

JEROME P. LYNCH, Ph.D.

Curriculum Vitae

Professor

Department of Civil and Environmental Engineering

Department of Electrical Engineering and Computer Science

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EDUCATION:

STANFORD UNIVERSITY, Stanford, CA (1997-2003)

M.S. in Electrical Engineering - Controls and Signal Processing, June 2003

Ph.D. in Civil and Environmental Engineering - Structures, August 2002

M.S. in Civil and Environmental Engineering - Structures, August 1998

Ph.D. Dissertation: "Decentralization of Wireless Monitoring and Control Technologies for Smart Civil Structures" (Advisor: Professor Kincho H. Law, Civil and Environmental Engineering)

THE COOPER UNION, New York, NY (1993-1997)

B.E. in Civil and Environmental Engineering May 1997

Graduated *Summa cum Laude*

Awarded the *Hoffman Award* for top overall achievement in Civil Engineering

PROFESSIONAL EXPERIENCE:

- FACULTY, UNIVERSITY OF MICHIGAN, Ann Arbor, MI
 - Professor, Dept. of Civil and Environmental Engineering (July 2014 - present)*
 - Professor, Dept. of Electrical Eng. and Computer Science (by courtesy) (July 2014 - present)*
 - Associate Professor, Dept. of Civil and Environmental Engineering (July 2009 - June 2014)*
 - Associate Professor, Dept. of Electrical Eng. and Computer Science (July 2009 - June 2014)*
 - Assistant Professor, Dept. of Civil and Environmental Engineering (September 2003 - June 2009)*
 - Assistant Professor, Dept. of Electrical Eng. and Computer Science (Jan 2004 - June 2009)*
- CO-FOUNDER, CIVIONICS LLC, Ann Arbor, MI
 - Executive Vice-President (September 2009 - present)*
- ADVISOR, SKYSPECS LLC, Ann Arbor, MI
 - Member, Board of Advisors (January 2013 - present)*
- TECHNICAL ADVISOR, AUGMENT VENTURES, Ann Arbor, MI
 - Member, Board of Technical Advisors (June 2011 - present)*
- CO-FOUNDER, SENSAMETRICS INC, Palo Alto, CA
 - Chief Technology Officer (June 2001 - September 2003)*
- TECHNICAL REVIEWER, O'REILLY PUBLISHING CORPORATION, Boston, MA
 - Technical Book Division (January - May 2001)*
- AUTHOR, BROOKS & COLE PUBLISHING, Pacific Grove, CA
 - Mechanics of Materials Solution Manual, 5th Edition, with James Gere (January - July 2000)*
- CONSULTANT, SC SOLUTIONS INC, San Jose, CA
 - Embedded Systems/Controls Division (June - September 2000)*

- STRUCTURAL ENGINEER, WEIDLINGER ASSOCIATES, New York, NY
Applied Science Division (January - September 1997)

HONORS AND AWARDS:

