
PERSONAL INFORMATION

Hung Manh La, Ph.D

Assistant Professor and Director of Advanced Robotics and Automation (ARA) Lab

Department of Computer Science and Engineering, University of Nevada, Reno

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EDUCATION

- Post-Doctor in Robotics and Control Systems, Rutgers University, New Jersey, USA, Sept. 2011 - Aug. 2012
(Advisor: Prof. Nenad Gucunski)
- Ph.D. in Electrical and Computer Engineering, Oklahoma State University, Oklahoma, USA, Aug. 2007- Aug. 2011
(Advisor: Prof. Weihua Sheng)
- M.S. in Electrical and Computer Engineering, Thai Nguyen University of Technology, Vietnam, Aug. 2001- Aug. 2003
(Advisor: Prof. Lap Q. Vo)
- B.S. in Electrical Engineering, Thai Nguyen University of Technology, Vietnam, Aug. 1996 - May 2001
(Advisor: Prof. Vy V. Nguyen)

WORK APPOINTMENTS

- Assistant Professor (Tenure Track), Dept. of Computer Science and Eng., University of Nevada, Reno, Jul. 2014 to Present
- Research Faculty, Center for Advanced Infrastructure and Transportation, Rutgers University, Sept. 2012 to Aug. 2014
- Post-Doctor, Center for Advanced Infrastructure and Transportation, Rutgers University, Sept. 2011 to Aug. 2012.
- Grad Research Assistant, Electrical and Computer Engineering Dept., Oklahoma State University, Aug.2007 to Aug. 2011.
- Senior lecturer (tenured), Electrical Engineering Dept., Thai Nguyen University of Technology, Aug. 2003 to Aug. 2007.
- Lecturer, Electrical Engineering Dept., Thai Nguyen University of Technology, Sept. 2001 to Aug. 2003.

RESEARCH INTEREST

- Autonomous robotic systems
 - Autonomous vehicles/robots
 - Human/robot interactions and learning
- Mobile sensor networks
 - Cooperative formation control
 - Cooperative sensing and learning
 - Intelligent sensing and embedded computation
- Automation science and engineering
 - Civil infrastructure (bridges) inspection and evaluation
 - Intelligent transportation systems
- Dynamic systems and controls
 - Nonlinear, robust, and adaptive control system design
 - Smart materials/structures and vibration control

AWARDS AND HONORS

- **Ten Best Paper Short List** "Development of a Smart Shoe for Building a Real-Time 3D Map" the 32nd *International Symposium on Automation and Robotics in Construction and Mining (ISARC)*, June 15-18, 2015, Oulu, Finland.
- **Best Paper Award** "iChair: Intelligent Powerchair for Severely Disabled People," *ISAAT International Conference on Modeling of Complex Systems and Environments (MCSE)*, June, 2015, Da Nang, Vietnam.
- The 2014 ASCE (American Society of Civil Engineers) **Charles Pankow Award** for Innovation for Robotics Assisted Bridge Inspection Tool (RABIT™), at the ASCE's Outstanding Projects and Leaders (OPAL) Gala, March 20, 2014, Arlington, Virginia, USA. Charles Pankow award is one the most prestigious awards from ASCE.
- **Best Paper Award** "Hybrid system of reinforcement learning and flocking control in multi-robot domain," *Conference on Theoretical and Applied Computer Science*, November 5, 2010, Oklahoma, USA.
- **Best Paper Presentation** "Moving targets tracking and observing in a distributed mobile sensor network," in Session of the Control of Networks, *American Control Conference*, June 10 - 12, 2009, St. Louis, Missouri, USA.
- **Best Paper Award** "Multi-target tracking and observing in mobile sensor networks". *Conference on Theoretical and Applied Computer Science (TACS09)*, October 24, 2009,
- **Travel Award** to attend the American Control Conference, Missouri, USA, 2009.
- **First prize of the 2008 Electrical and Computer Engineering Design Day**, Oklahoma State University. Project titled "Multiple Dynamic Target Tracking and Observing in a Mobile Sensor Network".

