### CURRICULUM VITAE

Yugyung Lee, Ph.D.

Professor

Department of Computer Science Electrical Engineering

School of Computing and Engineering

University of Missouri - Kansas City

Phone: (816) 235-5932

URL: www.csee.umkc.edu/~leeyu

Email: [leeyu@umkc.edu](mailto:leeyu@umkc.edu)

1. **Education**

* University of Washington, Seattle, Washington, Computer Science, BS. 1990
* New Jersey Institute of Technology, Newark, NJ, Computer and Information Science, Ph.D. 1997

1. **Work Experience**

* June 2018 – Present: Co-Director, NSF IUCRC Center for Big Learning, UMKC.
* January 2017 – Present: PhD CS Discipline Coordinator, Computer Science and Informatics School of Computing and Engineering, University of Missouri - Kansas City, MO.
* August 2016 – Present: Professor, Computer Science and Informatics School of Computing and Engineering, University of Missouri - Kansas City, MO.
* June 2005 – August 2016: Associate Professor, Computer Science and Informatics School of Computing and Engineering, University of Missouri - Kansas City, MO.
* August 2009 – December 2009: Visiting Professor, School of Electrical Engineering, Seoul National University, Seoul, Korea.
* September 1999 – May 2005: Assistant Professor, Computer Science and Informatics, School of Computing and Engineering, University of Missouri - Kansas City, MO.
* November 1996 - August 1999: Research Staff, Intuitive Interface to Information Systems (I3S) Microelectronics and Computer Technology Corporation (MCC), Austin, TX.
* September 1991 - September 1996: Teaching/Research Assistant, New Jersey Institute of Technology, Newark, NJ.

**III. Honors**

1. Meriwether Lewis Fellow, Community of Learners: Transformation in Higher Education Conference, University of Missouri-Kansas City.
2. Faculty Teaching Scholar, University of Missouri-Kansas City.
3. Mentor Appreciation Day Award, University of Missouri-Kansas City.
4. Distinguished Paper Award, American Medical Informatics Association Annual

Symposium (AMIA)

1. Nomination for Distinguished Paper Award, American Medical Informatics

Association Annual Symposium (AMIA)

1. [IBM Smarter Planet Faculty Innovation Award](http://info.umkc.edu/scenews/2012/01/30/professors-chen-lee-awarded-2012-ibm-smarter-planet-faculty-innovation-award/)
2. Toyota Award for Smart Energy Automation and Education
3. KCP&L Award for MySmartSolar.Edu
4. Google CS4HS Faculty Award
5. N.T. Veatch Award for Distinguished Research and Creative Activity

2019 STEMMY Award (WiSTEMM Educator) of Central Exchange

1. **Research Interests**

My research interests include 1) Real-time and big data analytics (Deep Learning) for pervasive and distributed systems; 2) Semantic techniques for mobile and cloud-based systems and applications (Biomedical applications, Web, Mobile computing, and Social networking); 3) Multiple agent systems for dynamic service discovery and composition for service oriented systems; 4) Cognitive robotics with IoT Analytics; and 5) virtual reality and augmented reality for immersive intelligence.

1. **Research Grants**

**Pending Grants**

1. Looking through HerLens: Championing Creativity, Technology, and Women Leadership in STEM via Interdisciplinary Project-based Team Learning, National Science Foundation (NSF), $300,000, 8/30/2021 – 7/30/2023. Role: PI

**Currently Grants**

1. CUE Ethics: Collaborative Research: Open Collaborative Experiential Learning (OCEL.AI): Bridging Digital Divides in Undergraduate Education of Data Science, Role: PI. (NSF IUSE #1935076, $350,000, 1/1/2020 - 6/30/2021). The goals of OCEL.AI include (1) To foster interest in skills and careers of computer science. (2) To train data science, ethics, and storytelling components to existing CS and X courses. (3) To make data science more relevant to minority students and advance our knowledge of the role of critical thinking in improving the relevance of data science to learners. With OCEL.AI, we can leap over the digital divide and close the gaps between minorities and the majority before it creates irreversible social inequalities in this data, knowledge, and tech-driven economy.
2. NSF SCC-PG Early Community Intervention for Neighborhood Revitalization Using Artificial Intelligence and Emerging Technologies (NSF #1951971, $150,000, 10/1/20–9/30/21). Specific objectives of this project consist of (1) enhancing scientific knowledge of house abandonment by applying deep learning technology and statistical modeling, (2) fostering a multidisciplinary and diverse research community to develop tools for measuring, predicting, and preventing the spread of house abandonment, and (3) integrating KCMO’s community stakeholders into a series of community projects for optimal self-control to reduce of abandoned housing and resolve residual problems. The proposed research will ultimately improve urban health and public safety of residents. This project will enable us to provide guidance to local governments toward making effective data collection strategies, analysis, and policy. We will establish strong community partnerships and deliver a high-quality education to our next generation of leaders, innovators, and engineers.
3. *IUCRC Center for Big Learning*, (NSF CNS #1747751, $749,980, 2/6/2018- 2/7/2023) Role: co-PI. The mission of the CBL is to pioneer in this emerging trend through united and coordinated efforts and deep integration and fusion of broad expertise. Making significant contributions and impacts to the deep learning community on pioneering research and applications to address a broad spectrum of real-world challenges; promoting products and services of the industry in general and our members in particular; the urgently needed education of our next-generation talents with real-world settings and world-class mentors from academia and industry. Our meetings, forums, conferences, planned training, faculty development sessions, and a large number of multidisciplinary DL courses will significantly promote and broaden the research, education, and materialization of DL.

**Selected Completed Projects**

1. *UMKC Inclusive Excellence grants, 9/01/2019-8/31/2020, Big Imaging and Smart-City Technologies*, UMKC Strategic Fund, 9/01/16 – 12/31/19. Role: Co-PI

1. *Recruiting High-Quality Domestic Ph.D. Students to Advance Big Data,* UMKC Strategic Fund, 9/01/16 – 12/31/19. Role: Co-PI
2. *IUCRC Planning Grant Center for Big Learning*, 1/01/17 – 2/28/18, National Science Foundation (NSF). CNS #1650549, $15,000*,* Role: Co-PI

The mission of the CBL is to pioneer in this emerging trend through united and coordinated efforts and deep integration and fusion of broad expertise from our large number of faculty members, students, and industry partners. CBL possesses the pioneering intellectual merit in the following key research themes. (1) Novel DL algorithms and models. (2) Novel DL systems and intelligent platforms. (3) Novel DL applications in business, health, smart things, next-gen media compression and communication, security and surveillance. Broader Impacts: CBL is a unique and timely initiative as our society moves towards the intelligence-enabled world of opportunities. (1) Making significant contributions and impacts to the deep learning community on pioneering research and applications to address a broad spectrum of real-world challenges. (2) Making significant contributions and impacts on promoting products and services of the industry in general and our members in particular. (3) Making significant contributions and impacts to the urgently needed education of our next-generation talents with real-world settings and world-class mentors from both academia and industry. (4) Our meetings, forums, conferences, planned faculty development sessions, and a large number of multidisciplinary courses will significantly promote and broaden the research, education, and materialization of DL.

1. **Software for Developing Consumer Driven Healthcare Solutions**

Funding Agency: National Science Foundation (NSF)

Date: January 2015 – June 2015

Role: (UMKC Subawardee) PI

Amount: $45,000

This proposed project addresses an emerging healthcare problem, how to improve financial results while improving the patient experience. Hospitals today rely on generic surveys mandated by the federal government to monitor patient satisfaction. Few providers have access to feedback that allows them to identify and fix problems that matter to their patients. This project solves the problem by developing software that is able to quickly and efficiently analyze patient stories about recent hospital experiences. This tool not only identifies problems that need fixing from the patient’s perspective, it also highlights opportunities, e.g. how to streamline hospital discharges. This research will develop a dictionary of words and phrases that patients commonly use when describing their hospital experiences. It will evaluate alternative methods for extracting insight from patient stories to determine which approach delivers the most accurate results.

1. **Active Mobile Interfaces for Promoting Active Lifestyle**

Role: PI

Date: January 2013 – June 2015

Funding Source: University of Missouri Research Board

Amount: $33,693

The overall goal of the Active Mobile Interfaces for Promoting Active Lifestyles (AMIPAL) project is to develop middleware to enable the creation of active games on mobile devices for kids. Ideally, the games should be engaging, exertional, educational and age appropriate. Any additional hardware should be minimal and inexpensive. The goals of this UMRB proposal are: 1) To develop an active interface that is an alternative to the traditional touchscreen interface for mobile computing devices, 2) To illustrate the use of the active interface by sample games, and 3) To carry out a pilot study for preliminary evaluation.

1. **An Intelligent Online System for Enhanced Recruitment of Patients for Clinical Research**

Role: PI (Multiple PIs)

Date: September 2009 – July 2012

Funding Source: National Institute of Health (NIH)

Amount: $535,000

Recruitment and retention of subjects for clinical research is currently an inefficient and time-consuming process in the new drug development industry. This is especially true for the vulnerable populations of individuals with psychiatric disorders. This project aims to develop a prototype for recruitment enhancement with a novel Internet-based system which will proactively engage patients and their caregivers who desire to be informed about clinical trials which might be relevant for their specific diagnoses, disease states and various other characteristics which might determine their likelihood of meeting inclusion/exclusion criteria for specific studies.

Development will maintain focus on features which will be marketable pharmaceutical firms, contract research organizations and clinical trial sites. Such features will speed the recruitment process, enhance retention and also aid in protocol development.

1. **Smart Energy for Smart Life in Green Zones**

Role: co-PI

Date: January 2012 – June 2014

Funding Source: Toyota Co.

Amount: $151,300

There are increasing demands to realize socially-aware energy saving and pricing. However, to date, technological gaps exist that prevent achieving such a grand vision, especially in underserved communities and public-domain facilities. The goal of this project is to develop smart energy solutions for smart life particularly targeted for under*-*represented communities that can realize i) non-intrusive monitoring of energy consumption and behavior at multiple scales, ii) autonomous energy saving mechanisms that are transparent to general users, iii) intelligent prediction of energy costs and expenditures, iv) evaluation of personalized experiences for smart grid-enabled life at both residence and community levels, and v) discovering cost saving opportunities for community facilities.