- Walter L. Huber Civil Engineering Research Prize, American Society of Civil Engineers (2014)
The Huber Civil Engineering Research Prizes recognize members of ASCE who demonstrate notable achievements in research related to Civil Engineering. Cited for extraordinary achievement in the development of structural health monitoring technology for civil engineering systems.
- John F. Ullrich Education Excellence Award, College of Engineering, Univ. of Michigan (2013)
The purpose of the award is to recognize demonstrated sustained excellence in curricular development, graduate student supervision, the development of new courses, and bringing research into the classroom.
- EMI Leonardo Da Vinci Award, American Society of Civil Engineers (2012)
This award is to recognize outstanding young investigators early in their careers for promising ground-breaking developments in the field of Engineering Mechanics and Mechanical Sciences as relevant to Civil Engineering, understood in the broadest sense.
- Anne Voshel and Gerald Nudo CEE Faculty Scholar Award, University of Michigan (2010-2013)
This three year endowed award is granted to one junior to mid-career faculty member who has demonstrated outstanding achievement and promise in multiple dimensions of the Department of Civil and Environmental Engineering and the University of Michigan missions.
- Region 3 Outstanding Faculty Advisor Award, ASCE (2011)
The American Society of Civil Engineers (ASCE) Committee on Student Activities annually selects one faculty member from each region for the Outstanding Faculty Advisor Award. The award recognizes the commitment a faculty member has towards improving the ASCE student chapter and in mentoring students towards the pursuit of professional engineering career paths.
- Professor of the Year Award – ASCE Student Chapter, University of Michigan (2010)
Given annually by the American Society of Civil Engineers (ASCE) University of Michigan Student Chapter to one faculty member in recognition of his/her teaching performance in the classroom as well as contributions to the undergraduate and graduate program in Civil and Environmental Engineering.
- Faculty Achievement Award, Rackham School of Graduate Studies, Univ. of Michigan (2010)
Given annually by the Rackham School of Graduate Studies, these awards recognize faculty who have demonstrated substantive contributions to the university through significant achievements in scholarly research, excellence as a teacher and mentor, and for distinguished participation in service activities.
- Presidential Early Career Award for Scientists and Engineers (PECASE), White House Office of Science and Technology Policy (2009)
This Presidential award recognizes individuals with the extraordinary potential to catalyze scientific and technological advances. The award is highly competitive and is intended to recognize the most meritorious science and technology leaders amongst the early career award recipients.
- Brilliant 10 Award, Popular Science Magazine (2009)
Selected by the editors of Popular Science Magazine as one of ten researchers listed in the 2009 annual Brilliant 10 list of “young geniuses shaking up science.” Cited for significant contributions to the field of structural health monitoring for the safety of highway bridges.
- Structural Health Monitoring Person of the Year Award, International Workshop of Structural Health Monitoring, Stanford, CA (2009)
Selected by the editors of Structural Health Monitoring: An International Journal in recognition of outstanding contributions to the field of structural health monitoring that benefit society.
- Invited Speaker, National Academy of Engineering Frontiers of Engineering Symposium (2009)

Invited to provide the keynote presentation titled, "Opportunities for Ubiquitous Sensing for Resilient and Sustainable Infrastructure Systems." The Frontiers of Engineering Symposiums invite young outstanding engineers to discuss leading-edge research and technical work across a wide range of engineering fields.

- **Professor of the Year Award – ASCE Student Chapter, University of Michigan (2009)**
Given annually by the American Society of Civil Engineers (ASCE) University of Michigan Student Chapter to one faculty member in recognition of his/her teaching performance in the classroom as well as contributions to the undergraduate and graduate program in Civil and Environmental Engineering.
- **National Science Foundation CAREER Award (2009)**
This award is the National Science Foundation's most prestigious award in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research.
- **Department Award, Civil & Environmental Engineering, University of Michigan (2009)**
The Department Award is awarded annually by the College of Engineering to one member of each department to recognize outstanding achievements in research, teaching and service during the year.
- **Shah Family Innovation Prize, Earthquake Engineering Research Institute (EERI) (2009)**
This prize rewards younger professionals and academics for creativity, innovation and entrepreneurial spirit in the field of earthquake risk mitigation and management. The intent of the prize is to stimulate further creativity and leadership in the earthquake risk mitigation community and EERI.
- **1938E Award, College of Engineering, University of Michigan (2008)**
Presented annually to one Assistant Professor in recognition of being an outstanding teacher in both elementary and advanced courses, an outstanding counselor of students, a contributor to the educational growth of the College, and a teacher whose scholarly integrity pervades his/her service to the University and the profession of Engineering.
- **ONR Summer Faculty Fellowship (2008)**
Selected as a Faculty Fellow to conduct collaborative research with researchers from the Naval Surface Warfare Center (NSWC) Carderock Division on structural health monitoring of high-speed littoral ships.
- **Finalist, University of Michigan Workplace Leadership Award (2007)**
The Workplace Leadership Award is awarded annually by the Office of Human Resources to honor university staff members who have demonstrated outstanding leadership, vision, and initiative. Nominated by Ph.D. advisees.
- **Henry Russel Award, Rackham School of Graduate Studies, University of Michigan (2007)**
Conferred annually to recognize one mid-career faculty from the University of Michigan who has demonstrated an impressive record of accomplishment in research, scholarship and/or creativity, as well as their conspicuous ability as a teacher.
- **Office of Naval Research Young Investigator Award (2005)**
The Young Investigator Award is offered to early career investigators. The criteria for selection includes a creative and forward-thinking research proposal as well as significant previous research, publications, and professional activities. This award was one of 27 selected in 2005.
- **Professor of the Year Award – ASCE Student Chapter, University of Michigan (2005)**
Given annually by the American Society of Civil Engineers (ASCE) University of Michigan Student Chapter to one faculty member in recognition of his/her teaching performance in the classroom as well as contributions to the undergraduate and graduate program in Civil and Environmental Engineering.
- **ASCE ExCEED Teaching Scholarship (2004)**
Selected as a 2004 Excellence in Engineering Education (ExcEEd) Fellow. This award includes a scholarship to attend the Excellence in Engineering Education Teaching Workshop held annually at the United States Military Academy at West Point.
- **Japan Society for The Promotion of Science Short-Stay Fellowship (2003)**