TEACHING EXPERIENCES

- **University of Nevada, Reno (2014-Present): Instructor**
 - CS491X/691X/791X: Mobile Sensor Networks, Fall 2014
 - CS491X/691X/791X: Robotics, Fall 2015
- **Rutgers University (2013-2014): Instructor**
 - Robotics and Applications, New Jersey Governor's School Class, July 2013
 - Robotics and Applications, New Jersey Governor's School Class, July 2014
- **Thai Nguyen University of Technology (2001-2007): Instructor**
 - EE301. Electronic devices.
 - EE320. Analog circuit techniques.
 - EE402. Digital circuit techniques.

GRANTS

1. NSF Grant: NSF-ICorps-1559942

H. M. La (PI). I-Corps Team: **Drone and Robotic Systems for Civil Infrastructure Inspection and Environmental Monitoring.** *NSF- Innovation Corps Program (ICorps)*. Amount: **\$64,575** (\$50,000 NSF and \$14,575 UNR matching); 11 months: Nov. 2015- Sept. 2016.

2. NSF Grant: NSF-ICorps-1535716

H. M. La (PI). ICorps Team: **Development and Commercialization of Bridge Inspection Robotic Systems.** *NSF- Innovation Corps Program (ICorps)*. Amount: **\$64,575** (\$50,000 NSF and \$14,575 UNR matching); 6 months: Apr. 2015- Sept. 2015.

3. NSF Grant: NSF-NRI-1426828

H. M. La (Co-PI), J. Yi (PI at Rutgers), N. Gucunski (Co-PI at Rutgers) and D. Song (PI at Texas A&M). **NRI: Collaborative: Minimally Invasive Robotic Non-Destructive Evaluation and Rehabilitation for Bridge Decks (Bridge-MINDER).** *NSF-National Robotics Initiative (NRI)*. Amount: **\$928,499**; 3 years: Aug. 2014- July. 2017.

POSTDOC MENTORING

1. Jesse Leaman. Research Topic: Smart wheelchair development for severely disabled people, started Spring 2015.

GRADUATE STUDENT ADVISING

PhD Student Advising:

1. Luan V. Nguyen (PhD student). Research Topic: Human motion tracking, localization and mapping. Started in Fall 2014 and Graduate Expectation in Fall 2018.
2. Dzung T. Le (PhD student). Research Topic: Human-robot collaboration for civil infrastructure inspection and evaluation. Started in Fall 2015 and Graduate Expectation in Fall 2019.
3. Nhan H. Pham (PhD student). Research Topic: Hybrid system development for UAVs and UGVs. Started in Fall 2015 and Graduate Expectation in Fall 2020.

PhD Student Committee:

1. Nithya Mohan (PhD student)- Department of Electrical and Biomedical Engineering.

Master Advising and Committee:

1. Alexander Woods (Master student). Research Topic: Control system design for drone localization and navigation. Started in Fall 2014 and Graduate Expectation in Spring 2016.
2. Udaya Guntapally (Master student). Research Topic: Robotic System Development for Bridge Inspection. Started in Fall 2015 and Graduate Expectation in Fall 2017.
3. Devin Connell (Master student). Research Topic: Dynamic motion planning and navigation. Started in Fall 2015 and Graduate Expectation in Spring 2017.

DEPARTMENT COMMITTEE

1. Department Graduate Committee Member: July 2014 - Present.
2. Department Colloquium Committee Member: July 2014 - Present.
3. Department Personnel – Search Committee (Big Data & Cybersecurity): Spring 2016

PUBLICATIONS

Book chapters:

[B3] **H. M. La**, Multi-Robot Swarm for Scalar Field Mapping, in *Handbook of Research on Design, Control, and Modeling of Swarm Robotics*, IGI Global, 2015. (To appear)

- [B1] **H. M. La**, and W. Sheng, Flocking control algorithms for multiple agents in cluttered and noisy environments, in *Bio-Inspired Self-Organizing Robotic Systems, Studies in Computational Intelligence*, Springer-Verlag Berlin Heidelberg, Vol. 355, pp. 53-79, 2011.

