems, *Proceedings of the Twentieth Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2009)*, pp. 20 – 25, Fort Wayne, IN, April 18-19, 2009.
4. **Gurupur, V.,** Tanik, M.M., (2009). Abstract Software Design Framework: A Semantic Service Composition Approach, *Proceedings of the IEEE Southeast Conference 2009*, pp. 295-300, Atlanta, GA, March 5-8, 2009.
3. **Gurupur, V.,** Tanik, U.J., (2008). A Framework for Software Design Automation and Integration Utilizing the Semantic Web, *Proceedings of IDPT Conference in Taiwan*, pp. 450-457, Taichung, Taiwan, June 1-6, 2008.
2. Prabhu, D., **Gurupur, V.,** Tanik, U.J., (2006). Leveraging Web Services for Software Cultivation using Artificial Intelligence Design Framework, *Proceedings of IDPT 2006*, pp. 483-489, San Diego, CA, June 25-30, 2006.
1. Tanik, U.J., Grimes, G.J., Sherman, C.J., **Gurupur, V.,** (2005). An Intelligent Design Framework Proposal Leveraging Axiomatic Design and the Semantic Web, *Proceedings of IDPT Conference in China*, pp. 41-53, Beijing, China, June 12-16, 2005.

Posters

10. Nasir, A., **Gurupur, V.,** (2019). Developing the Provider Consolidation Analysis Package (PCAP): A Study on The Impact of Consolidation on Healthcare In The U.S., SDPS 2019 conference, Taichung, Taiwan, July 28, 2019.
9. Nasir, A., **Gurupur, V.,** (2018). The impact of provider consolidation on healthcare in the United States, *Proceedings of the AMA Research Symposium*, National Harbor, MD, November 9, 2018.
8. Barry, J., Srinivasagoplalan, S., Thankachan, S.V., **Gurupur, V.,** (2018). Diagnosing Schizophrenia: A Deep Learning Approach, *Proceedings of the ACM-BCB 2018 Conference*, Washington, D.C., August 29 – September 1, 2018.
7. Raffenaud, A., Yeung, T., **Gurupur, V.,** (2016). Utilizing Telemedicine in Oncology Settings: Patient Favorability Rates and Perceptions of Use. Annual Research Meeting for Academy Health, Boston, Massachusetts, June 26-28, 2016.
6. Steis, M.R., **Gurupur V.,** Unruh L., Golden A., (2016). Evaluating the Acute Care Needs of HBPC Patients: A Retrospective Review, Veterans Affairs Research Week, Orlando VA Medical Center, Orlando, FL, May 17, 2016.
5. **Gurupur, V.,** Noblin, A., (2015). Using Artificial Intelligence to Improve Teaching and Program Effectiveness in Population Health, AUPHA Annual Conference 2015, Miami, FL, June 3-6, 2015.
4. Hempelmann, C.F., **Gurupur, V.,** Sakoglu, U., (2015). Patient Centred Ontology Development for a Personal Health Information System, American Medical Informatics

- Association, 2015 Joint Summits on Translational Science, San Francisco CA, March 23- 27, 2015.
3. Hempelmann, C.F., **Gurupur, V.**, (2014). A Person-Centered Health Information Delivery Tool for Dementia Caregivers on an Ontological Semantic Basis, *American Medical Informatics Association 2014 Joint Summits on Translational Science*, San Francisco CA, April 7 -11, 2014.
 2. Karla, P., Marapadaga, V., **Gurupur, V.**, (2012). Location Proofing using Identity Based Encryption and the Google Cloud on Mobile Applications, *ACM Southeast conference 2012*, Tuscaloosa, AL, March 29-31, 2012.
 1. **Gurupur, V.**, Tanik, U.J., (2006). Software Cultivation using Artificial Intelligence Design Framework, *ACM Southeast conference 2006*, Melbourne, FL, March 10-12, 2006.

Published Abstracts

12. Koval, A., Mendez, D., King, C., Carper, T., **Gurupur, V.**, Golden, A. (2021). Compliance with Evidenced Based Psychotherapies for Depression and PTSD during the Onset of COVID-19 Pandemic– Preliminary Analysis, Proceedings of the 2021 Annual Research Meeting Academy Health, June 14-17, 2021, *Accepted*.
11. Nasir, A., **Gurupur, V.**, (2018). The impact of provider consolidation on healthcare in the United States, Proceedings of the AMA Research Symposium, National Harbor, MD, November 9, 2018.
10. **Gurupur, V.**, Fernandes, S.L., (2018). Deep Learning Networks for Analyzing Healthcare Data Design Science Research (DSR) 2018: Proceedings of the Workshop on Data Driven Design and Learning, Montreal, Canada, August 23-25, 2018.
9. Barry, J., Srinivasagoplalan, S., Thankachan, S.V., **Gurupur, V.**, (2018). Diagnosing Schizophrenia: A Deep Learning Approach, *Proceedings of the ACM-BCB 2018 Conference*, pp. 549-549, Washington, D.C., August 29 – September 1, 2018.
8. Hempelmann, C.F., **Gurupur, V.**, Sakoglu, U., (2015). Patient Centred Ontology Development for a Personal Health Information System, American Medical Informatics Association 2015 Joint Summits on Translational Science, San Francisco CA, March 23- 27, 2015.
7. **Gurupur, V.**, (2013). Software Engineering Health Information Systems Using Ontologies Generated from Concept Maps, *ACM Mid-Southeast Conference 2013*, Gatlinburg, Tennessee, November, 14-15, 2013.
6. Karla, P., Marapadaga, V., **Gurupur, V.**, (2012). Location Proofing using Identity Based Encryption and the Google Cloud on Mobile Applications, *Proceedings of ACM Southeast conference 2012*, pp. 333 – 334, Tuscaloosa, AL, March 29-31, 2012.
5. **Gurupur, V.**, (2010). Bridging the Semantic Gap in Building Biomedical Information Systems Using Concept Maps, *ACM Mid-Southeast Conference 2010*, Gatlinburg, Tennessee, November, 11-12, 2010.
4. **Gurupur, V.**, (2008). A Transdisciplinary Approach towards Clinical Research Evaluation,

- ACM Mid-Southeast Conference 2008, Gatlinburg, Tennessee, November, 20-21, 2008.
3. **Gurupur, V.**, (2006). A Knowledge Based Engineering Paradigm for Software Component Integration, ACM Mid-Southeast Conference 2006, Gatlinburg, Tennessee, November, 16-17, 2006.
 2. **Gurupur, V.**, Tanik, U.J., (2006). Software Cultivation using Artificial Intelligence Design Framework, *Proceedings of ACM Southeast conference 2006*, pp. 786-787, Melbourne, FL, March 10-12, 2006.
 1. **Gurupur, V.**, (2005). Software Cultivation using Semantic Web Technology, Web Agents, and Knowledge Based Engineering, ACM Mid-Southeast Conference 2005, Gatlinburg, Tennessee, November, 10-11, 2005.