This fellowship is awarded annually by the Japanese Society for the Promotion of Science to researchers from the United States to perform collaborative research in Japan. The fellowship was hosted by Prof. Yozo Fujino at the University of Tokyo's Bridge Engineering Laboratory.

- **National Science Foundation Engineering Summer Institute Award – Japan (1998)**
National Science Foundation annually selects graduate students in the United States to partake in a two-month summer research experience in Japan. Hosted by the Kobori Research Complex of the Kajima Corporation to collaborate on research aimed at advancing structural control systems for civil structures.
- **National Science and Engineering Graduate Fellowship (Department of Defense) (1997-2001)**
Each year, the Department of Defense awards the top-most graduate students in the United States with this three-year full-expense paid fellowship. The fellowship is awarded to students with exceptionally strong inter-disciplinary backgrounds.
- **Stanford Graduate Fellowship (1997-2001)**
Member of the first incoming class of the Stanford Graduate Fellowships Program in Science and Engineering. The program was initiated by Stanford University to recruit the very best graduate students to the university's science and engineering Ph.D. programs.
- **Association of Drill Shaft Contractors Graduate Student Scholarship (1997-1998)**
This national scholarship is annually awarded to the top-10 Civil Engineering graduate students in the United States.
- **ASCE Robert Ridgway Award in Civil Engineering (1996)**
The American Society of Civil Engineering Robert Ridgway Award recognizes the most outstanding young student members of the society.
- **New York Association of Consulting Engineers Scholarship (1996)**
This scholarship is awarded to the three top-most graduating undergraduate students in Mechanical, Electrical, Structural and Civil Engineering from undergraduate programs in the New York City tri-state area.
- **Tau Beta Pi – National Engineering Honor Society (Inducted 1996)**
- **Chi Epsilon – National Civil Engineering Honor Society (Inducted 1996)**

GRANTS AND CONTRACTS:

Federal Agencies

- **CPS: Synergy: Collaborative Research: Cyber-Physical System Frameworks for Observation and Control of Mobile Agents for Health Monitoring of Civil Infrastructure Systems, National Science Foundation, Arlington, VA**
PI: Jerome P. Lynch; Co-PI: Kincho H. Law (Stanford University), Mingyan Liu
January 2015 – December 2017
\$587,136
- **CyberSEES: TYPE 2: Sustainably Unlocking Energy from Municipal Solid Waste Using a Sensor-Driven Cyber-Infrastructure Framework, National Science Foundation, Arlington, VA**
PI: Dimitrios Zekkos; Co-PI: Jerome P. Lynch, Edwin Olson
September 2014 – August 2018
\$1,199,600
- **Cochlea-inspired Wireless Compressive Sensing Architectures for Real-time Feedback Control Applications, National Science Foundation, Arlington, VA**
PI: Jerome P. Lynch; Co-PI: Victoria Booth, Michael Flynn
September 2014 – August 2017
\$345,000