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1. **Advanced Cardiovascular Stent incorporated with Nanotechnology**

Role: co-PI (PI – Chi Lee, School of Pharmacy)

Date: February 2009 – December 2012

Funding Source: Missouri Life Sciences Research Board grant

Amount: $540,000

Cardiovascular stent has been exclusively used for the treatment of coronary heart diseases by maintaining steady blood flow, but restenosis is the major adverse symptoms which occurred in clinical application. This research focuses on development of innovative smart cardiovascular stent which can serve as a theranostic device against in-stent restenosis. The smart cardiovascular stent will be equipped with highly sensitive and reliable non-invasive sensors and nitric oxide-eluting carriers. The envisioned wireless blood pressure monitoring system consists of an external portable reader and an implantable device containing a miniature pressure sensor and a telemetry unit.

1. **ARTISAN: Art Inspired Service Oriented Architecture Design**

Role: PI

Date: 9/15/07 – 2/28/10

Funding Source: National Science Foundation (NSF) IIS#0742666

Amount: $200,000

The primary focus was to develop a creative design paradigm for Service Oriented Architecture (SOA), inspired by ideas from art and film. The project tool and results have a direct impact on software/knowledge engineering communities as guidelines and publications on context-aware service composition for SOA.

1. **OntoDiagram: Ontology Based Automatic Diagram Generation**

Role: PI

Date: 9/01/03 – 8/31/05

Funding Source: Children’s Mercy Hospital and The Heartlab Co.

Amount: $146,468

This main objective of this project is to perform statistical analysis and discover trends and significant patterns in data from heterogeneous sources such as Hospital Information Management, Health line 7 (HL7), imaging (DICOM), diseases (CPT) databases.

1. **Semantic Web Search based on Peer to Peer Ontologies**

Role: PI

Date: 1/01/05 – 12/31/05

Funding Source: University of Missouri Research Board (UMRB)

Amount: $ 26,800

This main objective of this project is to develop an ontology-enabled browser that will help its user to acquire new concepts from the Web. The underlying ontological model will be achieved through the ‘peer-group learning’ process. The P2P ontologies infrastructure will be built for collaborative biomedical research.

1. **Medical Information System (EQUIS)**

Role: PI

Date: 5/01/01 – 4/31/03

Funding Source: Mid America Heart Institute

Amount: $155,753

The project developed several medical information systems including a metadata management system to semantically integrate concepts retrieved from heterogeneous sources into the MAHI data repository using Unified Medical Language System (UMLS), rule-based data cleaning system, HL7 message listening system to support communication between hospital systems.

1. **Data Mining in Medical Domain**

Role: PI

Date: 1/01/01 -12/31/02

Funding Source: University of Missouri Research Board (UMRB)

Amount: $ 21,350

This project focused on developing intelligent data mining models/system to analyze and formulate more precise diagnostic factors for establishing an appropriate relationship between medication and any possible complications.

1. **Education Grants**
2. **Google CS4HS: “Tell the Story, the Program Will Follow”**

Role: PI

Date: January 2013 – December 2013

Funding Source: Google Corporation

Amount: $10,000

“Tell the Story, the Program Will Follow” capitalizes on human beings’ common fascination with stories – being involved in them and creating them – to inspire urban high school students in Kansas City, Missouri and Kansas City, Kansas to engage in 21st century computing. The goal of Tell the Story is to help teachers and high school students learn more about computer science and realize that they too can roll up their sleeves and get involved with computing. This approach to computing engages and inspires students, even those that are not as technically inclined, because they see computing as contributing to solving problems, and addressing needs that they face.

1. ***MySmartSolar.Edu***

Role: co-PI (25%)

Date: January 2013 – December 2013

Funding Source: Kansas City Power and Light (KCP&L)

Amount: $42,000

The objective of this project is to give the opportunity to explore energy and the potential capabilities that alternative sources of energy have to offer for local high school students through the coordination between the University of Missouri – Kansas City, Kansas City Power and Light, and the Paseo Academy of Fine and Performing Arts. The primary focus of the University of Missouri – Kansas City’s E-Save through Automation and Education is to pro-mote energy efficiency, particularly solar energy. Students were given the opportunity to take researched information and relate what they discovered into potential application.

1. **Smart Sensing and Computing for Smarter Energy**

Role: PI

Date: January 2012 – December 2012

Funding Source: [2012 IBM Smarter Planet Faculty Innovation Award](http://info.umkc.edu/scenews/2012/01/30/professors-chen-lee-awarded-2012-ibm-smarter-planet-faculty-innovation-award/)

Amount: $10,000

The goal of this project is to develop an innovative curriculum at UMKC, titled *Smart Sensing and Computing for Smarter Energy*. This course is designed for students with a CSEE or CME major at the advanced level of study (senior or graduate level). In this course, interdisciplinary teams and projects will be developed to devise and implement novel concepts and solutions that attempt to mitigate the above technological gaps. Ultimately, we envision that the students from this class will be instrumental towards realizing smart grid-enabled smarter buildings, communities, and cities.

1. **Introducing Embedded Curriculum at UMKC**

Role: co-PI (PI – Deep Medhi)

Date: August 2011 – May 2012

Funding Source: Intel Co.

Amount: $30,000 & Equipment

This interdisciplinary course is designed for students with a CSEE (Computer Science & Electrical Engineering) or CME (Civil and Mechanical Engineering) major at the advanced level of study (senior or graduate level). In this course, interdisciplinary teams and projects will be developed to devise and implement novel concepts and solutions that attempt to mitigate the above technological gaps. Ultimately, we envision that the students from this class will be instrumental towards realizing smart grid-enabled smarter buildings, communities, and cities. With the help of the available industry funds, this project aims to strive to implement the smart sensing and computing solutions incubated in the proposed curriculum to benefit our underserved populations in the Green Impact Zone.

1. **Synergizing Elements of Education with Stimulating Award Winning Science (SEESAWS)**

Role: co-PI (PI: Deendayal Dinakarpandian)

Date: November 2009 – December 2010

Funding Source: Prep-KC

Amount: $25,000

The proposed project “Synergizing Elements of Education with Stimulating Award Winning Science (SEESAWS)” seeks to use immersive didactic experiences based on the lives and contributions of scientists who won awards like the Nobel Prize or the ACM Turing award. The model used will involve the active participation of college faculty, school teachers, and students. The expected deliverables of the project are 1) a series of learning modules and 2) an accompanying dynamic website to enhance learning based on social networking principles.

1. **Amazon Cloud Computing for Software Engineering Education**

Role: PI

Date: 1/01/10 – 1/31/11

Funding Source: Amazon

Amount: $3,000 (Credit for Amazon Cloud Service)

1. **US - Morocco Workshop: Language Technology Research and Education Program**:

Project Startup and Team-Building, March 2006, Rabat, Morocco

Role: co-PI

Date: 10/01/05 – 8/31/06

Funding Source: National Science Foundation (NSF) OIS#0538906

Amount: $ 38,520

This project aims to exchange the research activities and outcomes from international community including USA and Morocco. The grants used for the organization of the workshop and presentation and workshop publication.

1. **Collaborative Research Experiences for (undergraduate) Women**

Role: PI

Date: 2001/6-2002/5

Funding Source: Computing Research Association-Committee on the Status of Women in Computing Research (CRA-W)/NSF

Amount: $3000

This project aims for provide undergraduate female students with collaborative research opportunities through a learning environment research program. Motivated undergraduate computing and engineering students were participated in a software project and produced research outcomes and presented in SEARCH. Students were granted the chance to present research results while meeting with other female scientists in the computing field.

1. **Selected Publications**

Note that in this section a superscript **ST**indicates a student or former student of the UMKC SCE.

Google scholar indexed publications:

<https://scholar.google.com/citations?user=BwE_CWcAAAAJ&hl=en>

1. **Peer-reviewed Journal (Full paper)**
   * + 1. Goudarzvand, S. ST, Sauver, J. S., Mielke, M. M., Takahashi, P. Y., **Lee, Y.**, & Sohn, S. (2019). Early temporal characteristics of elderly patient cognitive impairment in electronic health records. BMC medical informatics and decision making, 19(4), 149. (**Impact Factor: 2.674)**
       2. **Lee, Y.**, Veerubhotla, K., Jeong, M. H., & Lee, C. H. (2019). Deep Learning in Personalization of Cardiovascular Stents. Journal of cardiovascular pharmacology and therapeutics, 1074248419878405. (**Impact Factor: 2.094**)
       3. Yeruva, V. K. ST, Junaid, S. ST, & Lee, Y. (2019). Contextual Word Embeddings and Topic Modeling in Healthy Dieting and Obesity. Journal of Healthcare Informatics Research, 1-25.
       4. R AyoubjST, **Y Lee**, (2019). RUPEE: A fast and accurate purely geometric protein structure search, PloS One 14 (3), e0213712 (**Impact Factor: 2.776)**
       5. Shen, F. ST, & **Lee, Y.** (2018). BioBroker: Knowledge Discovery Framework for Heterogeneous Biomedical Ontologies and Data. Journal of Intelligent Learning Systems and Applications, 10(01), 1. (**Impact Factor: 2.14)**
       6. Lee, Y, and C. H. Lee. "Augmented reality for personalized nanomedicines." Biotechnology advances (2017) (**Impact Factor: 10.597**)
       7. Oh, Byeongtaek, **Yugyung Lee**, Mingui Fu, and Chi H. Lee. "Computational Analysis on Down-Regulated Images of Macrophage Scavenger Receptor." Pharmaceutical research 34, no. 10 (2017): 2066-2074 (**Impact Factor: 3.002).**
       8. Shen, F. ST, **Lee, Y**., (2016) Knowledge Discovery from Biomedical Ontologies in Cross Domains, *PLoS One*. Aug 22;11(8):e0160005. (**Impact Factor: 3.730**)
       9. F Shen ST, H Liu, S Sohn, DW Larson, **Y Lee,** "Predicate Oriented Pattern Analysis for Biomedical Knowledge Discovery." *Intelligent Information Management* 8.03 (2016): 66.
       10. **Lee, Y**., Khemka A., Acharya G., Giri N., and Lee C., A Cascade Computer Model for Mocrobicide Diffusivity from Mucoadhesive*BMC bioinformatics 16.1 (2015): 263. (****Impact Factor: 2.448****)*
       11. W Wang, **Y Lee**, C. H. Lee: Review: Effects of NO on Stem Cell Therapy, Biotechnology Advances.  [33(8](http://www.sciencedirect.com/science/journal/07349750/33/8)): 1685–1696 (2015) (**Impact factor 10.5**)
       12. Dasgupta, S.ST, Aroor A., Shen F.ST,  **Lee, Y**., 2014, “SMARTSPACE: Multiagent Based Distributed Platform for Semantic Service Discovery", *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 44(7): 805- 821 (2014)  (**Impact Factor: 2.183**) (**Corresponding Author**)
       13. Chen, Z., Chen, JST., Shen, FST., & **Lee, Y**. 2014. Collaborative Mobile-Cloud Computing for Civil Infrastructure Condition Inspection. Journal of Computing in Civil Engineering, 10.1061 (ASCE) CP.1943-5487.0000377, 04014066.
       14. **Lee, Y**., Jana S.ST, Acharya G., and Lee C. 2013, Computational Analysis and Predictive Modeling of Polymorph Descriptors, Chemistry Central Journal, 7(1):1-14 (**Corresponding Author**)
       15. **Lee, Y**., Krishnamoorthy S.ST, Dinakarpandian, D., 2013, A Semantic Framework for Intelligent Match-making for Clinical Trial Eligibility Criteria, ACM Transaction on Intelligent Systems and Technology, 2013, Vol. 4, No. 4 (**Corresponding Author**)
       16. Beard, C., Chen, Z., Kumar, V., **Lee, Y**., Leon-Salas, WD., Rao, P., 2013. SAVEUS: SAving Victims in Earthquakes through Unified Systems. *International Journal of Communication Networks and Distributed Systems*. 10(4): 402-420
       17. Acharya, G., Lee, C.H., **Lee, Y**., 2012. Optimization of Cardiovascular Stent against Restenosis: Factorial Design-Based Statistical Analysis of Polymer Coating Conditions. PLoS ONE 7(8): e43100. doi:10.1371/journal.pone.0043100 (**Impact Factor: 3.730**) (**Corresponding Author**)
       18. Wang, W., **Lee, Y**., Lee, C., 2012. Review: The physiological and computational approaches for atherosclerosis treatment, International Journal of Cardiology (**Impact Factor: 4.125**)
       19. Lee, C., Moturi V., and **Lee, Y**., 2009, Thixotropic property in pharmaceutical formulations,  Journal of Controlled Release, Elsevier B.V., Volume 136, Issue 2, 5 June 2009, Pages 88-98 (**Impact Factor: 5.690**)
       20. **Lee, Y**., Khemka, A. Yoo, J.W., and Lee, C.H., 2008. Assessment of Diffusion Coefficient from Mucoadhesive Barrier Devices using Artificial Neural Networks, *International Journal of Pharmaceutics* 351, pp. 119–126 (**Impact Factor: 3.4**)
       21. Dinakarpandian, D., **Lee, Y**., Dinakar, C. 2007. Applications of Medical Informatics in Allergy/Immunology. *Annals of Allergy, Asthma & Immunology*, 99(1): 2-9. (**Impact factor: 2.776**)
       22. Dinakarpandian, D., Tong TST, **Lee, Y**., 2007. A Pragmatic Approach to Mapping Open Biomedical Ontologies, International *Journal of Bioinformatics Research and Applications*  (IJBRA), Special Issue on "Ontologies for Bioinformatics" 3(3):341- 365 (**Corresponding Author**)
       23. **Lee, Y**., Dharmala, K., Lee, C.H., 2007. An Intelligent Data Mining Model Approach for Adverse Effects of Hormone Replacement Therapy, *Methods of Information in Medicine*, 46(1):5-18 (**Impact Factor: 1.472**)
       24. Dinakarpandian, D., **Lee Y**., Vishwanath KST, Lingambhotla, R., 2006. MachineProse: An Ontological Framework for Scientific Assertions, *Journal of American Medical Informatics Association* (JAMIA) 13(2):220-232 **(Impact Factor: 3.974**)
       25. **Lee, Y**., Geller, J., 2006. Semantic Enrichment for Medical Ontologies, *Journal of Biomedical Informatics*, 39(2):209-226 (**Impact Factor: 2.38**) (**Corresponding Author**)
       26. **Lee, Y**., Supekar, KST, Geller, J., 2006. Ontology Integration: Experience with Medical Terminologies, Computers in Biology & Medicine - Special Issue on: Medical Ontologies. Guest Editors: Francesco Pinciroli, Domenico M. Pisanelli, 36(7-8):893-919 (**Impact Factor: 1.485**) (**Corresponding Author**)
       27. Singh, SST, Puradkar AST, **Lee, Y**., 2006. Ubiquitous computing: connecting pervasive computing through Semantic Web, *Information Systems and E-Business Management*, Springer-Verlag 4(4): 421-439 (**Impact Factor: 0.605**) (**Corresponding Author**)
       28. **Lee*,* Y***.,* Chun, S.A., Geller, J., 2004. Web-Based Semantic Pervasive Computing Services, IEEE Computational Intelligence Bulletin, Vol.4 No.2, pp. 4 - 15. (**Corresponding Author**)
       29. Junginger MST and **Lee, Y**., 2004. A Self-Organizing Publish/Subscribe Middleware for Dynamic Peer-to-Peer Networks, special issue of *IEEE Network* on Middleware, 18(1), pp. 38 – 43 (Impact Factor: 2.853) (**Corresponding Author**)
       30. Supekar KST, Patel CST, **Lee, Y**., 2004. Web Service-based Workflows for Distributed Health Care Enterprises, Informatica - An International Journal of Computing and Informatics, ISSN No.:1540-4471 (**Corresponding Author**)
       31. **Lee, Y**. and Geller, J., 2003. A Collaborative and Sharable Web-based Learning System, *Association for the Advancement of Computing in Education* (AACE), 2(2), pp 35 – 45. (**Corresponding Author**)
       32. Tak SST, **Lee, Y**., Park, E.K., 2003. A Software Framework for Non-repudiation Service in Electronic Commerce based on the Internet, *Microprocessor and Microsystems Journal*, Elsevier, 27, pp. 265- 276. (**Impact Factor: 0.549**)
       33. **Lee, Y**., Junginger, MST, Geller, J., 2003. A High Performance Publisher/Subscriber Communication Protocol for Adaptive Learning, *Journal of Distributed Education Technology*, 1(3), pp. 14-27. (**Corresponding Author**)
       34. Chong, QST, Marwadi, AST, Supekar, KST, **Lee, Y**., 2003. Ontology Based Metadata Management in Medical Domains, *Journal of Research and Practice in Information Technology* (JRPIT), 35(2), pp. 139 - 154. (**Corresponding Author**)
       35. **Lee, Y**., and Geller, J., 2002. Efficient Transitive Closure Reasoning in a Combined Class/Part/Containment Hierarchy, *Journal of Knowledge and Information System*, 4(3), pp 305-328. (**Impact Factor: 2.225**) (**Corresponding Author**)
       36. **Lee, Y**. and Chong, QST, 2002. Collaborative and Sharable Learning in Multi-agent Systems, *Journal of Interacting with Computers,* 5(1), pp. 33- 55. (**Impact Factor: 1.493**) (**Corresponding Author**)
       37. Lee, C., Singla, A., **Lee, Y**., 2001. Biomedical application of Collagen, *International Journal of Pharmaceutics*, 221(1-2), pp. 1-22. (**Impact Factor: 3.458**) (**Cited by 1685 as of August 22, 2018**)
2. **Preprint Journals & Book Chapters**
   * + 1. Albishri, A. A. ST, Shah, S. J. H. ST, Schmiedler, A., Kang, S. S., & **Lee, Y.** (2019). Automated Human Claustrum Segmentation using Deep Learning Technologies. *arXiv preprint arXiv:1911.07515*.
       2. Shen, F., ST & **Lee, Y.** (2018). MedTQ: Dynamic Topic Discovery and Query Generation for Medical Ontologies. *arXiv preprint arXiv:1802.03855*.
       3. C.H. Lee and **Yugyung Lee**. Chapter 8: Collagen based formulations for wound healing applications. In ‘Wound healing biomaterials Vol 2: functional biomaterials’. Elsevier 2015. ISBN-13: 978-1782424567
       4. Niko, D., Hwang, H., **Lee, Y**., Kim, C., 2011. “Integrating User-generated Content and Spatial Data into Web GIS for Disaster History”.   *Studies in Computational Intelligence*. Springer, 2011.
       5. Mehta, MST., Singh, SST and **Lee, Y**., 2007. *Security in E-services and Applications*, Network Security: Current Status and Future Directions, IEEE press, (eds.) C. Douligeris and D. Serpanos. Chapter 10. (**Corresponding Author**)
       6. Junginger, MST and Lee, Y., 2004, Middleware for Peer-to-Peer Networks, *Middleware for Communications*, John Wiley & Sons, (eds.) Qusay H. Mahmoud, Chapter 4. (**Corresponding Author**)
       7. Kim, J., Kim, C., Gautam, AST, **Lee, Y**., 2004, Location-based Tour Guide System using Mobile GIS and Web Crawling, 4th International Workshop on Web and Wireless Geographical Information System (W2GIS), *Lecture Notes in Computer Science*, Springer 2004.
       8. Chun, S. A., **Lee, Y**., Geller, J. 2004. Ontological and Pragmatic Knowledge Management for Web service Composition, 9th International Conference on Database Systems for Advanced Applications (DASFAA 2004) *Lecture Notes in Computer Science* 2973 Springer 2004, ISBN 3-540-21047-4 pp. 365-373.
       9. Kim, J., Park, S., Kim, C., **Lee, Y**., 2004. The Efficient Web-based Mobile GIS Service System through Reduction of Digital Map, ICCSA 2004, *Lecture Notes in Computer Science* (LNCS) 3043 ISBN 3-540-22054-2, pp. 410 – 417.
       10. Patel, CST, Supekar, KST, **Lee, Y**., 2003. A QoS Oriented Framework for Adaptive Management of Web Service based Workflows, *Lecture Notes in Computer Science* (LNCS), Volume 2736, Springer-Verlag, ISBN 3-540-40806-1, pp. 826 – 835. (**Corresponding Author**)
       11. Vajirkar, PST, Singh, SST, **Lee, Y**., 2003. Context-Aware Data Mining Framework for Wireless Medical Application, *Lecture Notes in Computer Science* (LNCS), Volume 2736, Springer-Verlag. ISBN 3-540-40806-1, pp. 381 – 391. (**Corresponding Author**)