Published Reviews (Non-Peer Reviewed)

39. **Gurupur, V.**, (2019). Review on, “Technology for efficient learner support services in distance education: experiences from developing countries,” Editor: Anjana, Springer International Publishing, New York. Type: Book. *ACM Computing Reviews*, Published Online.
38. **Gurupur, V.**, (2018). Review on, “Compact flow diagrams for state sequences,” Buchin K., Buchin M., Gudmundsson J., Horton M., Sijben S. *Journal of Experimental Algorithmics*, 22, 1-23, 2017. Type: Article. *ACM Computing Reviews*, Published Online.
37. **Gurupur, V.**, (2017). Review on, “Unveiling correlations via mining human-thing interactions in the Web of Things,” Yao L., Sheng Q., Ngu A., Li X., Benattallah B. *ACM Transactions on Intelligent Systems and Technology*, 8 (5): 1-25, 2017. Type: Article. *ACM Computing Reviews*, Published Online.
36. **Gurupur, V.**, (2017). Review on, “Data philanthropy and individual rights,” Taddeo M. *Minds and Machines* 27 (1): 1-5, 2017. Type: Article. *ACM Computing Reviews*, Published Online.
35. **Gurupur, V.**, (2017). Review on, “Inferring directions of undirected social ties”, Zhang J., Wang C., Wang J., Yu J., Chen J., Wang C. *IEEE Transactions on Knowledge and Data Engineering* 28 (12): 3276-3292, 2016. Type: Article. *ACM Computing Reviews*, Published Online.
34. **Gurupur, V.**, (2017). Review on, “Computer supported qualitative research”, Costa A., Reis L., de Sousa F., Moreira A., Lamas D., Springer International Publishing, New York, NY, 2016. 135 pp. Type: Book. *ACM Computing Reviews*, Published Online.
33. **Gurupur, V.**, (2016). Review on, “A platform-oblivious approach for heterogeneous computing: a case study with Monte Carlo-based simulation for medical applications,” Hung S., Tsai M., Huang B., Tu C. *FPGA 2016 (Proceedings of the 2016 ACM/SIGDA International Symposium on Field-Programmable Gate Arrays, Monterey, CA, Feb 21-23, 2016)* 42-47. Type: Proceedings. 2016. *ACM Computing Reviews*, Published Online.
32. **Gurupur, V.**, (2015). Review on, “Evolutionary optimization of cancer treatments in a cancer stem cell context”, Monteagudo Á., Santos J. *GECCO 2015 (Proceedings of the 2015*

- Annual Conference on Genetic and Evolutionary Computation Conference, Madrid, Spain, 233-240. 2015. Type: Proceedings. December 2015. *ACM Computing Reviews*, Published Online.
31. **Gurupur, V.,** (2015). Review on, “Simplifying data disclosure configurations in a cloud computing environment”, Hirschprung R., Toch E., Maimon O. *ACM Transactions on Intelligent Systems and Technology (TIST)* 6 (3): 1-26, 2015. Type: Article. July 2015. *ACM Computing Reviews*, Published Online.
 30. **Gurupur, V.,** (2015). Review on, “Knowledge-based driver assistance systems: traffic situation description and situation feature relevance”, Huelsen M., Springer Vieweg, Wiesbaden, Germany, 2014. Type: Book (978-3-658057-49-7). January 2015, *ACM Computing Reviews*, Published Online.
 29. **Gurupur, V.,** (2014). Review on, “Semantic concept-enriched dependence model for medical information retrieval” Choi S., Choi J., Yoo S., Kim H., Lee Y. *Journal of Biomedical Informatics* 47 18-27, 2014. Type: Article, September 2014, *ACM Computing Reviews*, Published Online.
 28. **Gurupur, V.,** (2014). Review on, “XML and web technologies for data sciences with R”, Nolan D., Lang D., Springer Publishing Company, Incorporated, New York, NY, 2014. 685 pp. Type: Book (978-1-461478-99-7)”, May 16, 2014, *ACM Computing Reviews*, Published Online.
 27. **Gurupur, V.,** (2014). Review on, “Semantic concept-enriched dependence model for medical information retrieval,” Choi S., Choi J., Yoo S., Kim H., Lee Y. *Journal of Biomedical Informatics* 47 18-27, 2014. Type: Article, September 18, 2014, *ACM Computing Reviews*, Published Online.
 26. **Gurupur, V.,** (2014). Review on, “Knowledge-based driver assistance systems: traffic situation description and situation feature relevance Huelsen M., Springer Vieweg, Wiesbaden, Germany, 2014. Type: Book (978-3-658057-49-7)”, January 7, 2015, *ACM Computing Reviews*, Published Online.
 25. **Gurupur, V.,** (2014). Review on, “Effort estimates on web application vulnerability discovery, Holm H., Ekstedt M., Sommestad T. HICSS 2013 (Proceedings of the 46th Hawaii International Conference on System Sciences, Grand Wailea, Maui, HI, Jan 7-10, 2013) 5029-5038. 2013”. Type: Proceedings, March 19, 2014, *ACM Computing Reviews*, Published Online.
 24. **Gurupur, V.,** (2014). Review on, “JavaScript programmer’s reference, Valentine T., Reid J., Apress, Berkeley, CA, 2013. 296 pp. Type: Book (978-1-430246-29-9)”, February 5, 2014, *ACM Computing Reviews*, Published Online.
 23. **Gurupur, V.,** (2014). Review on, “Knowledge and systems science: enabling systemic knowledge synthesis, Nakamori Y., Chapman & Hall/CRC, Boca Raton, FL, 2013. 246 pp. Type: Book (978-1-466593-00-8)”, February 4, 2014, *ACM Computing Reviews*, Published Online.
 22. **Gurupur, V.,** (2014). Review on, “Database concepts (6th ed.) Kroenke D., Auer D., Prentice Hall Press, Upper Saddle River, NJ, 2012. 480 pp. Type: Book (978-0-132742-92-4)”,

January 20, 2014, *ACM Computing Reviews*, Published Online.

21. **Gurupur, V.**, (2013). Review on, “Database design for mere mortals: a hands-on guide to relational database design (3rd ed.) Hernandez M., Addison-Wesley Professional, Upper Saddle River, NJ, 2013. 672 pp. Type: Book (978-0-321884-49-7),” November 8, 2013, *ACM Computing Reviews*, Published Online.
20. **Gurupur, V.**, (2013). Review on, “Touching the future technology for autism? Mintz J., Gyori M., Aagaard M., IOS PRESS, Amsterdam, the Netherlands, 2012. 148 pp. Type: Book (978-1-614991-64-9),” September 18, 2013, *ACM Computing Reviews*, Published Online.
19. **Gurupur, V.**, (2012). Review on, “Achieving interoperability among healthcare standards: building semantic mappings at models level, Khan W., Khattak A., Lee S., Hussain M., Amin B., Latif K. ICUIMC 2012 (Proceedings of the 6th International Conference on Ubiquitous Information Management and Communication, Kuala Lumpur, Malaysia, Feb 20-22, 2012) 1-9. 2012”. Type: Proceedings, December 14, 2012, *ACM Computing Reviews*, Published Online.
18. **Gurupur, V.**, (2012). Review on, “Ontology-based application integration, Paulheim H., Springer Publishing Company, Incorporated, New York, NY, 2011”, *ACM Computing Reviews*, May 24, 2012, Published Online.
17. **Gurupur, V.**, (2012). Review on, “TURF: toward a unified framework of EHR usability, Zhang J., Walji M. Journal of Biomedical Informatics 44 (6): 1056-1067, 2011.” Type: Article, *ACM Computing Reviews*, March 21, 2012, Published Online.
16. **Gurupur, V.**, (2012). Review on, “Software development and professional practice: Dooley J., Apress, Berkeley, CA, 2011,” Book, *ACM Computing Reviews*, March 15, 2012, Published Online.
15. **Gurupur, V.**, (2012). Review on, “The Java EE 6 tutorial: basic concepts (4th ed.)Jendrock E., Evans I., Gollapudi D., Haase K., Srivathsa C., Prentice Hall Press, Upper Saddle River, NJ, 2010.” 600 pp. Type: Book, *ACM Computing Reviews*, January 25, 2012, Published Online.
14. **Gurupur, V.**, (2011). Review on, “Emergent Web Intelligence: Advanced Semantic Technologies, Badr Y., Chbeir R., Abraham A., Hassanien A., Springer Publishing Company, Incorporated, New York, NY, 2010.” 544 pp. Type: Book, *ACM Computing Reviews*, January 20, 2011, Published Online.
13. **Gurupur, V.**, (2010). Review on, “Semantic Web information management : a model-based perspective, Virgilio R., Giunchiglia F., Tanca L., Springer Publishing Company, Incorporated, New York, NY, 2009.” 549 pp. Type: Book, *ACM Computing Reviews*, July 29, 2010, Published Online.
12. **Gurupur, V.**, (2010). Review on, “The impact of cognitive machines on complex decisions and organizational change, Nobre F., Tobias A., Walker D. AI & Society 24 (4): 365-381, 2009.” Type: Article, *ACM Computing Reviews*, June 23, 2010, Published Online.