- Scalable and Autonomous Post-Event Subsurface Characterization from UAV-based Quantitative Surface Measurements, *National Science Foundation, Arlington, VA*
PI: Dimitrios Zekkos; Co-PI: Jerome P. Lynch, Vineet Kamat
August 2014 – July 2017
\$389,845
- Regularized Learning Enabled Monitoring and Control for Wind Power Systems, *National Science Foundation, Arlington, VA*
PI: Eunshin Byon; Co-PI: Jerome P. Lynch
May 2014 – April 2017
\$325,000
- Nano-Engineered Smart Tarmacs for Detecting Distributed Surface/Subsurface Pavement Damage, *Federal Aviation Administration (FAA), U.S. Department of Transportation (USDOT), Washington D. C.*
PI: Jerome P. Lynch
September 2013 – August 2016
\$151,634
- Data to Decision: Sensors, IT Infrastructure, and Numerical Models to Support Optimal Lifecycle Management of Naval Structures, *Naval Engineering Education Center (NEEC), Naval Surface Warfare Centers, Washington D. C.*
PI: Jerome P. Lynch; Co-PI: Matt Collette
October 2012 – September 2014
\$300,000
- State-Aware Reconfiguration and Control of Shipboard Plants based on Adaptive Pipeline Architectures in Wireless Sensor and Actuator Networks, *Office of Naval Research, Arlington, VA*
PI: Jerome P. Lynch
April 2012 – April 2014
\$ 198,057
- SBIR Phase I & IB: A Multifunctional Piezoelectric Smart Flooring System for Energy Efficient Control in Commercial Building Systems, *National Science Foundation, Arlington, VA*
PI: Andrew Zimmerman (Civionics LLC); Co-PI: Jerome P. Lynch (University of Michigan), Elizabeth Redmond (PowerLeap LLC)
October 2011 – December 2012
\$167,477
- Safety Pilot Model Deployment, *U.S. Department of Transportation, Washington, D. C.*
PI: James Sayer; Co-PI: John Woodrooffe, Peter Sweatman, John Sullivan, Ralph Robinson, David Leblanc, Debra Bezzina, Jerome P. Lynch
July 2011 – December 2013
\$ 17,333,519
- U.S.-Japan Workshop on Bio-Inspired Engineering of Next-Generation Sensors and Actuators, *National Science Foundation, Arlington, VA*
PI: Jerome P. Lynch
February 2011 – January 2012
\$34,000
- Life-cycle Performance Prediction Informed by Wireless Hull Monitoring, *Naval Engineering Education Center (NEEC), Naval Surface Warfare Centers, Washington D. C.*
PI: Matt Collette; Co-PI: Jerome P. Lynch
October 2010 – September 2012