Journal Publications:

- [J15] N. Gucunski, S. H. Kee, **H. M. La**, B. Basily and A. Maher. Delamination and concrete quality assessment of concrete bridge decks using a fully autonomous RABIT platform, *International Journal of Structural Monitoring and Maintenance*, Vol. 2, No. 1, pp. 19-34, April, 2015.
- [J14] **H. M. La**, N. Gucunski, S. H. Kee and L. V. Nguyen. Data Analysis and Visualization for the Bridge Deck Inspection and Evaluation Robotic System, *Springer Journal of Visualization in Engineering*, Vol. 3, No. 6, Feb. 2015.
- [J13] P. Prasanna, K. J. Dana, N. Gucunski, B. B. Basily, **H. M. La**, R. S. Lim and H. Parvardeh. Automated Crack Detection on Concrete Bridges, *IEEE Transactions on Automation Science and Engineering*, Vol. PP, no.99, pp.1-9, 2014. (To appear)
- [J12] **H. M. La**, R. S. Lim and W. Sheng. Multi-robot cooperative learning for predator avoidance, *IEEE Transactions on Control Systems Technology*, Vol.23, No.1, pp.52-63, Jan. 2015.
- [J11] **H. M. La**, W. Sheng and J. Chen. Cooperative and active sensing in mobile sensor networks for scalar field mapping, *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems*, vol.45, no.1, pp.1-12, Jan. 2015
- [J10] R. S. Lim, **H. M. La** and W. Sheng. A Robotic crack inspection and mapping system for bridge deck maintenance, *IEEE Transactions on Automation Science and Engineering*, pp. 367-378, Vol. 11, No. 2, April 2014.
- [J9] N. Gucunski, A. Maher, B. B. Basily, **H. M. La**, R. S. Lim, H. Parvardeh, and S.-H. Kee. Robotic Platform RABIT for Condition Assessment of Concrete Bridge Decks Using Multiple NDE Technologies, *Journal of Croatian Society for Non Destructive Testing*, No. 12, pp. 5-12, 2013.
- [J8] **H. M. La**, R. S. Lim, B. B. Basily, N. Gucunski, J. Yi, A. Maher, F. A. Romero and H. Parvardeh. Mechatronic systems design for an autonomous robotic system for high-efficiency bridge deck inspection and evaluation, *IEEE Transactions on Mechatronics*, pp. 1655-1664, Vol. 18, No. 6, December, 2013.
- [J7] **H. M. La** and W. Sheng. Distributed sensor fusion for scalar field mapping using mobile sensor networks, *IEEE Transactions on Cybernetics*, pp. 766-778, Vol. 43, No. 2, April, 2013.
- [J6] **H. M. La** and W. Sheng, Multi-agent motion control in cluttered and noisy environment. *Journal of Communications*, pp. 32-46, Vol. 8, No. 1, January, 2013.
- [J5] **H. M. La**, R. S. Lim, J. Du, S. Zhang, G. Yan and W. Sheng. Development of a small-scale research platform for intelligent transportation systems, *IEEE Transactions on Intelligent Transportation Systems*, pp. 1753 - 1762, Vol. 13, No. 4, Dec., 2012.
- [J4] **H. M. La** and W. Sheng. Dynamic targets tracking and observing in a mobile sensor network, *Elsevier Journal of Robotics and Autonomous Systems*, pp. 996-1009, Vol. 60, No.7, July, 2012.
- [J3] W. Sheng and **H. M. La**. Networks of cooperative mobile sensors for mapping, *Defense and Security, SPIE Newsroom*, August, 2011.
- [J2] C. V. Nguyen and **H. M. La**. A method of designing a sliding controller for SISO nonlinear model based on diffeomorphism, *Journal of Science and Technology*, Thai Nguyen University, Vol. 2, No. 1, 2006. (In Vietnamese)
- [J1] **H. M. La** and L. Q. Vo. Improving quality of the robot manipulator control by using an adaptive control method based on the basic model, *Journal of Science and Technology*, Thai Nguyen University, Vol. 1, No. 4, 2004. (In Vietnamese)

Conference Publications:

- [C27] A. Woods and **H. M. La**. Dynamic Target Tracking and Obstacle Avoidance using a Drone, *the 11th International Symposium on Visual Computing (ISVC)*, Dec. 14-16, 2015, Las Vegas, USA.