11. **Gurupur, V.**, (2010). Review on, “A distributed, service-based framework for knowledge applications with multimedia, Dupplaw D., Dasmahapatra S., Hu B., Lewis P., Shadbolt N. *ACM Transactions on Information Systems* 27 (4): 1-29, 2009.” Type: Article, *ACM Computing Reviews*, May 21 2010, Published Online.
10. **Gurupur, V.**, (2010). Review on, “Essential Facebook development: build successful applications for the Facebook platform, Maver J., Popp C., Addison-Wesley Professional, Upper Saddle River, NJ, 2010.” 480 pp. Type: Book, *ACM Computing Reviews*, March 25, 2010, Published Online.
9. **Gurupur, V.**, (2010). Review on, “Artificial life models in software (2nd ed.), Komosinski M., Adamatzky A., Springer Publishing Company, Incorporated, 2009” 442 pp. Type: Book, *ACM Computing Reviews*, February 26, 2010, Published Online.
8. **Gurupur, V.**, (2009). Review on, “Beginning iPhone development: Exploring the iPhone SDK Mark D., LaMarche J., Apress, Berkeley, CA, 2009.” 536 pp. Type: Book, *ACM Computing Reviews*, January 25, 2009, Published Online.
7. **Gurupur, V.**, (2009). Review on, “Advances in Web semantics I: ontologies, Web services and applied semantic Web, Dillon T. (ed), Chang E. (ed), Meersman R. (ed), Sycara K. (ed) Springer-Verlag, Berlin, Heidelberg, 2009.” Type: Divisible Book, *ACM Computing Reviews*, November 10, 2009, Published Online.
6. **Gurupur, V.**, (2009). Review on, “Pervasive healthcare computing: EMR/EHR, wireless and health monitoring, Varshney U., Springer Publishing Company, Incorporated, 2009.” 288 pp. Type: Book, *ACM Computing Reviews*, October 8, 2009, Published Online.
5. **Gurupur, V.**, (2009). Review on, “Implementing automated software testing: how to save time and lower costs while raising quality, Dustin E., Garrett T., Gauf B., Addison-Wesley Professional, 2009.” 368 pp. Type: Book, *ACM Computing Reviews*, September 8, 2009, Published Online.
4. **Gurupur, V.**, (2009). Review on, “Disability, age, and informational privacy attitudes in quality of life technology applications: results from a national Web survey, Beach S., Schulz R., Downs J., Matthews J., Barron B., Seelman K. *ACM Transactions on Accessible Computing (TACCESS)* 2: (1): 1-21, 2009.” Type: Article, *ACM Computing Reviews*, September 3, 2009, Published Online.
3. **Gurupur, V.**, (2009). Review on, “Learning in communities: interdisciplinary perspectives on human centered information technology, Carroll J. (ed), Springer Publishing Company, Incorporated, 2009.” 264 pp. Type: Book, *ACM Computing Reviews*, September 2 2009, Published Online.
2. **Gurupur, V.**, (2009). Review on, “Using social data as context for making recommendations: an ontology based approach, Noor S., Martinez K. *Context, information and ontologies (Proceedings of the 1st Workshop on Context, Information and Ontologies, Heraklion, Greece, June 1, 2009)* 1-8. 2009.” Type: Proceedings, *ACM Computing Reviews*, July 27 2009, Published Online.
1. **Gurupur, V.**, (2009). Review on, “Pairwise ANFIS approach to determining the disorder degree of obstructive sleep apnea syndrome,” Polat K., Yosunkaya S., Güne S. *Journal*

of Medical Systems 32: (5): 379-387, 2008. Type: Article, *ACM Computing Reviews*, July 15, 2009, Published Online.

PRESENTATIONS

Invited Talks

14. "A Few Advanced Health Informatics Concepts", Università Cattolica del Sacro Cuore, Rome, Italy, April 23, 2021.
13. "Introducing Health Informatics Concepts", Università Cattolica del Sacro Cuore, Rome, Italy, April 22, 2021.
12. "Importance of Transdisciplinary Research," Sanjivani Group of Institutes, Online, October 24, 2020.
11. "Challenges in Implementing Telemedicine in United States," CAHOTECH 2020, Online Conference, September 25, 2020.
10. "Advances in Healthcare Informatics", Healthcare Systems Engineering Seminar, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, FL, October 17, 2019.
9. "Health Informatics, Knowledge Curation, and Intelligent Information Systems," Valencia College, Orlando, FL, March 28, 2019.
8. "Knowledge Curation: Extracting Important Information from Big Data to Synthesize Intelligent Information Systems," Public Administration Research Conference, University of Central Florida, Orlando, FL, March 1, 2019.
7. "My Important Contributions to Data Science," Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, FL, May 11, 2018.
6. "The Future of Telemedicine," Telemedicine in Healthcare Delivery Systems - American College of HealthCare Executives (ACHE), Orlando, FL, May 26, 2017.
5. "Data Management Problems and Possible Solutions," Annual Convention of the Florida Health Information Management Association (FHIMA), Orlando, FL, July 20, 2016.
4. "The Role of Data Semantics in Clinical Decision Support," Central Florida Health Information Management Association (CFHIMA), South Seminole Hospital, Longwood, FL, April 30, 2015.
3. "Concept Mapping for Information Representation and Analysing Large Insurance Claims Data Sets," School of Medicine, University of Central Florida, Orlando, FL, April 2, 2015.
2. "Software Engineering Health Information Systems Using Concept Maps", The University of Alabama at Birmingham, Birmingham, AL, March 19, 2014.
1. "The ADRC Online Web-Based Dataset: A New Dementia Research Resource at UAB,"