\$319,910

- SBIR Phase I: A Hierarchical Wireless System for Distributed Strain Monitoring in Naval Structures, *Office of Naval Research, Arlington, VA*
PI: Andrew Zimmerman (Civionics LLC); Co-PI: Jerome P. Lynch (Civionics LLC), Dennis Sylvester (University of Michigan)
April 2010 – December 2010
\$69,171
- Model-based Structural Health Monitoring of Fatigue Damage Testbed Specimens, *Office of Naval Research, Arlington, VA*
PI: Jerome P. Lynch; Co-PI: Kincho H. Law (Stanford University)
March 2010 – December 2010
\$44,784
- CIF: Large: Sensing Sensors: Compressed Sampling with Co-Design of Hardware and Algorithms Across Multiple Layers in Wireless Sensor Networks, *National Science Foundation, Arlington, VA*
PI: Michael Flynn; Co-PI: Jerome P. Lynch, David Wentzloff, Mingyan Liu, Wayne Stark, Anna Gilbert
September 2009 – August 2014
\$2,845,386
- Adaptive Pipeline Architectures for Identification and Control of Interconnected Shipboard Plants Using Wireless Sensor Networks, *Office of Naval Research, Arlington, VA*
PI: Jerome P. Lynch
April 2009 – March 2012
\$542,054
- NIST-TIP: Cyber-Enabled Wireless Monitoring Systems for the Protection of Deteriorating National Infrastructure Systems, *National Institute of Standards and Technology, Gaithersburg, MD*
PI: Jerome P. Lynch; Co-PI: Victor C. Li, Vineet Kamat, Amit Ghosh, Atul Prakash, Mike Flynn, Mingyan Liu, Dennis Sylvester, Khalil Najafi, Amir Mortazawi, Tim Gorden, Steve Karamihas, Todd Anuskiewicz, Weidlinger Associates (NY,NY), Prospect Solutions (Albany, NY), SC Solutions (Santa Clara, CA), LFL Associates (Ann Arbor, MI), Monarch Antenna (Ann Arbor, MI)
February 2009 – January 2014
\$19,172,776
- CAREER: Nanoengineered Sensing Skins for Structural Health Monitoring - An Integrated Research and Education Career Experience, *National Science Foundation, Arlington, VA*
PI: Jerome P. Lynch
January 2009 – December 2013
\$462,611
- Probabilistic and Reliability-based Health Monitoring Strategies for High-speed Naval Vessels, *Office of Naval Research, Arlington, VA*
PI: Jerome P. Lynch; Co-PI: Kincho H. Law (Stanford University)
January 2009 – December 2009
\$57,990
- U.S.-Germany Planning Visit: Structural Health Monitoring Sensors for Offshore Wind Turbines, *National Science Foundation, Arlington, VA*
PI: Jerome P. Lynch (International Collaborator: Prof. R. Rolfes, Univ. of Hannover, Germany)
May 2008 – April 2009
\$7,578

- Wireless Demonstrator Package for Monitoring High-Speed Littoral Craft at Sea, *BMT Designers & Planners/Naval Surface Warfare Center (NSWC), Washington D.C.*
 PI: Jerome P. Lynch
 January 2008 – December 2008
 \$46,330
- Sensor Fusion for Comprehensive Health Monitoring of Complex Infrastructure Systems - an International Testbed, *National Science Foundation, Arlington, VA*
 PI: Jerome P. Lynch (International Collaborator: Prof. C.-B. Yun, KAIST, Korea)
 September 2007 – August 2010
 \$112,246
- NEESR SG: Damage Detection and Health Monitoring of Buried Pipelines after Seismic Ground Movement, *National Science Foundation, Arlington, VA*
 PI: Radoslaw Michalowski; Co-PI: Jerome P. Lynch, Russell Green, Jason Weiss, Aaron Bradshaw
 September 2007 – August 2011
 \$1,599,997
- CI-TEAM Implementation Project: Using Cyberinfrastructure to Develop Next Generation Civil Infrastructure, *National Science Foundation, Arlington, VA*
 PI: Tom Finholt; Co-PI: Jerome P. Lynch, Victor Li, Stephanie Teasley, Gary Olson
 October 2006 – September 2009
 \$760,000
- SENSORS: Carbon Nanotube-based Wireless Sensors for Strain and Corrosion Monitoring, *National Science Foundation, Arlington, VA*
 PI: Jerome P. Lynch, Co-PI: Nicholas Kotov
 September 2005 – August 2008
 \$340,100
- YOUNG INVESTIGATOR AWARD: Market-Based Resource Allocation in a Wirelessly Integrated Naval Engineering Plant, *Office of Naval Research, Arlington, VA*
 PI: Jerome P. Lynch
 June 2005 – May 2008
 \$295,729
- NEESR-II: Highly Damage Tolerant and Intelligent Slab-Column Frame Systems through Combination of Advanced Materials and Embedded Wireless Sensing, *National Science Foundation, Arlington, VA*
 PI: Gustavo Parra-Montesinos, Co-PI: Jerome P. Lynch, Carol Shield (Univ. of Minnesota)
 October 2004 – September 2007
 \$449,898
- NEESRgrid: A Distributed Virtual Lab for Advanced Earthquake Experimentation and Simulation, *National Science Foundation, Arlington, VA*
 PI: Jerome P. Lynch
 April 2004 – September 2004
 \$20,000