       12. Singh, SST, Vajirkar, PST, **Lee, Y**., 2003. Context-Aware Data Mining using Ontology, *Lecture Notes in Computer Science* (LNCS), Volume 2813, pp. 405-418. (**Corresponding Author**)
       13. Supekar, KST, Patel, CST, Singh, SST, and **Lee, Y**., 2003. BEE-SMART: Natural Language based system interfacing Semantic Web and Web services, *Lecture Notes in Informatics* (LNI) (**Corresponding Author**)
       14. **Lee, Y**., Prabhu, NST, Park, E.K., 2002. Middleware for Location Content Services in Mobile Environment, NSF Workshop on an Infrastructure for Mobile and Wireless Systems, *Lecture Notes in Computer Science* (LNCS), B Konig-Ries et at. (Eds.), Springer-Verlag, pp. 173 – 182.  (**Corresponding Author**)
       15. **Lee, Y**. and Geller, J., 2002. Component-based System for Building Collaborative and Sharable Learning Environment, VLDB Web-based Learning workshop, *Lecture Notes in Computer Science* (LNCS) Volume 2436, Springer-Verlag, pp 203-215 (**Corresponding Author**)
       16. Supekar, KST, Marwadi, AST, **Lee, Y**., and Medhi, D., 2002. Fuzzy Rule-based Framework for Medical Record Validation, IEEE IDEAL-2002, *Lecture Notes in Computer Science*  (LNCS) Volume 2412, Springer-Verlag, pp. 447- 453. (**Corresponding Author**)
3. **Peer-reviewed Conference Paper (Full Paper)**
4. G GharibiST, V WalunjST, R AlanaziST, S RellaST, **Y Lee**, (2019, June). Automated Management of Deep Learning Experiments. In Proceedings of the 3rd International Workshop on Data Management for End-to-End Machine Learning (p. 8). ACM.
5. Zeenat TariqST, Sayed Khushal ShahST, and **Yugyung Lee**, Lung Disease Classification using Deep Convolutional Neural Network, Proceedings of 2019 IEEE International Conference on Bioinformatics and Biomedicine (IEEE BIBM 2019) *November 18-21, 2019, San Diego, CA, USA*
6. Matthew VelazquezST, Rajaram AnantharamanST, Salma Velazquez, and **Yugyung Lee**, RNN-Based Alzheimer’s Disease Prediction from Prodromal Stage using Diffusion Tensor Imaging, Proceedings of 2019 IEEE International Conference on Bioinformatics and Biomedicine (IEEE BIBM 2019) *November 18-21, 2019, San Diego, CA, USA*
7. Ahmed AlbishriST, Syed Jawad ShahST, and **Yugyung Lee**, CU-Net: Cascaded U-Net Model for Automated Liver and Lesion Segmentation and Summarization, Proceedings of 2019 IEEE International Conference on Bioinformatics and Biomedicine (IEEE BIBM 2019) *November 18-21, 2019, San Diego, CA, USA*
8. Vijay WalunjST, Gharib GharibiST, Duy HoST, and **Yugyung Lee**, GraphEvo: Characterizing and Understanding Software Evolution using Call Graphs*,* Proceedings of 2019 IEEE International Conference on Big Data (IEEE Big Data 2019) *December 9-12, 2019, Los Angeles, CA, USA*
9. Zeenat TariqST, Sayed Khushal ShahST, and **Yugyung Lee**, Speech Emotion Detection using IoT based Deep Learning for Health Care, Proceedings of 2019 IEEE International Conference on Big Data (IEEE Big Data 2019) *December 9-12, 2019, Los Angeles, CA, USA*
10. Duy HoST, Raj MarriST, Sirisha RellaST, **Yugyung Lee**, DeepLite: Real-Time Deep Learning Framework for Neighborhood Analysis, Proceedings of 2019 IEEE International Conference on Big Data (IEEE Big Data 2019) *December 9-12, 2019, Los Angeles, CA, USA*
11. Sayed Khushal ShahST, Zeenat TariqST, and **Yugyung Lee**, IoT based Urban Noise Monitoring in Deep Learning using Historical Reports, Proceedings of 2019 IEEE International Conference on Big Data (IEEE Big Data 2019) *December 9-12, 2019, Los Angeles, CA, USA*
12. Gharibi, G. ST, Walunj, V. ST, Rella, S. ST, & **Lee, Y.** (2019, May). ModelKB: towards automated management of the modeling lifecycle in deep learning. In Proceedings of the 7th International Workshop on Realizing Artificial Intelligence Synergies in Software Engineering (pp. 28-34). IEEE Press.
13. Gharibi, G. ST, Alanazi, R. ST, & **Lee, Y**. (2018, December). Automatic Hierarchical Clustering of Static Call Graphs for Program Comprehension. In 2018 IEEE International Conference on Big Data (Big Data) (pp. 4016-4025). IEEE.
14. Chandrashekar, M. ST, & **Lee, Y**. (2018, December). MCDD: Multi-class Distribution Model for Large Scale Classification. In 2018 IEEE International Conference on Big Data (Big Data) (pp. 4906-4914). IEEE.
15. Shah, S. K. ST, Tariq, Z. ST, & **Lee, Y.** (2018, December). Audio IoT Analytics for Home Automation Safety. In *2018 IEEE International Conference on Big Data (Big Data)* (pp. 5181-5186). IEEE.
16. Anantharaman, R. ST, Velazquez, M. ST, & **Lee, Y.** (2018, December). Utilizing Mask R-CNN for Detection and Segmentation of Oral Diseases. In 2018 IEEE International Conference on Bioinformatics and Biomedicine (BIBM) (pp. 2197-2204). IEEE.
17. Tariq, Z. ST, Shah, S. K. ST, & **Lee, Y.** (2018, September). Smart 311 Request System with Automatic Noise Detection for Safe Neighborhood. In 2018 IEEE International Smart Cities Conference (ISC2) (pp. 1-8). IEEE.
18. Gharibi, G. ST, Tripathi, R. ST, & **Lee, Y.** (2018, September). Code2graph: automatic generation of static call graphs for Python source code. In *Proceedings of the 33rd ACM/IEEE International Conference on Automated Software Engineering*(pp. 880-883). ACM. (**Corresponding Author**)
19. Rohithkumar NagulapatiST, Mayanka ChandrashekarST, and **Yugyung Lee**. Transformation from Publications to Diabetes Ontology using Topic-based Assertion Discovery, International Workshop on Healthcare Knowledge Discovery and Management (IHKDM), New York City, NY, USA June 4-7, 2018. (**Corresponding Author**)
20. Mayanka ChandrashekarST, Rohithkumar NagulapatiST, and **Yugyung Lee**. Ontology Mapping Framework with Feature Extraction and Semantic Embedding, International Workshop on Healthcare Knowledge Discovery and Management (IHKDM), New York City, NY, USA June 4-7, 2018. (**Corresponding Author**)
21. Mohamoud AliST, **Yugyung Lee**, CRM Sales Prediction Using Continuous Time-Evolving Classification" Innovative Applications of Artificial Intelligence in the Thirty-Second AAAI Conference on Artificial Intelligence, February 2-7, 2018, New Orleans, Louisiana USA
22. Ayoub, RonST, and **Yugyung Lee**. "RUPEE: Scalable protein structure search using run position encoded residue descriptors." Bioinformatics and Biomedicine (BIBM), 2017 IEEE International Conference on. IEEE, 2017.
23. Yeruva, Vijaya KumariST, Sidrah JunaidST, and **Yugyung Lee**. "Exploring social contextual influences on healthy eating using big data analytics." 2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM). 2017. (**Corresponding Author**)
24. Nagabhushan, MeghaST, Rohithkumar NagulapatiST, Mayanka ChandrashekarST, and **Yugyung Lee**. "Constructing dynamic ontologies from biomedical publications." In 2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pp. 581-584. IEEE, 2017. (**Corresponding Author**)
25. Velazquez, MatthewST, and **Yugyung Lee**. "QA diagnostics with visual recognition tracking for accurate trending of Alzheimer." In 2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pp. 622-625. IEEE, 2017. (**Corresponding Author**)
26. Velazquez, MatthewST, and **Yugyung Lee**. "CVRT: Cognitive Visual Recognition Tracker." Healthcare Informatics (ICHI), 2017 IEEE International Conference on. IEEE, 2017. (**Corresponding Author**)
27. Anantharaman, RajaramST, Vidya AnantharamanST, and **Yugyung Lee**. "Oro Vision: Deep Learning for Classifying Orofacial Diseases." Healthcare Informatics (ICHI), 2017 IEEE International Conference on. IEEE, 2017. (**Corresponding Author**)
28. Chandrashekar, MayankaST, and **Yugyung Lee**. "Visual Context Learning with Big Data Analytics." *Data Mining Workshops (ICDMW), 2016 IEEE 16th International Conference on*. IEEE, 2016. **Corresponding Author**)
29. Shen, FeichenST, Hongfang Liu, Sunghwan Sohn, David W. Larson, and **Yugyung Lee**. "BmQGen: Biomedical query generator for knowledge discovery." In Bioinformatics and Biomedicine (BIBM), 2015 IEEE International Conference on, pp. 1092-1097. IEEE, 2015.
30. Vaka, PST, Shen, FST, Chandrashekar, MST and **Lee, Y**., PEMAR: A Pervasive Middleware for Activity Recognition with Smart Phones, Thirteenth IEEE International Conference on Pervasive Computing and Communications (PerCom) Workshop on the Impact of Human Mobility on Pervasive Systems and Applications (PerMoby 2015), 23-27 March 2015, St. Louis, Missouri, USA. (**Corresponding Author**)
31. Shen, FST and **Lee, Y**.,, SAMAF: Situation Aware Mobile Apps Framework, Thirteenth IEEE International Conference on Pervasive Computing and Communications (PerCom) Workshop on Context and Activity Modeling and Recognition (CoMoRea 2015) 23-27 March 2015, St. Louis, Missouri, USA. (**Corresponding Author**)
32. Zhao, SST, Chandrashekar, MST and **Lee, Y**., Medhi, D., Real-Time Network Anomaly Detection System Using Machine Learning, 11th International Conference on Design of Reliable Communication Networks 2015.
33. Shen, FST, Li, D., Liu, H., **Lee, Y**., Pathak, J., Chute, C., Tao, C., Using Semantic Web Technologies for Quality Measure Phenotyping Algorithm Representation and Automatic Execution on EHR Data, IEEE-EMBS International Conferences on Biomedical and Health Informatics, 2014.
34. **Lee, Y**., Jana, SST, Mylavarapu, T ST, Dinakarpandian, D., Owens, D., MindFlow: Intelligent Workflow for Clinical Trials in Mental Healthcare, 45th Hawaii International Conference on Systems Science (HICSS-45) January 3 – 7, 2012. (**Corresponding Author**)
35. Soni, SST, **Lee, Y**., 2012, E-SAVE: Saving Energy by Smart Services, WOWMOM conference, June 25 - 28, San Francisco, CA (short paper). (**Corresponding Author**)
36. Dasgupta, SST, Bhat, SST, **Lee, Y**., Taxonomic Clustering and Query Matching for Efficient Service Discovery, Application and Experiences, Proceedings of International Conference on Web Services (ICWS), Washington, DC, July 4 – 9, 2011 (Acceptance Rate: 11%) (**Corresponding Author**)
37. **Lee, Y**., Katakam, NST, Dinakarpandian, D., Owens, D., VirtualMindTrial: Virtual Clinical Trials for Mental Healthcare, 44th Hawaii International Conference on Systems Science (HICSS-44), 2011. (**Corresponding Author**)
38. **Lee, Y**., Dinakarpandian, D., Katakam, N.ST, Owens, D., MindTrial: An Intelligent System for Clinical Trials, American Medical Informatics Association (AMIA), 2010 Annual Symposiums. (**Corresponding Author**)
39. Moiz, FST, Leon-Salas, D., **Lee, Y**., A Wearable Motion Tracker, Fifth International Conference on Body Area Networks, Corfu island, Greece, September 10-12, 2010
40. Dasgupta, SST, Bhat, SST, **Lee, Y**., Taxonomic Clustering of Web Service for Efficient Discovery, the ACM Conference on Information and Knowledge Management (CIKM), Canada, 2010. (Acceptance Rate: 17.9%) (**Corresponding Author**)
41. Im, H., **Lee, Y**., Bahk, S., Incentive-driven Content Distribution in Wireless Multimedia Service Networks, IEEE Globecom 2010 - Communications Software, Services and Multimedia Applications Symposium (full paper acceptance rate: 1008/3688=27%)