Peer Reviewed Presentations

34. Koval, A. V., Mendez, D. M., King, C., Carper, T., **Gurupur, V.**, and Golden, A. G. (2021). Compliance with Evidenced Based Psychotherapies for Depression and PTSD during the Onset of COVID-19 Pandemic– Preliminary Analysis. Academy Health 2021 Annual Research Meeting, June 14-17, 2021.
33. Renduchintala, C., **Gurupur, V.**, Wan, T.T.H., (2020). Data Architecture for Motivation Measurement in a Game-based Rehabilitation System, March 27, 2020 (Presented Online due to COVID 19 outbreak).
32. Kulkarni, S.A., **Gurupur, V.**, (2019). A Case study for Comparing the Difference Between Logistic Regression and K-Nearest Neighbour Using Raspberry Pi for the Purpose of Machine Learning, *Proceedings of SDPS 2019 Conference*, July 29, 2019.
31. Nasir, A., **Gurupur, V.**, (2018). The impact of provider consolidation on healthcare in the United States, Proceedings of the AMA Research Symposium, National Harbor, MD, November 9, 2018.
30. Barry, J., Srinivasagopalan, S., Thankachan, S.V., **Gurupur, V.**, (2018). Diagnosing Schizophrenia: A Deep Learning Approach, Proceedings of the ACM-BCB 2018 Conference, Washington, D.C., August 29 – September 1, 2018.
29. **Gurupur, V.**, Fernandes, S.L., (2018). Deep Learning Networks for Analyzing Healthcare DataDesign Science Research (DSR) 2018: Workshop on Data Driven Design and Learning, Montreal, Canada, August 23-25, 2018.
28. Wisniewski, P., Linton, C., Chokshi, A., Perlingieri, B., **Gurupur, V.**, Gabriel, M., (2018). We Have Built It, But They Have Not Come: Examining Ways to Increase the Adoption and Use of Assistive Technologies for Informal Family Caregivers, *Proceedings of the 9th International Conference on Applied Human Factors and Ergonomics (AHFE 2018)*, Orlando, FL, July 21 – 25, 2018.
27. **Gurupur, V.**, Use of Artificial Intelligence-Based Tools in Meeting Course Objectives for Health Informatics, HIMSS Annual Conference, Orlando, FL, Feb 19-23, 2017.
26. Raffenaud, A., Yeung, T., **Gurupur, V.**, Utilizing Telemedicine in Oncology Settings: Patient Favorability Rates and Perceptions of Use. Annual Research Meeting for Academy Health, Boston, Massachusetts, June 26-28, 2016.
25. Steis, M.R., **Gurupur V.**, Unruh L., Golden A., Evaluating the Acute Care Needs of HBPC Patients: A Retrospective Review, Veterans Affairs Research Week, Orlando VA Medical Center, Orlando, FL, May 17, 2016.
24. Nasir A., **Gurupur, V.**, Liu, X., Qureshi, X., Managing Healthcare Patient Data Using the Data Completeness Analysis Package (DCAP), Fort Worth, TX, November 1- 5, 2015.

23. Noblin, A., **Gurupur, V.**, Evaluation of RHIA Results Using Concept Maps and Statistical Methods, 2015 Assembly on Education Symposium/Faculty Development Institute, Austin, TX, July 18-22, 2015.
22. **Gurupur, V.**, Noblin, A., Using Artificial Intelligence to Improve Teaching and Program Effectiveness in Population Health, AUPHA Annual Conference 2015, Miami, FL, June 3-6, 2015.
21. Hempelmann, C.F., **Gurupur, V.**, Sakoglu, U., Patient Centred Ontology Development for a Personal Health Information System, American Medical Informatics Association 2015 Joint Summits on Translational Science, San Francisco CA, March 23- 27, 2015.
20. Rudraju, R., Najim, L., **Gurupur, V.**, Tanik, M.M., A Learning Environment Based on Knowledge Storage and Retrieval Using Concept Maps, IEEE Southeast Conference 2014, Lexington, KY, March 13 – 16, 2014.
19. **Gurupur, V.**, Software Engineering Health Information Systems Using Ontologies Generated from Concept Maps, ACM Mid-Southeast Conference 2013, Gatlinburg, Tennessee, November, 14-15, 2013.
18. Chammas, N., Juric, R., Koay, N., **Gurupur, V.**, Suh, S.C., Towards a Software Tool for Preventing Raising Awareness of Diabetic Foot in Diabetic Patients, 46th Hawaii International Conference on System Sciences, Manoa, HI, January 7-10, 2013.
17. Jain, G.P., **Gurupur, V.**, Faulkenberry, E.D., Artificial Intelligence Based Student Learning Evaluation Tool, IEEE Educon 2013, Berlin, Germany, March 13-15, 2013.
16. Karla, P.R., **Gurupur, V.**, Suh, S.C., An Approach to Develop Healthcare Information Systems Using Concept Maps, SDPS 2012 Conference, June 10 -14, 2012, Berlin, Germany, June 10 -14, 2012.
15. Karla, P.R., Suh, S.C., **Gurupur, V.**, Encrypting Ontological Meta-Model Using Elliptic Curve Cryptography with Identity Based Encryption, 8th International Conference on Computing Technology and Information Management, Seoul, Korea, April 24-26, 2012.
14. Karla, P.R., Saffer, S.I., **Gurupur, V.**, Suh, S.C., Identification of Class of Services in the Internet and a Proposed Approach to Traffic Prioritization at Layer 3, IEEE Southeast Conference 2012, Orlando, FL, March 15-18, 2012.
13. Suh, S.C., **Gurupur, V.**, Koay N., Juric, R., Karla, P.R., Developing a Preventive Healthcare Tool for Alzheimer's Disease Using Semantic Web Technologies, SDPS 2012 Conference, June 10 -14, 2012, Berlin, Germany.
12. Robbins, D.E., **Gurupur, V.**, Tanik, U.J., Information Architecture of a Clinical Decision Support System, IEEE Southeast Conference 2011, Nashville, TN, March 17-20, 2011.
11. Higgs, J.A., **Gurupur, V.**, Tanik, M.M., A Transformative Software Development Framework: Reflecting the Paradigm shift in Social Computing, IEEE Southeast Conference 2011, Nashville, TN, March 17-20, 2011.

10. **Gurupur, V.**, Bridging the Semantic Gap in Building Biomedical Information Systems Using Concept Maps, ACM Mid-Southeast Conference 2010, Gatlinburg, Tennessee, November, 11-12, 2010.
9. **Gurupur, V.**, Building Applications Representing Processes as Concepts, 15th SDPS Conference, Dallas, TX, June 6 – 11, 2010.
8. **Gurupur, V.**, Sadasivam, R.S., Representing Processes as Concepts: Towards Reducing Semantic Gap, Twelfth SDPS Transdisciplinary Conference-Workshop on Integrated Systems, Design and Process Science, Montgomery, AL, November, 1-5, 2009.
7. **Gurupur, V.**, Tanju, M.N., Tuncer, T., Gattaz, C.C., Tanik, M.M., Building Semantic Models Using Concept Maps for Medical Research, Twelfth SDPS Transdisciplinary Conference-Workshop on Integrated Systems, Design and Process Science, Montgomery, AL, November, 1-5, 2009.
6. **Gurupur, V.**, Tanik, U.J., Tanik, M.M., Abstract Software Design Framework: An Artificial Intelligence-Based System for Software Systems, Twentieth Midwest Artificial Intelligence and Cognitive Science Conference (MAICS 2009), Fort Wayne, Indiana, April 18-19, 2009.
5. **Gurupur, V.**, Tanik, M.M., Abstract Software Design Framework: A Semantic Service Composition Approach, IEEE Southeast Conference, Atlanta, Georgia, March 6-8, 2009.
4. **Gurupur, V.**, A Transdisciplinary Approach towards Clinical Research Evaluation, ACM Mid-Southeast Conference 2008, Gatlinburg, Tennessee, November, 20-21, 2008.
3. **Gurupur, V.**, A Knowledge Based Engineering Paradigm for Software Component Integration, ACM Mid-Southeast Conference 2006, Gatlinburg, Tennessee, November, 16-17, 2006.
2. **Gurupur, V.**, Tanik, U.J., Software Cultivation using Semantic Web Technology, Web Agents, and Knowledge Based Engineering, ACM Mid-Southeast Conference 2005, Gatlinburg, Tennessee, November, 10-11, 2005.
1. Tanik, U.J., Grimes, G., “Intelligent Design Framework for Optical Backplane Engineering,” IEEE Southeast Conference 2005, Fort Lauderdale, Florida, April, 8-10, 2005.