State Agencies

- Field Demonstration of Durable Link Slabs for Jointless Bridge Decks based on Strain-Hardening Cementitious Composites, *Michigan Department of Transportation, Lansing, MI*
 PI: Victor Li, Faculty Affiliate: Jerome P. Lynch
 April 2004 – December 2005
 \$65,000 (Affiliate Budget \$10,000),

International Contracts

- Nano-engineered Sensing Skins for Rapid Post-Event Health Monitoring of Steel Frame Structures, *Disaster Prevention Research Institute (DPRI), Kyoto University, Kyoto, Japan*
 PI: Jerome P. Lynch, Co-PI: Kincho H. Law (Stanford University), Masahiro Kurata (Kyoto Univ.)
 April 2013 – March 2015
 ¥2,400,000
- Stabilizing the Vibration of Large Bridges by a Bio-inspired Sensing and a Bio-actuated Response System, *National Research Foundation of Korea (NRF), Seoul, Korea*
 PI: Jerome P. Lynch
 September 2011 – August 2014
 \$103,414
- Wireless Sensors for Structural Health Monitoring of Tunnels and Shafts, *National Kaohsiung University of Applied Sciences, Kaohsiung, Taiwan*
 PI: Jerome P. Lynch
 July 2010 – December 2010
 \$3,000
- Wireless Monitoring for Health Assessment of Long-Span Bridges in Harsh Coastal Environments, *Xiamen University, Xiamen, Fujian, China*
 PI: Jerome P. Lynch (International Collaborator: Prof. Ying Lie, Xiamen University, China)
 September 2006 – December 2008
 \$4,050
- Field Validation of Wireless Structural Monitoring Systems on European Highway Bridges, *Structural Assessment, Monitoring and Control Network (SAMCO), European Union & Vienna Consulting Engineers (VCE), Vienna, Austria*
 PI: Jerome P. Lynch
 March 2006 – December 2007
 \$3,000
- Extensions of Wireless Sensing Systems for Real-time Feedback Control of Civil Structures, *National Center for Earthquake Engineering Research & National Taiwan University, Taiwan*
 PI: Jerome P. Lynch (International Collaborator: Prof. C. H. Loh, National Taiwan Univ., Taiwan)
 December 2004 – December 2010
 \$8,500

University of Michigan

- Civil Engineering Curricula for the 3rd Century: Experience-based Learning of Sensors for Intelligent Infrastructure Systems, *Office of the Provost, University of Michigan, Ann Arbor, MI*
 PI: Jerome P. Lynch, Co-PI: Branko Kerkez
 May 2013 – August 2014
 \$25,000
- Integrated Responsive Building Envelopes, *Office of Vice President of Research (OVPR), University of Michigan, Ann Arbor, MI*
 PI: Jerome P. Lynch, Co-PI: Geoff Thun, Victor Li, Becky Peterson, Aline Cotel, Lars Junghans, Jean Wineman, Kathy Velikov
 September 2012 – August 2014
 \$535,731

- Structural Health Monitoring of Complex Off-Shore Wind Turbine Systems, *Office of the Vice-President for Research (OVPR) Faculty Grant, University of Michigan, Ann Arbor, MI*
PI: Jerome Peter Lynch, Co-PI: Carlos Cesnik
May 2008 – April 2009
\$10,450
- Carbon Nanotube Sensing Skins for Monitoring Physical Systems Exposed to Harsh Loading Conditions: Validation and Prototype Development, *Office of Technology Transfer GAP Funding, University of Michigan, Ann Arbor, MI*
PI: Jerome P. Lynch, Co-PI: Nicholas Kotov
January 2008 – December 2008
\$44,524
- Wireless Sensor Networks for Reusable Automated Industrial Applications, *Office of Technology Transfer GAP Funding, University of Michigan, Ann Arbor, MI*
PI: Jerome P. Lynch
January 2008 – December 2008
\$10,704
- Design of a Low-Power Wireless Sensor Testbed Employing IEEE 802.15.4 Wireless Connectivity, *Wireless Integrated Microsystems Engineering Research Center, University of Michigan, Ann Arbor, MI*
Core Faculty Member: Jerome Peter Lynch
January 2005 – August 2010
\$143,172
- Long-Term Field Study of Large-Scale Wireless Structural Monitoring Systems, *Rackham Grant and Fellowship Program, University of Michigan, Ann Arbor, MI*
PI: Jerome Peter Lynch
January 2005 – December 2005
\$15,000