42. Park, HST, Shin, SST, Choi, B., **Lee, Y**., "OMG: Ontology Based Group Mobility Generator," IEEE International Conference on Ubiquitous and Future Networks (ICUFN), Jeju Island, Korea, Jun. 2010.
43. Dasgupta, SST, Bhat, SST, **Lee, Y**., CAOFES: An Ontological Framework for Web Service Retrieval, The 18th ACM Conference on Information and Knowledge Management (CIKM-09), Hong Kong China, Nov. 2 – 6, 2009. (Acceptance rate: 15%) (**Corresponding Author**)
44. Dasgupta, SST, Bhat, SST, **Lee, Y**., An Abstraction Framework for Service Composition in Event-driven SOA systems, proceedings of International Conference on Web Services (ICWS), Los Angeles, California, July 6 – 10, 2009 (Acceptance rate: 15.6%) (**Corresponding Author**)
45. Kim, J., **Lee,  Y**., Bahk, S., SALSA: Super-Peer Assisted Live Streaming Architecture, Proceedings of IEEE International Conference on Communications (ICC), June 14-18 in Dresden Germany,  2009
46. Dasgupta, SST, Bhat, SST, **Lee, Y**., 2009, “Event Semantics for Service Composition in Pervasive Computing” Intelligent Event Processing - AAAI Spring Symposium, Stanford, California. (**Corresponding Author**)
47. Dasgupta, SST, Bhat, SST, and **Lee, Y**., 2009, "Event Driven Service Composition for Pervasive Computing", 7th IEEE International Conference on Pervasive Computing and Communications (PerCom 2009) Galveston, Texas, March 9-13, 2009 (Acceptance rate: 16%) (**Corresponding Author**)
48. Tong, TST, Dinakarpandian, D., **Lee, Y**., Literature Clustering using Citation Semantics. 42st Hawaii International Conference on Systems Science (HICSS-42 2009), 5-8 January 2009, Waikoloa, Big Island, HI, USA. pp.1-10. (**Corresponding Author**)
49. Dasgupta, SST, Bhat, SST, **Lee, Y**., 2009, SGPS: A Semantic Scheme for Context-Aware Event driven Web Service Similarity, 18th World Wide Web conference (poster), April 20 – 24th Madrid, Spain. (Acceptance rate: 12%) (**Corresponding Author**)
50. Leon-Salas, W. D., **Lee, Y**., Medhi, D., Joint Encryption/Multiple Access for Body Area Sensor Networks, 2008.
51. Dasgupta, SST, Dinakarpandian, **D., Lee**, Y., 2007, A Panoramic Approach to Integrated Evaluation of Ontologies in the Semantic Web, ISWC conference - EON workshop, Nov. 10 – 15. (**Corresponding Author**)
52. Dinakarpandian, D., Tong, TST, **Lee, Y**., 2007, Modeling Biomedical Assertions in the Semantic Web, ACM SAC Conference, March 11 -15, pp. 1357-1361
53. Lee, J., **Lee, Y**., Shah, SST, Geller, J., 2007, HIS-KCWater: Context-Aware Geospatial Data and Service Integration, ACM SAC Conference, March 11 -15, 24-29 (**Corresponding Author**)
54. Zhao, F. CST. **Lee, Y**., Medhi, D., Experiments with Query Expansion at TREC 2006 Legal Track, 2006.
55. Viswanath, VST, Tong, TST, Dinakarpandian, D., **Lee, Y**., 2006, Ontological Modeling of Transformation in Heart Defect Diagrams, American Medical Informatics Association (AMIA) Annual Symposium, Washington DC, Nov 15 – 19, 2006, pp. 799 - 803 [**Nominated for AMIA Distinguished Paper Award**] (**Corresponding Author**)
56. Vishwanath, KST, Viswanath, VST, Drake, W., **Lee, Y**., 2005, OntoDiagram: Automatic Diagram Generation for Congenital Heart Defects in Pediatric Cardiology, American Medical Informatics Association (AMIA) Annual Symposium, Washington DC, Oct 22 – 26, 2005 [**AMIA Distinguished Paper Award**] (**Corresponding Author**)
57. Vishwanath, KST, Gautum, AST, **Lee, Y**., 2005, Intelligent File Management in Ubiquitous Environments, ACM Symposium on Applied Computing (SAC), Santa Fe, New Mexico, March 13 -17, 2005 (**Corresponding Author**)
58. Jabisetti, NST and **Lee*,* Y**.*,* OWL-S-Based Autonomic Services for Grid Computing, 2005, in Proceedings of 2005 IEEE International Conference on Web Services (ICWS 2005).
59. Uppuluri, P., Jabisetti, NST, **Lee, Y**., and Joshi, U., 2005, P2P Grid: Service Oriented Framework for Distributed Resource Management, in Proceedings of 2005 IEEE International Conference on Web Services (ICWS 2005) (**Corresponding Author**)
60. **Lee, Y**., Patel, CST, Chun, S.A., and Geller, J., 2004, Towards Intelligent Web Services for Automating Medical Services Composition, in Proceedings of 2004 IEEE International Conference on Web Services (ICWS 2004 ) July 6-9, 2004, San Diego, California. pp. 384 – 391. (**Corresponding Author**)
61. Patel, CST, Supekar, KST, Lee, Y., 2004, Provisioning Resilient, Adaptive Web Services-based Workflow: A Semantic Modeling Approach, in Proceedings of 2004 IEEE International Conference on Web Services (ICWS 2004) July 6-9, 2004, San Diego, California. pp. 480 – 487. (**Corresponding Author**)
62. Supekar, KST, Patel, CST, **Lee, Y**., 2004, Web Service-based Workflows for Distributed Health Care Enterprises, Informatica-2004. Information & Communication Technologies in Healthcare Development 3rd Virtual Congress in Internet: March 1st to 30th, 2004 (**Corresponding Author**)
63. Parkhomenko, OST, **Lee, Y**., Patel, CST, 2004, Personalization using Hybrid Data Mining Approaches in E-business Applications, in Proceedings of AAAI Florida AI Research Symposium (FLAIRS-2004), May 17-19, 2004, Miami Beach, Florida. (**Corresponding Author**)
64. Supekar, KST, Patel, CST, **Lee, Y**., 2004, Characterizing Quality of Knowledge on Semantic Web, in Proceedings of AAAI Florida AI Research Symposium (FLAIRS-2004), May 17- 19, 2004, Miami Beach, Florida. (**Corresponding Author**)
65. Patel, CST, Supekar, KST, **Lee, Y**., Park, E.K., 2003, OntoKhoj: A Semantic Web Portal for Ontology Searching, Ranking and Classification, in Proceedings of ACM Fifth International Workshop on Web Information and Data Management (WIDM), New Orleans, Nov. 3 -8, 2003, pp. 58 - 61. (**Corresponding Author**)
66. Prasad, VST and **Lee, Y**., 2003, A Scalable Infrastructure for Peer-to-Peer Networks Using Web Service Registries and Intelligent Peer Locators, in Proceedings of IEEE 3rd International Symposium on Cluster Computing and the Grid (ccGrid-03) May 12 - 15, 2003 Tokyo, Japan, pp 216 – 223. (**Corresponding Author**)
67. Patel, CST, Supekar, KST, and **Lee, Y**., 2003, OntoGenie: Extracting Ontology Instances from WWW, in Proceedings of International Semantic Web Conference (ISWC) Workshop on Human Language Technology for the Semantic Web and Web Services, Sanibel Island, Florida, October 2003, pp. 127 – 130 (**Corresponding Author**)
68. **Lee, Y**., Oh, CST, Park, E.K., 2002, Knowledge Discovery in Peer-to-Peer File Sharing, in Proceedings of ACM Eleventh International Conference on Information and Knowledge (CIKM), pp. 308 – 315  (**Corresponding Author**)
69. Ayyasamy, SST, Patel, CST, **Lee, Y**., 2003, Semantic Web Services and DHT-based Peer to Peer Networks: A New Symbiotic Relationship, in Proceedings of Workshop on Semantics in Peer-to-Peer and Grid Computing at the Twelfth International World Wide Web Conference (WWW-03). Budapest, Hungary, May 20-24, 2003 (**Corresponding Author**)
70. Puradkar, SST, Singh, SST, Patel, CST, Vishwanath, KST, Gupta, RST, **Lee, Y**., 2003, SeMEther: Semantic Web based Pervasive Computing Framework Integrating Web, Devices and People, AAAI conference Demonstration, Proceedings of AAAI Conference (**Corresponding Author**)
71. Parkhomenko, OST, **Lee, Y**., Park, E. K., 2003, Ontology-Driven Peer Profiling in Peer-to-Peer Enabled Semantic Web, in Proceedings of ACM Twelfth International Conference on Information and Knowledge (CIKM), pp. 564 -567 (**Corresponding Author**).
72. Tak, SST, **Lee, Y**., Park, E.K., 2002, A Software Framework for Non-repudiation Service in Electronic Commerce based on the Internet, IEEE International Conference on Computer Communications and Networks (ICCCN-2002),  pp. 182 – 189
73. Junginger, MST and **Lee, Y**., 2002, The Multi-Ring Topology– High-Performance Group Communication in Peer-to-Peer Networks, Proceeding of IEEE Peer-to-Peer (P2P) Conference, pp. 49 – 56. (**Corresponding Author**)
74. **Lee, Y**., Tak, SST, Park, E. K., Stach, J., 2001, Secure and Sharable Data Warehouse/OLAP Model for E-COMMERCE, In Proceedings of High Performance Computing Symposium (HPC2001), pp.170-177.
75. **Lee, Y**., Geller, J., Park, E. K., Oh, C. ST, 2001, Data Mining with Distributed Agents in E-Commerce Applications, In Proceedings of the 14th International AAAI Florida AI Research Symposium (FLAIRS), AAAI Press, pp. 12-17. (**Corresponding Author**)
76. **Lee, Y**., Cho, YST, Stach, J., Park, E. K., 2001, Collaborative and Secure Resource Management with Distributed Agents, In Proceedings of IEEE International Conference Parallel and Distributed Systems (ICPAD2001), IEEE Computer Society, pp. 689-697. (**Corresponding Author**)
77. Tak, SST, **Lee, Y**., Park, E. K., Stach, J., 2001, Design and Evaluation of Adaptive Secure Protocol for E-Commerce, IEEE International Conference on Computer Communications and Networks (ICCCN-2001), pp. 32-39.
78. Cho, KST, Han, Y., **Lee, Y**., Park, E. K., 2001, Dynamic and Hierarchical Spatial Access Method using Integer Searching, ACM Tenth International Conference on Information and Knowledge (CIKM), pp. 341-348
79. Han, Y., and **Lee, Y**., 2000, Parallel Computation for Managing Transitive Relations, Proceedings of the Twelfth IASTED International Conference on Parallel and Distributed Systems (ICPDS), pp. 37 - 43.
80. **Lee, Y**., Ryoo, J. RST, Stach, J., Park, E. K., 2000, Composing Requirements for Goal-oriented System Behaviors using an Extended Form of Use Case, In Proceedings of IEEE Symposium on Application-Specific Systems and Software Engineering Technology (ASSET2000), pp. 91-96 (*Invited Paper*).
81. **Peer-reviewed Conference Poster**
82. Wang, Y., Tosh, P., Lee, J., **Lee, Y.**, Henderson, S., Song, S., & Choi, B. Y. (2018, September). An Interdisciplinary Educational Project Connecting Smart City Technology with Local Communities. In 2018 IEEE International Smart Cities Conference (ISC2) (pp. 1-2). IEEE.
83. **Lee, Y**., Krishnamoorthy, SST, Shen, FST, Jana, SST, Dinakar, D., Owens, D., 2012, Semantic Search Engine for Clinical Trials at  SHARPn Summit 2012, June 11th – 12th, Mayo Clinic in Rochester, MN. (**Corresponding Author**)
84. **Lee, Y**., Rao, P., Leon-Salas, D., Atom-processor based Intelligent Data Framework, Intel Research and Education Summit, Feb. 2012. (**Corresponding Author**)
85. Beard, C., Chen, Q., Kumar, V., **Lee, Y**., Leon-Salas, D., Rao, P., Smart Energy for Smart Life by E-SAVE, Intel Research and Education Summit, Feb. 2012.
86. **Lee, Y**., Patel, CST, Chun, S., Geller, J., 2004 Compositional Knowledge Management for Medical Services on Semantic Web, WWW-04 2004: 498-499. (**Corresponding Author**)
87. **Lee, Y**., Carroll, C., Medhi, D., 2002, A CORBA-Based Medical Decision Support System for Medication Error, in Proceedings of American Medical Informatics Association (AMIA-2002) p1078 (**Corresponding Author**)
88. Chong, QST, **Lee, Y**., Medhi, D., Kelly, K., Spertus, J., 2002, Metadata Management for Clinical Research Databases, in Proceedings of American Medical Informatics Association (AMIA-2002), pp. 999 (**Corresponding Author**)
89. Hetherington, T., Kim, J., **Lee, Y**., 2001, Distributed Adaptive Learning System, in Proceedings of ED-MEDIA, pp. 743-744