- [C26] M. T. Nguyen, **H. M. La** and K. A. Teague. Compressive and Collaborative Mobile Sensing for Scalar Field Mapping in Robotic Networks, *the 53rd Annual Allerton Conference on Communication, Control, and Computing*, pages, Sept. 29-Oct. 2, 2015, Urbana-Champaign, Illinois, USA.
- [C25] N. Gucunski, S. Kee, **H. M. La**, B. Basily, A. Maher and H. Ghasemi. Implementation of a Fully Autonomous Platform for Assessment of Concrete Bridge Decks RABIT, *Structures Congress*, pages 367-378, April 23-25, 2015, Portland, Oregon, USA.
- [C24] L. V. Nguyen and **H. M. La**. Development of a Smart Shoe for Building a Real-Time 3D Map, *the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC)*, pages, June 15-18, 2015, Oulu, Finland.
- [C23] K. Dinh, N. Gucunski, J. Y. Kim, T. Duong, **H. M. La**. Attenuation Model for GPR Data of Concrete Bridge Decks, *the 32st International Symposium on Automation and Robotics in Construction and Mining (ISARC)*, pages, June 15-18, 2015, Oulu, Finland.
- [C22] T. Nguyen, **H. M. La** and M. Jafari. On the Formation Control of a Multi Vehicle System, *the ISSAT International Conference on Modeling of Complex Systems and Environments (MCSE)*, pages, June 8-10, 2014, Da Nang, Vietnam.
- [C21] L. V. Nguyen, **H. M. La**, and T. Duong. Dynamic Human Gait Phase Detection Algorithm, *the ISSAT International Conference on Modeling of Complex Systems and Environments (MCSE)*, pages, June 8-10, 2014, Da Nang, Vietnam.
- [C20] J. Leaman and **H. M. La**. iChair: Intelligent Powerchair for Severely Disabled People, *the ISSAT International Conference on Modeling of Complex Systems and Environments (MCSE)*, pages, June 8-10, 2014, Da Nang, Vietnam.
- [C19] **H. M. La**, N. Gucunski, S. H. Kee, J. Yi, T. Senlet and L. V. Nguyen. Autonomous Robotic System for Bridge Deck Data Collection and Analysis, *Proceedings of IEEE International Conference on Intelligent Robots and Systems (IROS)*, pages 1950-1955, September 14-18, 2014, Chicago, USA.
- [C18] T. T. Nguyen and **H. M. La**. Formation Control of Multiple Rectangular Agents with Limited Communication Ranges, *the 10th International Symposium on Visual Computing (ISVC)*, Dec. 8-10, 2014, Las Vegas, USA.
- [C17] **H. M. La**, N. Gucunski, S. H. Kee, and L. V. Nguyen. Visual and Acoustic Data Analysis for the Bridge Deck Inspection Robotic System, *the 31st International Symposium on Automation and Robotics in Construction and Mining (ISARC)*, pages 50-57, July 9-11, 2014, Sydney, Australia.
- [C16] **H. M. La**, R. S. Lim, B. B. Basily, N. Gucunski, J. Yi, A. Maher, F. A. Romero and H. Parvardeh. Autonomous Robotic System for High-Efficiency Non-Destructive Bridge Deck Inspection and Evaluation, in *Proceedings of IEEE International Conference on Automation Science and Engineering (CASE)*, pp. 1065-1070, August 17 - 21, 2013, Madison, WI, USA.
- [C15] **H. M. La**, W. Sheng and J. Chen. Cooperative and active sensing in mobile sensor networks for scalar field mapping, in *Proceedings of IEEE International Conference on Automation Science and Engineering (CASE)*, pp. 843-848, August 17 - 21, 2013, Madison, WI, USA.
- [C14] **H. M. La**, R. S. Lim, W. Sheng and J. Chen. Cooperative flocking and learning in multi-robot systems for predator avoidance, in *Proceedings of IEEE International Conference on CYBER Technology on Automation, Control and Intelligent Systems (CYBER)*, May 26 - 29, 2013, Nanjing, China.
- [C13] R. S. Lim, **H. M. La**, Z. Shan and W. Sheng. Developing a crack inspection robot for bridge maintenance, in *Proceedings of IEEE International Conference on Robotics and Automation (ICRA)*, pp. 6288 - 6293 May 9 - 13, 2011, Shanghai, China.
- [C12] **H. M. La**, R. S. Lim, J. Du, W. Sheng, G. Li, S. Zhang and H. Chen. A small-scale research platform for intelligent transportation systems, in the *proceedings of IEEE International Conference on Robotics and Biomimetics (ROBIO)*, pp. 1373 - 1378, December 7-11, 2011, Phuket, Thailand.