Workshop Presentations

5. **Gurupur, V.**, Wan, T., Nasir, A., Jololian, L., Innovative Design and Data Science Research, SDPS 2019 Conference, Taichung, Taiwan, July 28, 2019.
4. Wan, T., **Gurupur, V.**, Advances in Clinical Decision Support Systems, SDPS 2017 Conference, Birmingham, AL, November 6, 2017.
3. Wan, T., **Gurupur, V.**, Human Factors and Clinical Decision Support Systems, SDPS 2016 Conference, Orlando, FL, December 4, 2016.
2. Kim, K-Y., **Gurupur, V.**, Then, P., Zeng, Y., Unhelkar, B., Arntzen, A.A.B., The SDPS Journal on Integrated Design and Process Science, SDPS 2016 Conference, Orlando, FL, December 4, 2016.

1. Zeng, Y., Kim, K-Y., **Gurupur, V.**, Xiong, F., Then, P., The SDPS Journal on Integrated Design and Process Science, SDPS 2015 Conference, Fort Worth, TX, November 1- 5, 2015.

NOTABLE RESEARCH IMPACTS

- The technical report titled, “Youth Suicide in Florida” was submitted to the Florida state legislature.
- Establishing the Decision Support Systems and Informatics Lab with the University of Central Florida to advance the science of developing decision support systems.
- AISLE was used to successfully test the identification of the course activities in the undergraduate Health Information Management program with the University of Central Florida that impacted the score in the RHIA exam.
- The journal article on Evaluating Student Learning Using Concept Maps and Markov Chains published with Expert Systems with Applications has more than 1000 views/downloads.
- The journal article on An Entropy-Based Evaluation Method for Knowledge Bases of Medical Information Systems has more than 1000 views/downloads.
- Published two articles in Expert Systems with Applications which was ranked #1 in the area of Artificial Intelligence by Google Scholar in the year 2017.
- Kery Ernst-BioMedLib listed “An Approach for Building a Personal Health Information System Using Conceptual Domain Knowledge” published with the Journal of Medical Systems as the top cited article for the domain as of July 8, 2015.
- Kery Ernst-BioMedLib listed “C-PHIS: A Concept Map-Based Knowledge Base Framework to Develop Personal Health Information Systems” published with the Journal of Medical Systems as the 2nd best cited article for the domain as of July 8, 2015.

PROJECT WORK UNDERTAKEN

Community-Based Funded Projects

- Data analysis of the treatment modalities for Veterans suffering from PTSD
- Data analysis for the Florida suicide prevention program
- STEM Analysis and Learning Tool (SALT): A Collaborative Approach in Enhancing STEM Education
- Dementia and Delirium Analysis and Research Tool (DDART)
- Caring for Caregivers: Available Tools and Technologies that Aid Caregivers of Demented Patients
- Computational Model for Identifying Emotional Behavior

Community-Based Non-Funded Projects

- Whole Health program for Veterans with Veterans Affairs at Lake Nona facility
- Identifying the bottlenecks in implementing Telemedicine in Northern Louisiana
- Software Tool for Identifying the factors for hospital re-admissions for patients with cardiac problems

- Identifying disparities in data completeness of electronic health records using the HealthCare Utilization Project data

Software-Centered Projects

- C-PHIS: A Concept Map-Based Personal Health Information System
- Artificial Intelligence-Based Student Learning Evaluation (AISLE)
- Data Completeness Analysis Package (DCAP)
- ICD 10 Decision Support System
- UCF Survey Resource Tool

TEACHING & MENTORING

STUDENT MENTORING

Doctoral Dissertation

- *Committee Chair*, Chaitanya Renduchintala, Institute for Modelling and Simulation, University of Central Florida.
- *Committee Member*, Paniz Abedin, Department of Computer Science, University of Central Florida.
- *Committee Member*, Sahar Hooshmand, Department of Computer Science, University of Central Florida.
- *Committee Member*, Anthony Dixon, Department of Industrial Engineering and Management Systems, University of Central Florida.
- *Committee Member*, Satya Prakash, Department of Information Technology, Indian Institute of Information Technology, Allahabad, India.
- *Committee Member*, Kruparaj M. Shettian, College of Health and Public Affairs, University of Central Florida, Graduated: August 2017.
- *Committee Member*, Waleed Kattan, College of Health and Public Affairs, University of Central Florida, Graduated: May 2017.
- *Committee Member*, Ramaraju Rudraraju, Department of Electrical and Computer Engineering, The University of Alabama at Birmingham, Graduated: December 2016.
- *Committee Member*, Ananth Prabhu, Computer Science and Engineering, Visvesvaraya Technological University, Graduated: December 2015.
- *Committee Member*, Jerry A. Higgs, Department of Electrical and Computer Engineering, The University of Alabama at Birmingham, Graduated: May 2013.
- *Committee Member*, Rachel Mustonen, College of Health and Public Affairs, University of Central Florida.

Master's Thesis

- *Committee Member*, Justin Barry, Department of Computer Science, University of Central Florida, Fall 2018 – Present.
- *Advisor*, Pramukh R. Karla, Department of Computer Science and Information Systems, Texas A&M University – Commerce, Graduated: May 2013.
- *Committee Member*, Nahed Alnash, Department of Computer Science and Information Systems Texas A&M University – Commerce, Graduated: December 2012.