**5. Peer-reviewed Journal & Conference Publications (In Review)**

* + - 1. Ayoub R ST, **Lee Y**. Protein structure search to support the development of protein structure prediction methods. BMC Bioinformatics, 2019 (In Review)
      2. Chandrashekar, M. ST, & **Lee, Y**, CRL: Class Representative Learning for Image Classification”, The IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2019 (In Review)

1. **Journal & Conference Publications (10 Publications Under Preparation)**
2. **Presentation (2017 – Current)**

* DeepLite: An Intelligent Platform for IoT, NSF CBL Kick-off Meeting, October 16 to 18, 2019, Gainesville, FL
* ModelKB: Deep Model Management and Sharing, NSF CBL Kick-off Meeting, October 16 to 18, 2019, Gainesville, FL
* DeepLite: An Intelligent Platform for IoT, NSF CBL Kick-off Meeting, May 31 - June 1, 2018, Gainesville, FL
* DeepRecommender: Deep Recommendation using Conditional Generative Adversarial Nets, NSF CBL Kick-off Meeting, May 31 - June 1, 2018, Gainesville, FL
* DeepRobo: Cognitive Robotics using Distributed and Collaborative Deep Learning,  NSF CBL Kick-off Meeting, May 31 - June 1, 2018, Gainesville, FL
* DL4DL: Deep Learning for Deep Learning,NSF CBL Kick-off Meeting, May 31 - June 1, 2018, Gainesville, FL
* CBL Center Projects: Deep Cloud and Deep Lite, NSF CBL Information Day, March 9th, 2018
* Deep Learning and IoT based Remote Sensing in Healthcare, NSF CBL Planning Meeting, May 31 - June 1, 2018, Gainesville, FL
* Self-Growing and Transforming Smart Big Data through Intelligent IoT, NSF CBL Planning Meeting, March 8-9, 2017, Gainesville, FL
* Immersive Intelligence with Deep Learning for Monitoring Disease Progress, NSF CBL Planning Meeting, March 8-9, 2017, Gainesville, FL
* Online Learning for Human Behavior Prediction, NSF CBL Planning Meeting, March 8-9, 2017, Gainesville, FL

1. **Editorial Service**
2. A special issue of the International Journal of Next-Generation Computing on “The Cloud computing”. International Journal of Next-Generation Computing, **Lee, Y** and Rao, P. eds., vol. 2, no. 2, 2011
3. **Recent Activities for Teaching Workshops and Presentations (2012- Current)**
4. UMKC Hackathon, Primary role for organization (Sponsored by VinSolution, IBM, Cerner, DST, Ericsson, Cerner, etc), 2013 – Current
5. Intel Research and Teaching Summit, 2012 & 2013
6. Cerner University Summit, 2013
7. Smart Energy and Innovation, 2012 (Sponsor by IBM Smart Planet Grant)
8. MySmartSolar.edu, 2012 – 2013 (Solar energy, Paseo High School, Sponsor by KCP&L)
9. CS4HS (Computer Science for High School), 2013 (Sponsor by Google)
10. NCWIT (National Center for Woman and Information Technology)
11. MINK WIC (Missouri, Iowa, Nebraska, Kanas Women in Computing)
12. **RESEARCH SUPERVISION**