- [C11] **H. M. La** and W. Sheng. Cooperative sensing in mobile sensor networks based on distributed consensus, the *Signal and Data Processing of Small Targets conference, Proceedings of SPIE's*, Vol. OP110, August 23 - 25, 2011, San Diego, California, USA.
- [C10] **H. M. La**, R. S. Lim, H. Chen and W. Sheng, Decentralized flocking control with minority of informed agents, in the proceedings of *IEEE Conference on Industrial Electronics and Applications (ICIEA)*, pp. 1851 - 1856, June 21 - 23, 2011, Beijing, China.
- [C9] **H. M. La** and W. Sheng. Flocking control of multiple agents in noisy environments, in the proceedings of *the IEEE International Conference on Robotics and Automation (ICRA)*, pp. 4964 – 4969, May 3 - 8, 2010, Alaska, USA.
- [C8] **H. M. La**, R. S. Lim and W. Sheng, Hybrid system of reinforcement learning and flocking control in multi-robot domain, in the proceedings of *the Conference on Theoretical and Applied Computer Science (TACS)*, pp. 7-13, November 5, 2010, Stillwater, Oklahoma, USA. **(Best Paper Award)**
- [C7] **H. M. La** and W. Sheng. Flocking control algorithms for multiple agents in cluttered and noisy environments, *Workshop in Bio-Inspired Self Organizing Robotic Systems on the IEEE International Conference on Robotics and Automation (ICRA)*, May 3 - 8, 2010, Alaska, USA.
- [C6] **H. M. La** and W. Sheng. Multi-target tracking and observing in mobile sensor networks, in the proceedings of *the Conference on Theoretical and Applied Computer Science (TACS)*, October 24th, 2009, Oklahoma State University, Stillwater, Oklahoma, USA.
- [C5] **H. M. La**, T. H. Nguyen, C. H. Nguyen and H. N. Nguyen. Optimal flocking control for a Mobile Sensor Network Based a Moving Target Tracking, in the proceedings of *the IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, pp. 4801 – 4806, October 11 - 14, 2009, San Antonio, Texas, USA.
- [C4] **H. M. La** and W. Sheng. Adaptive flocking control for dynamic target tracking in mobile sensor networks, in the proceedings of *IEEE International Conference on Intelligent Robots and Systems (IROS)*, pp. 4843 – 4848, October 11 - 15, 2009, St. Louis, Missouri, USA.
- [C3] **H. M. La** and W. Sheng. Moving targets tracking and observing in a distributed mobile sensor network, in the proceedings of *the American Control Conference (ACC)*, pp. 3319 – 3324, June 10 - 12, 2009, St. Louis, Missouri, USA. **(Best Paper Presentation in Network Control Session)**
- [C2] **H. M. La** and W. Sheng. Flocking control of a mobile sensor network to track and observe a moving target, in the proceedings of *IEEE International Conference on Robotics and Automation (ICRA)*, pp. 3129 – 3134, May 12 - 17, 2009, Kobe, Japan.
- [C1] **H. M. La** and W. Sheng. Robust adaptive control with leakage modification for a nonlinear model of Ionic Polymer Metal Composites (IPMC), in the proceedings of *IEEE International Conference on Robotics and Biomimetics (ROBIO)*, pp. 1783 – 1788, December 14 - 17, 2008, Bangkok, Thailand.