Graduate Research Assistants / Graduate Assistants

** indicates student recruited through the FIRE mentor program from the UCF College of Medicine*

- Muhammed Shelleh, Department of Health Management and Informatics, University of Central Florida, Spring 2021.
- Chaitanya Renduchintala, Department of Health Management and Informatics, University of Central Florida, Fall 2019 – Spring 2020.
- Akhil Khan*, College of Medicine, University of Central Florida, Fall 2019 – Present.
- Jodh Singh Pannu, Department of Health Management and Informatics, University of Central Florida, Summer 2019.
- Adrian Andrews, Department of Health Management and Informatics, University of Central Florida, Fall 2018 – Summer 2019.
- Alexander Gartland*, College of Medicine, University of Central Florida, Fall 2018 – Present.
- Daniel Gibney, Department of Health Management and Informatics, University of Central Florida, Summer 2018.
- Shiven Goel, Department of Health Management and Informatics, University of Central Florida, Summer 2018.
- Justin Barry, Department of Health Management and Informatics, University of Central Florida, Summer 2018 - Present.
- Mohit Vyas, Department of Health Management and Informatics, University of Central Florida, Fall 2017 – Spring 2018.
- Mukul Dang, Department of Health Management and Informatics, University of Central Florida, Summer 2017 – Spring 2018.
- Nisarg Chitaliya, Department of Health Management and Informatics, University of Central Florida, Spring 2017 – Spring 2018.
- Waleed Kattan, College of Health and Public Affairs, University of Central Florida, Summer 2016.
- Gunjan S. Kulkarni, Department of Health Management and Informatics, University of Central Florida, Spring 2016.
- Ayan Nasir*, College of Medicine, University of Central Florida, Fall 2016 – Spring 2018.
- Bhakti V. Bhole, Department of Computer Science and Information Systems, Texas A&M University – Commerce, Summer 2013.
- G. Pankaj Jain, Department of Computer Science and Information Systems, Texas A&M University – Commerce, Fall 2012 – Spring 2013.
- Pramukh R. Karla, Department of Computer Science and Information Systems, Texas A&M University – Commerce, Fall 2011 – Spring 2013.
- Shilpa Ajit, Department of Computer Science and Information Systems, Texas A&M University – Commerce, Fall 2011.
- Jayalekshmi S. Nair, Department of Computer Science and Information Systems, Texas A&M University – Commerce, Fall 2011.

Undergraduate Research Assistants

- Ayan Nasir, University of Central Florida, Spring 2015 – Summer 2016.
- Emilia Shettian, Department of Health Management and Informatics, University of

- Central Florida, Spring 2015.
- Justin W. Lisbon, Department of Computer Science and Information Systems, Texas A&M University – Commerce, Summer 2013.

Post-Doctoral Mentoring

- Shrirang A. Kulkarni, School of Global Health Management and Informatics, University of Central Florida, 2021 – Present.

Faculty Mentoring

- Faculty mentor to Dr. Andriy V. Koval, Assistant Professor, Department of Health Management and Informatics, University of Central Florida, 2019 – 2021.

Mentoring Achievements

- Tyler Winterfeld and Nicholas Martinez won the 2nd place in HIMSS Case Study competition.
- Ayan Nasir published four journal articles two as a first author in Applied Clinical Informatics and Health Informatics Journal, and two as a co-author.
- Ayan Nasir won the best doctoral research award at the SDPS 2019 conference in Taichung, Taiwan.
- Ayan Nasir won the third place in poster presentation competition at the SDPS 2019 conference in Taichung, Taiwan.
- Ayan Nasir and Akhil Khan won the 2019 Florida Blue Health Innovation Pitch Competition.

COURSES TAUGHT

Department of Health Management and Informatics, University of Central Florida

HSA 6197C – Healthcare Informatics for Healthcare Leaders
 HIM 6119C – Biostatistics and Decision Analysis
 HIM 6122C – System Analysis and Design
 HSA 4702- Health Science Research Methods
 HIM 6124C- Healthcare Data Architecture and Modeling
 HIM 4656- Health Information Management Systems
 HSA 4191 – Fundamentals of Health Information Technology
 HSA 6908 – Independent Study

Department of Industrial Engineering and Management Systems, University of Central Florida

HSC 6636 – Issues and Trends in Health Professions

Institute for Simulation and Training, University of central Florida

IDS7919- Dissertation Research

Department of Health Informatics and Information Management, Louisiana Tech University

HIM 501 – Health Information Network Systems
 HIM 435 – Health Informatics and Information Management
 HIM 350 – Data Management in Healthcare
 HIM 502 – Database Architecture
 HIM 330 – Systems Analysis in Healthcare

HIM 333 – Introduction to Epidemiology and Applied Statistics
HIM 521 – EHR Infrastructure

Department of Computer Science and Information Systems, Texas A&M University - Commerce

CSCI 528/428 – Object Oriented Programming
CSCI 430 – Operating Systems
CSCI 359 – Systems Analysis and Design
CSCI 595 – Research, Literature and Techniques
CSCI 497 – Service Engineering and Semantic Web (**new course created**)

SERVICE

Reviewer for Journal Submissions

- *Reviewer for ACM Computing Reviews*, ISSN 1530-6586.
- *Ad Hoc Reviewer*, Journal of Clinical Laboratory Analysis, ISSN 1098-2825.
- *Ad Hoc Reviewer*, IEEE Access, ISSN 2169-3536.
- *Ad Hoc Reviewer*, IEEE Transactions on Learning Technologies, ISSN 1939-1382.
- *Ad Hoc Reviewer*, Journal of American Medical Informatics Association, ISSN 1067-5027.
- *Ad Hoc Reviewer*, Computer Methods and Programs in Biomedicine, ISSN 0169-2607.
- *Ad Hoc Reviewer*, Concurrency and Computation Practice and Experience, ISSN 1532-0634.
- *Ad Hoc Reviewer*, Journal of Experimental & Theoretical Artificial Intelligence, ISSN 0952-813X.
- *Ad Hoc Reviewer*, International Journal of Communication Systems, ISSN 1099-1131.
- *Ad Hoc Reviewer*, IEEE Journal of Biomedical and Health Informatics, ISSN 2168-2194.
- *Ad Hoc Reviewer*, Medical Sciences, ISSN 2076-3271.
- *Ad Hoc Reviewer*, Algorithms, ISSN 1999-4893.
- *Ad Hoc Reviewer*, Arabian Journal for Science and Engineering, ISSN: 2193-567X.
- *Ad Hoc Reviewer*, Journal of Medical Systems, ISSN 0148-5598.
- *Ad Hoc Reviewer*, Journal of Medical Imaging and Health Informatics, ISSN 2156-7018.
- *Ad Hoc Reviewer*, Telemedicine and e-Health, ISSN 1530-5627.
- *Ad Hoc Reviewer*, Journal of Health Informatics and Management, ISSN: 2322-1097.
- *Ad Hoc Reviewer*, Health Informatics Journal, ISSN: 1460-4582.
- *Ad Hoc Reviewer*, Entropy, ISSN: 1099-4300.
- *Ad Hoc Reviewer*, Symmetry, ISSN: 2073-8994.
- *Ad Hoc Reviewer*, Military Medical Research, ISSN 2054-9369.
- *Ad Hoc Reviewer*, Journal of Integrated Design & Process Science: Transactions of the SDPS, ISSN 1092-0617.
- *Ad Hoc Reviewer*, IET Software, ISSN 1751-8806.
- *Ad Hoc Reviewer*, Turkish Journal of Electrical Engineering and Computer Sciences, ISSN 1300-0632.
- *Ad Hoc Reviewer*, Expert Systems with Applications, ISSN 0957-4174.
- *Ad Hoc Reviewer*, Applied Clinical Informatics, ISSN 1869-0327.
- *Ad Hoc Reviewer*, International Journal of Library and Information Science, ISSN 2141-2537.
- *Ad Hoc Reviewer*, Computer Methods in Biomechanics and Biomedical Engineering:

Imaging & Visualization, ISSN: 2168-1163.

Reviewer for Grant Application

- *Reviewer*, Mijn ZonMw, Netherlands, January 2021.
- *Reviewer*, KCALSI Blue KC Outcomes Research Grant, January 2016.