**PhD Advising**

1. **PhD Dissertation Students**
2. Duy Ho (2019 – Present) AR/VR and Deep Learning
3. Raj Marri (2019 – Present) Deep Learning and Edge Computing
4. Buddi, Siva Ayyappa Kumar (2019 – Present) Text Classification using Deep Learning
5. Yong Wang (2019 – Present) 3D Image Construction and 3D Printing
6. Albishri, Ahmed Awad H (2018 - Present), **Best PhD Student Award,** Deep Segmentation for MRI, CT Scan
7. Khan, Muhammad Zubair (2018 – Present) Deep Segmentation for MRI, CT Scan
8. Khushal Shah (2018 – Present) Deep Audio Classification
9. Zeenat Tariq (2018 – Present) Deep Audio Classification
10. Jawad Shah (2018 – Present), **Best PhD Student Award**, Deep Learning for Human Computer Communication using EEG
11. Alanazi, Rakan Nazal M (2017 – Present) Software Analytics – Code2Graph
12. Gharib Gharibi (2017 – Present), **Best PhD Student Award**, Autonomous Intelligent Software Systems
13. Ron Ayoub (2017 – Present) Scalable Protein Structure Search
14. Vijaya Kumari Yeruva (2017 – Present) Multi-modal Deep Sentiment Analysis
15. Saria Goudarzvand (2017 – Present) Deep Topic Modeling
16. Rohithkumar Nagulapati (2017 – Present) 3D Deep Learning
17. Rajaram Anantharaman (2017 – Present) Lightweight Deep Learning Applications
18. Mohamoud Ali (2016 – Present) Big Data Analytics and Applications
19. Matthew Jose Velazquez (2016 – Present) Visual Question Answering
20. Mayanka Chandra Shekar (2014 – Present) Dissertation Advisor, University Missouri Research Board (UMRB) Fund, **Best PhD Student Award**, Distributed and Intelligent Machine Learning
21. **Graduated PhD Students**
22. Feichen Shen (2012 – 2016) Dissertation Advisor, University Research Fellowship, **Best PhD Student Award**, **Nomination for UMKC Best Dissertation Award, “A Graph Analytics Framework for Knowledge Discovery”** (graduated in 2016, Working for Mayo Clinic as Research Associate)
23. Sourish Dasgupta (2006 - 2011) Dissertation Advisor, PFF Fellowship Awarded (graduated in 2011, Co-founder at Rygbee & Assistant Professor, Dhirubhai Ambani Institute of Information and Communication Technology)
24. Tuanjie Tong (2005 - 2010) Dissertation Advisor, Chancellor's Doctoral Fellowship (graduated in 2010)
25. **Incomplete PhD Students**
26. Michael Thomas Rzepka (2016 – 2018) Multi-Agent Distributed Operating System
27. Sourav Jana (2010 - 2013) Dissertation Advisor, Transferred to industrial position
28. Narendranadh Jabisetti (2004 – 2005) Dissertation Advisor, Transferred to industrial position
29. Olena Parkhomenko (2003 – 2004) Dissertation Advisor, Transferred to MS degree
30. **PhD Students I served as PhD Dissertation Committee**
31. Hyungbae Park (2012 – 2016) Dissertation Committee
32. Chetan Jaiswal (2013 – 2016) Dissertation Committee
33. Vasil Slavov (2013 – 2015) Dissertation Committee
34. **Danny (Daehee) Kim, (**2013 – 2015, May) Dissertation Committee
35. Vikas Gottemukkula (2013 – 2014) Dissertation Committee
36. Fahad Moiz (2007 – 2013) Dissertation Committee
37. Sachin Mathur (2007 – 2012) Dissertation Committee
38. Changhui Park (2010 – 2012) Dissertation Committee, Geosciences
39. Dzingirai Murambadoro (2005 – 2011) Dissertation Committee, Geosciences
40. Nitin Prabhu (2000 – 2006) Dissertation Committee
41. Sung Woo Tak (1999-2003) Dissertation Committee
42. Passakon Prathombutr (1999 – 2003) Dissertation Committee

**MS Advising**

* 1. **Master Thesis Students**

1. Trinadha Rajeswari Muppala, Identifying User Personality and Topics of Social Media, November 2019
2. Ruthvic Punyamurtula, KB4DL: Building a Knowledge Base for Deep Learning, May 3rd, 2019
3. Megha Nagabhushan, Deep Assertion Discovery using Word Embeddings, November 30th, 2018
4. Sidrah Junaid, Contextual Sentiment Framework for Social Media, November 30th, 2018
5. Prudhvi Sai Suggala, 3D Hand Pose Estimation via a Lightweight Deep Learning Model, Aug. 2nd, 2018
6. Nageswara Nandigam, Multi-Modal Multi-Task Distributed Recognition for Event Detection (MDRED) Framework for Complex Event Recognition, July 31, 2018
7. Rashmi Tripathi,SAF-DL: Semantic Analytics Framework for Deep Learning Open Source Projects, April 26, 2018
8. Ahmed Awad Albishri, Brain Image Segmentation Using Deep Learning, April 25, 2018.
9. Rashmi Tripathi, SAF-DL: Semantic Analytics Framework for Deep Learning Open Source Projects, April 26, 2018.
10. Karthik Reddy Vundela, CR-GAN: Content-based Recommender Systems with Conditional Generative Adversarial Networks, April 30, 2018.
11. Sudhakar Reddy Peddinti, Context based Multi-Image Visual Question Answering in Deep Learning, Dec. 2017 (Working for Walmart Lab as Data Engineer)
12. Naga Krishna Vadlamudi, Context-Based Video Classification and Retrieval Using Machine Learning Dec. 2017 (Working for Visa as Data Engineer)
13. Marmik Kumar N. Patel, H3DNET: A Hierarchical Deep Learning Framework For 3D Object Classification, Dec. 2017
14. Manikanta Maddula, DL-DI: A Deep Learning Framework for Distributed Incremental Image Classification, 2017
15. Rakesh Reddy Bandi, SigSpace-Text: Parallel and Distributed Signature Learning in Text Analytics, December 9, 2016
16. Ravi Kiran Yadavalli, DMLA: A Dynamic Model-based Lambda Architecture for Learning and Recognition of Features in Big Data, 2016
17. Lema Kandula, PPDQ-BG: Parallel Partition and Distributed Query Processing for Big Graphs, 2016
18. Prdyumna Doddala, SigSpace: Class-base Feature representation for Scalable and Distributed Machine Learning, 2016
19. Guru Teja Mannava, iHear: Lightweight Machine Learning Engine with Context Aware Recognition Model, 2016
20. Sravani Punyamurthula, Dynamic Model Generation & Semantic Search for Open Source Projects Using Big Data Analytics, 2015
21. Malathy Krishnan, Feature-based Analysis for Open Source using Big Data Analytics, 2015
22. Prakash Vaka, A Pervasive Middleware for Activity Recognition with Smart Phones. May 2015.
23. Megha Sharma, A Semantic Approach for Automatic Recovery of Software Architecture, December 2014.
24. Venkata Pramod Gupta Bavirisetty, Master Thesis Advisor, Evidence based Medical Query System for Large Scale Data, May 2014
25. Yashwanth Rao Dannamaneni, Master Thesis Advisor, Semantic Code Search and Analysis for Open Source Projects, May 2014
26. Anudeep Perasani, Master Thesis Advisor, Distributed RDF Query Processing and Reasoning for Big Data / Linked Data, May 2014
27. Vijay Walunj, Master Thesis Advisor, CSISE: Cloud-based Semantic Image Search Engine, August 2013.
28. Swati Soni, Master Thesis Advisor, Context-aware Adaptive Model for Smart Energy Management, **Nomination for UMKC Best Thesis Award**, July 2013.
29. Pratima Gorla, Master Thesis co-Advisor, Active Mobile Interface for Smart Health, May 2013
30. Sowmya  Ginjupalli, Master Thesis co-Advisor, A Gestural Human Interface for Smart Health, January 2013
31. Feichen Shen, Master Thesis Advisor, SAMAF: Situation Aware Mobile Apps Framework, August 2012
32. Teja Swaroop Mylavarapu, Master Thesis Advisor, SOCIALBRIDGE: An Integrated Social Network for Searching and Connecting People, May 2012
33. Shruthi Padmanabha, Master Thesis Advisor, Event Driven Querying in Semantic Sensor Framework, Feb. 24, 2012
34. Saranya Krishnamoorthy, Master Thesis co-Advisor, A Data Driven Semantic Framework for Clinical Trial Eligibility Criteria, MS Thesis, Nov. 30, 2011
35. Taru Garg, Master Thesis Advisor , Topic Network: A Semantic Model for Effective Learning, MS Thesis, May 4th, 2011
36. Nikhilesh Katakam, Master Thesis Advisor, Intelligent Questionnaire systems for Clinical Trial Systems, MS Thesis, 12-10-2010
37. Satish Bhat, Master Thesis Advisor, SeWS: A Semantic Framework for Web Service Management, MS Thesis, **Nomination for UMKC Best Thesis Award,** 8-6-2010.
38. Zheng Jia, Master Thesis Advisor, Open VideoBase: A Semantic Framework for Video Social Network, MS Thesis, 7-2-2010.
39. Nitin Mamillapally, Master Thesis Advisor , SViReC: A Framework to Facilitate Video Retrieval and Composition on the Semantic Web, MS Thesis, 12-18-2009.
40. Kartik Vishwanath, Master Thesis Advisor, OntoCompare: Assertion Based Comparison of Ontologies on Semantic Web, MS Thesis, 05-09-2008.
41. Hui Chang, Master Thesis Advisor, Research and Writing Supervision, Policy Based Adaptive Sensor Network, MS Thesis, 01-01-2007, 07-29-2007.
42. Venkatesh Subramaniam Viswanathan, Master Thesis Advisor, Automatic Diagram Generation based on Ontological Framework, **UMKC Best Thesis Award**, 03-22-2006, 03-22-2006
43. Sushil Puradkar, Master Thesis Advisor, Context aware service discovery and composition for Pervasive computing, MS Thesis, 2006.
44. Madhura Maideo, Master Thesis Advisor, A Semantic Framework for Context-Aware Data Mining, MS Thesis, 12-07-2005.
45. Olena Parkhomenko, Master Thesis Advisor, Semantic Routing and Search in P2P Networks with Ontology-driven Peer Profiling, MS Thesis, 12-13-2004.
46. Chintan Patel, Master Thesis Advisor, Ontolinks: Facilitating Conceptual Linking of Ontologies, **Best Graduate Student Award**, MS Thesis, 01-01-2004.
47. Lavanya Gundamaraju, Master Thesis Advisor, A Framework for a Decision Support System Based on Action-Patterns, MS Thesis, 03-07-2004.
48. Sanket Pai, Advisor, Research and Writing Supervision, An XML-Based Context-Aware Middleware for Location-based M-commerce Applications, MS Thesis, 11-30-2004.
49. Markus Junginger, A high Performance Messaging System for Peer-to-Peer Networks, MS Thesis, May 2003
50. Kaustubh Supekar, CoCo: Framework to Facilitate Scientific Collaboration on the Semantic Web, MS Thesis, Oct. 2003.
51. Quddus Chong, Meta Data Management, MS Thesis, MS Thesis, Fall, 2002.
52. Venkat Panchap, Distributed Processing Framework, Fall, MS Thesis, 2002.
53. Vani Prasad, Intelligent Locator for Peer-to-Peer Computing, MS Thesis, Fall, 2002.
54. Khemani, Ravi Prakash, Distributed Data Mining, MS Thesis, Fall, 2002.
55. Dasgupta Aditi Hierarchical Agent System for Peer-to-Peer Resource Discovery, Fall, 2002.
56. Anup Marward, Metadata Management in Distributed Medical Databases, Fall, 2002.
57. Changgyu Oh, Distributed File System based on Agent Technology, May 2002.
58. Man Yufu, Distributed Resource Management using Java Agents, December, 2001
59. Hongming Wang, A REUSABLE SELF-LEARNING 3-TIER DECISION TREES INDUCTION MODEL, December, 2001
60. Yanping Jin, Intelligent Information Retrieval using Distributed Software Agents, Master of Science thesis, May, 2001
61. Younki Cho, Framework for Efficient Resource Management in Collaboration and Distributive Computing Environment, Master of Science thesis, December, 2000
    1. **Master Thesis Committee**
62. Varun Chavakula, NCC-EM: A Hybrid Framework for Decision Making with Missing Information, December 19, 2017
63. Mohamed Gharibi, Building a Knowledge Graph for the Food, Energy and Water Systems, November 30, 2017
64. Samaa Gazzaz, A Data Science Approach to Extracting Insights About Cities and Zones Using Open Government Data, May 12, 2017
65. Gharib Gharibi, IMPLEMENTING PRODUCT LINE ARCHITECTURE WITH CODE GENERATION AND SEPARATION, May 6, 2016
66. Varun Narisetty, Integrating Features in the Development of Software Product Line Architecture, May 6, 2015
67. Li Wang, Classification of Clinical Tweets using Apache Mahout, January 2015.
68. Rajasekar Rajendran, IDENTIFYING RELATIONSHIPS AMONG DRUG SIDE-EFFECTS USING PROBABILISTIC RULE MINING, December 2014
69. Dinesh Barenkala, A Study of Graph Partitioning Techniques for Fast Indexing and Query Processing of a Large RDF Graph, August 19, 2013
70. Srivenu Paturi, A New Filtering Index for Fast Processing of SPARQL Queries, August 16, 2013
71. Jianfei Chen, A Study of Smart Device-based Mobile Imaging and Implementation for Engineering Applications, Master Thesis Committee, May 2013
72. Sharika Krishna Kumar, Design of a Wireless Platform for Wearable and Home Automation Applications, Master Thesis Committee, July 2012
73. Vasil Slavov, A Study of Internet-Scale Cardinality Estimation Algorithms for XPath Queries, Master Thesis Committee, July 2012.
74. Gregory Shannon Nichols, A Data Mining Study of G-QUADRUPLEXES and Their Effect on DNA Replication, Master Thesis Committee, May 2012
75. Tivakar Komara, Swami, Distributed Querying of Clinical Documents Modeled Using HL7 Version 3 Standard, Master Thesis Committee, Dec. 16, 2011
76. Chockalingam Eswaramurthy, SiDR: A Secure inter Domain Routing Protocol for Future Internet, Aug. 2011.
77. Pablo de Morais Andrade, A NEW CONSTRAINT-BASED ALGORITHM TO LEARN BAYESIAN NETWORK STRUCTURE FROM DATA: CONTROL OF PAIR-WISE SPURIOUS INFORMATION, April 2011.
78. Debargh Acharya, SECURITY IN PERVASIVE HEALTHCARE USING LOCATION BASED KEY GENERATION SCHEMES, July 18, 2011
79. Prashant Sunkari, INFOKIOSK: AN INFORMATION KIOSK WITH TEXT-FREE USER INTERFACE, Dec. 2010
80. Venkata Jamithireddy, Dec. 2010
81. Ramkumar Cherukuri, Master Thesis Committee, Integration of a Virtual routing Platform in the Great Plains Environment for Network Innovation, 08-06-2010
82. Varagur Muralidharan Shambavi, Master Committee, Management of Sensor Network Using Dynamic Subgraph Mining, MS Thesis, 08-09-2008.
83. Sourik Samddar, Master Committee, Reliable and Energy Efficient Routing using Probabilistic Approach in Wireless Sensor Networks (REPAWS) , MS Thesis, 12-07-2007.
84. John Joseph Howard, Master Committee, Benchmark, Thesis Committee, 06-29-2007.
85. Venetia Raheja, Master Committee, 12-15-2006.
86. Deepali Paknikar, Master Committee, 08-20-2006.
87. Sunil Wagh, Master Committee, Semantic Templates for Summarizing Results From Evidence Based Medicine Analyses, 05-03-2006.
88. Ashok K Dandpat, Master Committee, Classification of Multiplex Florescence In Situ Hybridization Images Using Fuzzy Clustering and Wavelets-Based Preprocessing , 12-16-2005.
89. Uday Joshi, Master Committee, Flexgrid: A Framework for Building P2P Based Internet Grids, 12-15-2005.
90. Deepti Agarwal, Master Committee, Roaming Decisions: Decision Support System Architecture for Smart Devices using Predefined Models, 10-14-2005.
91. Hangmei Lin, Master Committee, Studies on Modeling of Mutual Coupling Linear Dipole, Array, 05-06-2005.
92. Mayura Vuchuru, Master Committee, Detecting Race Condition Attacks on File Systems, 05-17-2005.
93. Brian K. Hare, Master Committee, Feature Selection in DNA Microarray Analysis, 12-10-2004.
94. **Courses Taught/Coordinated in Last Five Academic Years**