Media Exposure and News:

[M7] Feds (FHWA) demonstrate bridge inspection robot, *By Matt Nussbaum / Pittsburgh Post-Gazette*, June 12, 2014, Available at:

<http://www.post-gazette.com/news/transportation/2014/06/13/Feds-demonstrate-bridge-inspection-robot/stories/201406130023>

[M6] One-of-a-Kind Robot Inspects D.C. Area Bridges, *NBC4 Washington*, Feb.26, 2013.

Link:<http://www.nbcwashington.com/news/local/One-of-a-Kind-Robot-Inspects-DC-Area-Bridges-193127901.html>

[M5] Bridge Inspection: FHWA deploys robot to collect bridge information, *Roads and Bridges News*, May 20, 2013.

<http://tsp2bridge.pavementpreservation.org/2013/05/29/new-robot-to-help-fhwa-save-time-money-on-bridge-inspections/>

- [M4] N. Gucunski, **H. M. La**, R. S. Lim, B. B. Basily, J. Yi, A. Maher, F. A. Romero and H. Parvardeh, The future of bridge health management: A revolutionary new technology to assess and monitor bridge deck condition , *Rutgers Transportation Today*, Issue 11, Jan., 2013. Link: http://cait.rutgers.edu/system/files/u10/CAIT_NL11-Jan_2013.pdf
- [M3] Rutgers Robot Leads Revolutionary Future of Bridge Health Management, Rutgers University News.
Link: <http://soe.rutgers.edu/rutgers-robot-leads-revolutionary-future-bridge-health-management>
- [M2] W. Sheng and **H. M. La**, Networks of cooperative mobile sensors for mapping, *SPIE Newsroom*, Aug. 30th, 2011. Link: <https://spie.org/x56920.xml?ArticleID=x56920>
- [M1] W. Sheng, **H. M. La**, R. S. Lim and Z. Shan, Vision-guided robotics: Intelligent robot performs bridge integrity analysis, *Vision Systems Design*, Sept. 1st, 2011.
Link: <http://www.vision-systems.com/articles/print/volume-16/issue-9a/departments/technology-trends/vision-guided-robotics-intelligent-robot-performs-bridge-integrity-analysis.html>

Theses:

- [T3] **H. M. La**, Cooperative control, learning and sensing in mobile sensor networks, *Ph.D. thesis*, Oklahoma State University, U.S.A., August 2011 (supervised by Prof. Weihua Sheng).
- [T2] **H. M. La**, Development of an adaptive controller to control and synthesize nonlinear systems, *Master thesis*, Thai Nguyen University of Technology, Vietnam, Jul. 2003 (supervised by Prof. Lap Q. Vo).
- [T1] **H. M. La**, Adaptive control for DC motors, Bachelor thesis, Thai Nguyen University of Technology, Vietnam, Jul. 2001 (supervised by Prof. Vy V. Nguyen).