Editorial Service

- *Associate Editor*, Journal of Integrative Medicine, ISSN: 2095-4964, 2019 – Present.
- *Associate Editor*, Journal of Integrated Design Process Science: Transactions of the SDPS, 2019 – Present.
- *Member*, Editorial Committee, Journal of Medical Artificial Intelligence, ISSN: 2617-2496.
- *Member*, Editorial Committee, Heliyon, ISSN: 2405-8440, 2017 - 2019.
- *Guest Editor*, Special Issue on Artificial Intelligence Research in Healthcare, Medicina, 2020.
- *Guest Editor*, Special Issue on Recent Advances in Big Data Analytics, Internet of Things and Machine Learning, Future Generation Computer Systems, 2017.
- *Guest Editor*, Special Issue on Design and Evaluation of Integrated Healthcare Informatics, Journal of Integrated Design Process Science: Transactions of the SDPS, 2017.
- *Guest Editor*, Special Issue on Frontiers in Development of Intelligent Applications for Medical Imaging Processing and Computer Vision, Computers in Biology and Medicine, 2016 -2017.
- *Guest Editor*, Special Issue on Development of Intelligent Applications using Soft Computing and Machine Learning, Journal of Computational Science, 2016 -2017.
- *Guest Editor*, Special Issue on Intelligent Pattern Recognition Applications for Computer Vision and Biomedical Signal Processing, Pattern Recognition Letters, 2016 – 2017.
- *Guest Editor*, Special Issue on Design of Health Information Systems, Journal of Integrated Design Process Science: Transactions of the SDPS, 2016.

Reviewer for Conference Submissions

- *Reviewer*, IEEE ICHMS 2021 Conference, 8-10 September 2021, Magdeburg, Germany.
- *Reviewer*, American Medical Informatics Association 2020 Annual Meeting, November 14-18, 2020, Chicago, IL.
- *Reviewer*, IEEE Southeast Conference 2020, March 12 -15, 2020, Raleigh, NC.
- *Reviewer*, IEEE Southeast Conference 2019, April 11 – 14, 2019, Huntsville, AL.
- *Reviewer*, American Medical Informatics Association 2019 Informatics Summit, March 25-28, 2019, San Francisco, CA.
- *Reviewer*, 52nd Hawaii International Conference on System Sciences (HICSS-52), January 8 – 11, 2019, Grand Wailea, Maui, HI.
- *Reviewer*, American Medical Informatics Association Annual Symposium 2018, November 3-7, 2018, San Francisco, CA.
- *Reviewer*, IEEE Southeast Conference 2018, April 19-22, 2018, Tampa, FL.
- *Reviewer*, American Medical Informatics Association 2018 Joint Summits on Translational Science, March 12-15, 2018, San Francisco, CA.
- *Reviewer*, 51th Hawaii International Conference on System Sciences (HICSS-51), January 3-6, 2018, Waikoloa Village, HI.
- *Reviewer*, 21st Multi-conference on Systemics, Cybernetics, and Informatics: WMSCI 2017, July 8 -11, 2017, Orlando, FL.
- *Reviewer*, American Medical Informatics Association Annual Symposium 2017, November 4-8, 2017, Washington DC.
- *Reviewer*, American Medical Informatics Association 2017 Joint Summits on

- Translational Science, March 27-30, 2017, San Francisco, CA.
- *Reviewer*, Society for Design Process Science 2016 Annual Conference, December 4-6, 2016, Orlando, FL.
 - *Reviewer*, Hawaii International Conference on System Sciences (HICSS-50), January 4-7, 2017, Waikoloa Village, HI.
 - *Reviewer*, American Medical Informatics Association Annual Symposium 2016, November 12-16, 2016, Chicago, IL.
 - *Reviewer*, American Medical Informatics Association 2016 Joint Summits on Translational Science, March 21-24, 2016, San Francisco, CA.
 - *Reviewer*, Hawaii International Conference on System Sciences (HICSS 49), January 5-8, 2016, Kauai, HI.
 - *Reviewer*, Society for Design Process Science 2015 Annual Conference, November 1-5, 2015, Dallas, TX.
 - *Reviewer*, American Medical Informatics Association Annual Symposium 2015, November 14-18, 2015, San Francisco, CA.
 - *Reviewer*, American Medical Informatics Association 2015 Joint Summits on Translational Science, March 23-27, 2015, San Francisco, CA.
 - *Reviewer*, American Medical Informatics Association Annual Symposium 2014, November 15-19, 2014, Washington DC.
 - *Reviewer*, Hawaii International Conference on System Sciences, January 7-10, 2013, Manoa, HI.
 - *Member*, Technical Program Committee (Reviewer) for IEEE Southeast Conference 2014, March 13 - 16, 2014, Lexington, KY.
 - *Member*, Technical Program Committee (Reviewer) for IEEE Southeast Conference 2013, April 14 -17, 2013, Jacksonville, FL.
 - *Member*, Technical Program Committee (Reviewer) for IEEE Southeast Conference 2011, March 17-20, 2011, Nashville, TN.
 - *Member*, Technical Program Committee (Reviewer) for IEEE Southeast Conference 2010, March 18-21, 2010, Charlotte, NC.
 - *Member*, Technical Program Committee (Reviewer) for IEEE Southeast Conference 2009, March 5-8, 2009, Atlanta, GA.

Academic Services

- *Chair*, Grade Appeal Committee, College of Community Innovation and Education, University of Central Florida, 2020 – Present.
- *Member*, LNRC- Simulations and Learning Sciences Workgroup, University of Central Florida, 2020 – Present.
- *Faculty mentor*, Andriy V. Koval, Assistant Professor, Department of Health Management and Informatics, College of Community Innovation and Education, University of Central Florida, 2020 - 21.
- *Member*, Research Incentive Award committee, College of Community Innovation and Education, University of Central Florida, 2019 – 20.
- *Member*, Dean’s Advisory Committee, College of Community Innovation and Education, University of Central Florida, 2019 – Present.
- *Member*, Doctoral Program Committee, Department of Health Management and Informatics, University of Central Florida, 2018 - Present.
- *Member*, International Committee, College of Community Innovation and Education, University of Central Florida, 2018.
- *Member*, Search Committee, Vice-Provost for Faculty Excellence, University of Central