* **2017 – Current**
* **PhD and MS Thesis Courses**
  + CSEE5690 Research Method and Experimental Design
  + CSEE5690 Recent Advances in Deep Learning
* **Applied Programming Learning Series**
  + CSEE5590 Python and Deep Learning Programming
  + CSEE5590 Web/Cloud/Mobile Programming
  + CSEE5590 Deep Learning Programming
  + CSEE5590 IoT/Cognitive Robotics Programming
  + CSEE5590 Artificial Intelligent (AI) for Cybersecurity
* **2014 - 2017 Fall**
  + CS 5543RA Real-Time Big Data Analytics (New Course)
  + CS 5551 Advanced Software Engineering
* **2014 - 2017 Summer** 
  + CS 5560 Knowledge Discovery and Management
* **2014 – 2018 Spring**
  + CS 5542BD Big Data Analytics and Apps (New Course)
  + CS 5551 Advanced Software Engineering
* **2013 Fall**
  + CS 5590VC Mobile Cloud Computing (New Course)
  + CS 5551 Advanced Software Engineering
* **2013 Spring**
  + CS 5560 Knowledge Discovery and Management
  + CS 5551 Advanced Software Engineering

**New Courses Developed (2002 – 2019)**

1. Fall 2019, CSEE5690 Recent Advances in Deep Learning
2. Spring 2019, CSEE5590-0005 Intelligent Cybersecurity Programming
3. Fall 2018, CSEE5690 Research Methods and Experimental Design
4. Fall 2018, CSEE5590-0004 IoT and Cognitive Robotics programming
5. Summer 2018, CSEE5590-0003 Big Data Programming
6. Summer 2017, CSEE5590 Applied Programming Learning Series (2 courses: CSEE5590-0001: Python and Deep Learning programming for Scientist and Engineers, CSEE5590-0002: Programming for Web/Cloud Application Development)
7. Fall 2014, SCI 5590RA Real-Time Big Data Analytics
8. Summer 2014, SCI 5590BD Big Data Analytics and Apps
9. Fall 2013, SCI 5590VC, Mobile Cloud Computing
10. Summer 2013, COMP-SCI 490JU: Cloud-based Mobile Applications
11. Fall 2010, SCI 5590HM, Intelligent Human Motion
12. Spring 2010, CS5590VC Virtual Worlds in Computing
13. Fall 2008, SCI 5590L, Complex Systems & Adaptive Computing
14. Summer 2008, SCI 4490/5590VC, Virtual Worlds in Computing, NSF Funded
15. Spring 2008, SCI 5590CD, Creative Design for Software Systems, NSF Funded
16. Summer 2007, SCI 4490/5590SK, Software/Knowledge Engineering
17. Spring 2007, CS 590L, Principles of Software Architecture and Distributed Systems
18. Fall 2006:  CS590DM Distributed Systems for Mobile Applications
19. Winter 2004: CS560: Knowledge Management and Discovery
20. Winter 2003: CS690L: Data Mining and Knowledge Discovery: Theory, Tools, and Technology
21. Winter 2002: CS590L: Distributed Component Architecture
22. **PROFESSIONAL AND SERVICE ACTIVITIES in LAST FIVE ACADEMIC YEARS**

* Department
  + CSEE Seminar co-Coordinator, 2008 – 2010, 2013 – 2016
  + CSEE Tenure & Promotion Committee
  + CSEE Graduate DPC Member
  + CSEE PhD Supervisory Committee
  + CSEE MS Committee co-Chair
  + CSEE BS Program Committee
  + CSEE Department Faculty Search Committee, Chair
  + CSEE PhD Quality Evaluation Committee
* School of Computing and Engineering
  + SCE Tenure & Promotion Committee, 2014 - Current
  + SCE Evaluation Committee
  + Recruitment/Retention Committee
* University of Missouri – Kansas City
  + Faculty Senate, 2014 - Current
  + IPhD Coordinator (CS Discipline), 2014 - Current
  + Graduate Assistant Fund (GAF), 2009 - Current
  + Library Dean’s Search Committee
  + Faculty Research Grant (FRG) Committee
* Recent Professional Services
* Memberships on editorial boards
* International Journal of Next-Generation Computing (IJNGC)
* Open Journal of Semantic Web (OJSW)
* Professional society committees, editorships, panels, etc.
  + NSF Panels (3 times: March, June, October in 2019)
  + MDM publishing Chair, 2010
  + IEEE Region 5 Conference co-Chair (2009)
  + MDM Conference Proceeding Chair (2009 – 2010)
  + CIKM Publication Chair
* Program Committee Members
  + Semantic Web and Applications in ACM Symposium on Applied Computing
  + National Center for Woman and Information Technology (NCWIT) Academic Alliance
  + Missouri, Iowa, Nebraska, Kanas Women in Computing (MINK WIC) Committee
  + KC-Bancs (STEM Education) External Committee
* Journal Reviewers
* IEEE Transaction on Knowledge and Data Engineering
* IEEE Transaction on Service Computing
* Pervasive and Mobile Computing – Elsevier Journal
* The Scientific World Journal
* JCSE Journal Manuscript
* Journal of Biomedical Informatics
* IEEE Transactions on Information Technology in Biomedicine, International
* International Journal of Next-generation Computing (IJNGC)
* Elsevier Advances in Engineering Software
* Data Knowledge Engineering
* International Journal of Geo-information
* Conference Reviewers
* MDM conference
* SAC Ontology Engineering
* AMIA conference
* CIKM conference