PRESENTATIONS AND TALKS

- Paper presentations in the ISSAT International Conference on Modeling of Complex Systems and Environments (MCSE), June 8-10, 2014, Da Nang, Vietnam. .
- Paper presentations in the 10th International Symposium on Visual Computing (ISVC), Dec. 8-10, 2014, Las Vegas, USA.
- Paper presentations in the IEEE International Conference on Intelligent Robots and Systems (IROS), September 14-18, 2014, Chicago, USA.
- Paper presentations in the 31st International Symposium on Automation and Robotics in Construction and Mining (ISARC), July 9-11, 2014, Sydney, Australia.
- Invited talk: Development of Mobile Sensor Networks and Intelligent Robotic Systems for Real World Applications, Dept. of Electrical and Computer Engineering, Southern Illinois University, March 6th, 2014, Carbondale, Illinois.
- Invited talk: Development of Mobile Sensor Networks and Mobile Robotic Systems for Real World Applications, Dept. of Electrical and Computer Engineering, University of Michigan, February 20th, 2014, Dearborn, Michigan.
- Invited talk: Development of Mobile Sensor Networks and Mobile Robotic Systems for Real World Applications, Dept. of Electrical and Computer Engineering, Widener University, February 10th, 2014, Chester, Pennsylvania.
- Paper presentations in the IEEE International Conference on Automation Science and Engineering (CASE), August 17 - 21, 2013, Madison, WI, USA.
- Invited talk: Cooperative Control, Learning and Sensing in Mobile Robot Networks, School of Engineering Control/Robotics seminar, Rutgers University, September, 2011, Piscataway, New Jersey.
- Invited talk: Cooperative Control, Learning and Sensing in Mobile Robot Networks, Department of Technological Studies, Ohio Northern University, June, 2011, Ada, Ohio.
- Paper presentation in the Conference on Theoretical and Applied Computer Science (TACS), 2010, Oklahoma, USA.

- Paper presentation in the workshop of the International Conference on Intelligent Robotics and Automation (ICRA), 2010, Anchorage, Alaska, USA.
- Paper presentation in the International Conference on Intelligent Robotics and Automation (ICRA), 2010, Anchorage, Alaska, USA.
- Paper presentation in the Conference on Theoretical and Applied Computer Science (TACS), 2009, Oklahoma, USA.
- Paper presentation in the International Conference on Intelligent Robots and Systems (IROS), 2009, St. Louis city, Missouri, USA.
- Paper presentation in the American Control Conference (ACC), 2009, St. Louis city, Missouri, USA.
- Poster presentations in the 2007, 2008, 2009 Electrical and Computer Engineering Design Day, Oklahoma State University, USA.

ACADEMIC SERVICE

- **Editorial Board** of International Journal of Automation and Control (2015- Present)
- **Editorial Board** of International Journal of Robotic Engineering (2015- Present)
- **Guest Editor for Special Issue** “Consensus-based Applications in Networked Systems”, International Journal of Robust and Nonlinear Control, 2015-2016
- **Program Committee** of the track "Coordination Models, Languages and Applications" at *the 31th ACM Symposium on Applied Computing (SAC'16)*, April 3 - 8, 2016, Pisa, Italy.
- **Organizer** of the special track "Visual Perception and Robotic Systems " at the *11th International Symposium on Visual Computing*, Dec. 14-16, 2014, Las Vegas, NV, USA
- **Program Chair** of the ISSAT International Conference on Modeling of Complex Systems and Environments (MCSE), June 8-10, 2015, Da Nang, Vietnam.
- **Program Committee** of the track "Coordination Models, Languages and Applications" at *the 30th ACM Symposium on Applied Computing (SAC'15)*, April 13 - 17, 2015, Salamanca, Spain.
- **Organizer** of the special track "Visual Perception and Robotic Systems " at the *10th International Symposium on Visual Computing*, Dec. 8-10, 2014, Las Vegas, NV, USA
- **Program Committee** of the *4th Annual IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (IEEE-CYBER)*, June 4-7, 2014, Hong Kong, China.
- **Program Committee** of the special Session “Self-organizing multi-agent systems: Technologies and applications” at *the 8th International KES Conf. on Agents and Multi-agent Systems – Technologies and Applications*, June 18 – 20, 2014, Chania, Greece,
- **Program Committee** (Track Chair of Robotics and Mechatronics) of *the 31st International Symposium on Automation and Robotics in Construction (ISARC)*, July 9 to July 11, 2014, Sydney, Australia
- **Program Committee** of the “International Workshop on Autonomic High Performance Computing” (AHPC) at *the International Conference on High Performance Computing & Simulation (HPCS)*, July 21-25, 2014, Bologna, Italy
- **Program Committee** of Coordination Models, Languages and Applications, Special Track of *the 29th ACM Symposium on Applied Computing (SAC'14)*, March 24 - 28, 2014, Gyeongju, Korea.
- **Program Committee** of *the Conference on Theoretical and Applied Computer Science (TACS)*, 2010, Stillwater city, Oklahoma, USA.
- **Program member** for supporting the organizing committee of *the International Conference on Intelligent Robots and Systems (IROS)*, 2009, St. Louis city, Missouri, USA.