- Florida, 2018.
- *Faculty Adviser/Mentor*, HIMSS Student Case Competition 2018.
 - *Member*, Faculty Search Committee, Health Informatics Position #1, 2018, Department of Health Management and Informatics, University of Central Florida, 2018.
 - *Member*, Faculty Search Committee, Health Informatics Position #2, 2018, Department of Health Management and Informatics, University of Central Florida, 2018.
 - *Member*, Research Incentive Award committee, College of Health and Public Affairs, University of Central Florida, 2016 – 17.
 - *Member*, Faculty Search Committee, Health Informatics Position #1, 2017, Department of Health Management and Informatics, University of Central Florida, 2016-2017.
 - *Member*, HIPAA Compliance Task Force, University of Central Florida, 2016 – Present.
 - *Member*, Graduate Council, College of Health and Public Affairs, University of Central Florida, 2015 – 2018.
 - *Member*, PAF-Health track admission committee meeting for the Doctoral Program in Public Affairs, 2016 – 2018.
 - *Member*, Graduate Appeals Committee, University of Central Florida, 2015 – Present.
 - *Member*, HIPAA Compliance Committee, College of Health and Public Affairs, University of Central Florida, 2016 – 2018.
 - *Member*, Faculty Search Committee, Health Informatics Position #1, 2016, Department of Health Management and Informatics, University of Central Florida, 2015-2016.
 - *Member*, Faculty Search Committee, Health Informatics Position #2, 2016, Department of Health Management and Informatics, University of Central Florida, 2015-2016.
 - *Member*, Technology Advisory Committee, College of Health and Public Affairs, University of Central Florida, 2015 – 2016.
 - *Member*, Ontological Semantic Lab, Texas A&M University – Commerce, 2013 – Present.
 - *Member*, Research Council, College of Health and Public Affairs, University of Central Florida, 2014-2016.
 - *Member*, Faculty Search Committee, Health Informatics Position #1, 2015, Department of Health Management and Informatics, University of Central Florida, 2014-2015.
 - *Member*, Faculty Search Committee, Health Informatics Position #2, 2015, Department of Health Management and Informatics, University of Central Florida, 2014-2015.
 - *Member*, Faculty Search Committee, Health Informatics Position #3, 2015, Department of Health Management and Informatics, University of Central Florida, 2014-2015.
 - *Collaborator*, Department of Electrical and Computer Engineering, The University of Alabama at Birmingham, 2014 – Present.
 - *Member*, Dean’s Advisory Council, College of Applied and Natural Sciences, Louisiana Tech University, Ruston, LA, 2013 – 2014.
 - *Chair*, Faculty Search Committee, Department of Computer Science and Information Systems, Texas A&M University-Commerce, 2012.

Professional Services

- *Chair*, IEEE Orlando Section, January 2021 – Present.
- *Technical Program Chair*, IEEE Southeast Conference 2023, December 2020 – Present.
- *Member*, IEEE Florida Council, January 2021 – Present.
- *Panelist*, IEEE Senior Member Selection, Orlando, FL, Feb 15, 2020.
- *Vice Chair*, IEEE Orlando Section, January 2020 – December 2020.
- *Secretary*, IEEE Orlando Section, January 2019 – December 2019.
- *Member*, Conference Committee, IEEE Orlando Section, January 2018 – Present.
- *Chair*, Conference Committee, IEEE Orlando Section, January 2018 – January 2019.

- *Member*, Executive Committee, IEEE Orlando Section, January 2018 – Present.
- *Program Support*, SDPS 2017 Conference, Birmingham, Alabama, November 5-9, 2017.
- *Co-Chair*, Journal of Integrated Design Process Science: Transactions of the SDPS Promotion Committee, 2015 – Present.
- *Member*, AHIMA Standards Task Force, 2017 – 2018.
- *Member*, Work Group, Clinical Decision Support, Health Level 7, 2016 - 2019.
- *Peer Reviewer*, Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).
- *Program Support*, SDPS 2016 Conference, Orlando, Florida, December 4-6, 2016.
- *Member*, American Medical Informatics Association, Academic Forum, 2015 – 2016.
- *Judge*, ACM Mid-Southeast Conference 2013, Gatlinburg, TN, November 14-15, 2013.
- *Session chair*, ACM Mid-Southeast Conference 2013, Gatlinburg, TN, November 14-15, 2013.
- *Chair*, Registration Committee, SDPS 2012 Conference, June 10-14, 2012, Berlin, Germany.
- *Conference Manager*, SDPS 2012 Conference, June 10-14, 2012, Berlin, Germany.
- *Chair*, Registration Committee, SDPS 2011 Conference, June 12-16, 2011, Jeju Island, South Korea.
- *Member*, Program Support Committee, 15th SDPS Conference, June 6-11, 2010, Dallas, TX.
- *Session Chair*, IEEE Southeast Conference 2009, March 5-8, 2009, Atlanta, GA.
- *Session Chair*, Twelfth Conference SDPS Transdisciplinary Conference on Integrated Systems, Design and Process Science, November 1-5, 2009, Montgomery, AL.

OTHER ACTIVITIES

- *Representative*, IEEE Orlando Section at IEEE Southeast Conference 2021, Virtual Conference
- *Representative*, IEEE Orlando Section at IEEE Southeast Conference 2019, Huntsville, AL
- *Participant*, UCF ICORPS Program, October – November, 2018.
- *Participant*, Summer Faculty Development Conference, Faculty Center for Training and Learning, University of Central Florida, May 2017.
- *Participant*, Winter Faculty Development Conference, Faculty Center for Training and Learning, University of Central Florida, December 2016.
- *Workshop Organizer*, SDPS 2016 Conference, December 4-6, 2016, Orlando, FL.
- *Participant*, Summer Faculty Development Conference, Faculty Center for Training and Learning, University of Central Florida, May 2016.
- *Participant*, Winter Faculty Development Conference, Faculty Center for Training and Learning, University of Central Florida, December 2015.
- *Workshop Organizer*, SDPS 2015 Conference, November 1- 5, 2015, Fort Worth, TX.
- *Guest Lecturer*, Course# EE621, Fall 2009, Instructor: Dr. Murat M. Tanik, Department of Electrical and Computer Engineering, University of Alabama at Birmingham
- *Guest Lecturer*, Course# EE601, Spring 2010, Instructor: Dr. Thomas C. Jannett, Department of Electrical and Computer Engineering, University of Alabama at Birmingham
- *Member*, Diversity Committee, College of Health and Public Affairs, University of Central Florida, 2014-2015.
- *Member*, Appeals Committee, Department of Health Management and Informatics, College of Health and Public Affairs, University of Central Florida, 2014-2015.

- *Faculty Adviser*, ACM Students' Chapter, Texas A&M University-Commerce, 2011-2013.
- *Member*, Scholarship Committee, Department of Computer Science and Information Systems, Texas A&M University-Commerce.
- *Member*, Graduate Faculty Committee, Department of Computer Science and Information Systems, Texas A&M University-Commerce.
- *President*, Society for Entrepreneurship in Business and Engineering (Student's Chapter), 2007-2009.
- *Member*, Institute of Electrical and Electronics Engineers (IEEE) national chapter, 2008-present.
- *Member*, Program Support Committee, Society for Design Process Science (SDPS) 2010 conference.
- *Member*, SDPS, 2008-present.
- *Member*, SDPS transition committee, 2008-present.
- Nominated as an executive member of Indian Society for Technical Education (ISTE) Students' Chapter for the year 2000 – 2001.
- *Participant*, Workshop, "How to Achieve Transdisciplinarity in Software Engineering Education," November 3, 2009, AUM, Montgomery, AL.
- *Participant*, Workshop, "Design and Process Methodologies for Complex Social Systems," November 3, 2009, AUM, Montgomery, AL.
- *Participant*, Workshop, "On Integration: Software as a Product of Transdiscipline," November 4, 2009, AUM, Montgomery, AL.
- *Participant*, Workshop, "The Significance of Informatics in the 21st Century," November 4, 2009, AUM, Montgomery, AL.

MEDIA APPEARANCES

- WFTV (ABC News affiliate): Study shows people with dementia twice as likely to contract COVID-19 <https://www.wftv.com/news/local/study-shows-people-with-dementia-twice-likely-contract-covid-19/BZOJOP3Y5FDMDG7GMXEAIIBPKA/>
- Los Angeles: Mangalurean Dr Varadraj Prabhu bags Research Triumph Award in USA: <https://www.daijiworld.com/news/newsDisplay.aspx?newsID=477087>