- **Journal and Conference Reviewer for:**

Journal Reviewer:

- o **IEEE** Transactions on Automatic Control (2015-present)
- o **IEEE** Transactions on Industrial Informatics (2015-present)
- o **IEEE** Transactions on Vehicular Technology (2015-present)
- o **IEEE** Transactions on Control of Network Systems (2014-present)
- o **IEEE** Transactions on Cybernetics (2014-present)
- o **IEEE** Transactions on Intelligent Transportation Systems (2014-present)
- o **IEEE** Transactions on Automation Science and Engineering (2011-present)
- o **IEEE** Transactions on Systems, Man and Cybernetics: Systems (2013-present)
- o **IEEE** Transactions on Mechatronics (2014-present)
- o **ACM** Transactions on Autonomous and Adaptive Systems (2015-present)
- o **Elsevier** Journal of Robotics and Autonomous Systems (2015-present)
- o **Elsevier** Journal of Control Engineering Practice (2011-present)
- o **Elsevier** journal of Franklin Institute (2012-present)
- o **Elsevier** Journal of Systems Architecture (2013-present)
- o **Elsevier** Journal of Digital Signal Processing (2014-present)
- o **Elsevier** Journal of Systems & Control Letters (2012-present)
- o **Elsevier** Journal of Automation in Construction (2014-present)
- o **Elsevier** Journal of Construction & Building Materials (2014-present)
- o **Springer** Journal of Autonomous Agents and Multi-Agent Systems (2013-present)
- o **Springer** Journal of Visualization in Engineering (2014-present)
- o **International** Journal of Control (2011-present)
- o **International** Journal of Automation and Computing (2014-present)
- o **International** Journal of Automation and Control (2015- Present)
- o **Journal** of Sensor and Actuator Networks (2012-present)
- o **Journal** of Actuators (2013-present)
- o **Journal** of Applied Statistics (2013)

Conference Reviewer:

- o **IEEE** CYBER (2014-present)
- o **IEEE** International Conference on Robotics and Automation (ICRA, 2009-present)
- o **IEEE** Conference on Decision and Control (CDC, 2010-present)
- o **IEEE** International Conference on Intelligent Robots and Systems (IROS, 2009-present)
- o **IEEE** International Conference on Automation and Science Engineering (CASE, 2013-present)
- o **IEEE** International Conference on Intelligent Transportation Systems (ITS, 2013-present)
- o **IEEE** Global Communications Conference (2015-present)
- o **IEEE/ASME** Conference on Advanced Intelligent Mechatronics (AIM 2010)
- o International Symposium on Visual Computing (2014)
- o International Symposium on Automation and Robotics in Construction (ISARC, 2014-present)
- o **ACM** Symposium on Applied Computing (SAC, 2013-present)
- o International Workshop on Autonomic High Performance Computing (2014)
- o **American** Control Conference (ACC 2009-present)

- o Dynamic Systems and Control Conference (DSCC, 2013-present)
- o Conference on Theoretical and Applied Computer Science (TACS, 2009-2010)
- o IFAC Workshop on Networked Robotics (2009)

PROFESSIONAL MEMBERSHIPS

- IEEE Senior Member 2008– Present.
- Member of the Golden Key International Honor Society, 2010 – 2011.
- Member of the International Society of Automation (ISA), 2010 – Present.
- Listed in: Who’s Who in America, 2010, 2011, 2014, 2015.