PUBLICATIONS*:

Books

1. Wang, M., Lynch, J. P., and Sohn, H. (eds) (2014). *Sensor Technologies for Civil Infrastructures: Performance Assessment & Health Monitoring*, Woodhead Publishing, London.

Book Chapters

1. Wang, M., Lynch, J. P. and Sohn, H. (2014). "Introduction," in *Sensor Technologies for Civil Infrastructures: Performance Assessment & Health Monitoring* (ed. Ming Wang, Jerome P. Lynch, and Hoon Sohn), Woodhead Publishing, London, pp. 1-22.
2. Peckens, C., Kane, M. B., Zhang, Y. and Lynch, J. P. (2014). "Introduction to Wireless Structural Monitoring Systems: Permanent Installation in Infrastructure Systems," in *Sensor Technologies for Civil Infrastructures: Performance Assessment & Health Monitoring* (ed. Ming Wang, Jerome P. Lynch, and Hoon Sohn), Volume 1, Woodhead Publishing, London, pp. 480-509.
3. Kane, M. B., Peckens, C. and Lynch, J. P. (2014). "Introduction to Wireless Structural Monitoring Systems: Design and Selection," in *Sensor Technologies for Civil Infrastructures: Performance Assessment & Health Monitoring* (ed. Ming Wang, Jerome P. Lynch, and Hoon Sohn), Volume 1, Woodhead Publishing, London, pp. 446-479.

* Note: Underlined names denote B.S., M.S. and Ph.D. student advisees; double underlined names denote post-docs

4. Li, M., Lin, V., Lynch, J. P. and Li, V. C. (2013) "Carbon Black Engineered Cementitious Composites - Mechanical and Electrical Characterization," in *SP-292 Structural Health Monitoring Technologies* (ed. Branko Glisic), American Concrete Institute (ACI), Farmington Hills, MI, pp. 1-16.
5. Loh, K. J., Liu, Y. and Lynch, J. P. (2013), "Layer-by-Layer Carbon Nanotube Thin Films for Multi-Modal and Passive Wireless Sensing," in *Fundamentals and Applications of Wireless Chemical and Biological Sensors* (ed. Radislav Potyrailo, Keat Ghee Ong, Donald Malocha, and Emad Andarawis), Springer, Berlin, *in press*.
6. Zhang, Y. and Lynch, J. P. (2013). "Chapter 8: Long-Term Modal Analysis of the New Carquinez Long-Span Suspension Bridge," in *Topics in Dynamics of Bridges, Volume 3* (ed. Alvaro Cunha), Springer, Berlin, pp. 85-94.
7. Kurata, M., Lynch, J. P., Law, K. H. and Salvino, L. (2012). "Chapter 9: Bayesian Model Updating Approach for Systematic Damage Detection of Plate-Type Structures," in *Topics in Model Validation and Uncertainty Quantification, Volume 4* (ed. T. Simmermacher, S. Cogan, L. G. Horta, R. Barthorpe), Springer, Berlin, pp. 85-94.
8. Swartz, R. A. and Lynch, J. P. (2009). "Wireless Sensors and Networks," in *Structural Health Monitoring of Civil Infrastructure* (ed. Vistasp M. Karbhari and Farhad Ansari), Woodhead, England, pp. 72-112.
9. Loh, K. J. and Lynch, J. P. (2009). "Miniaturized Sensors Employing Micro- and Nanotechnologies," in the *Encyclopedia of Structural Health Monitoring* (ed. Christian Boller, Fu-Kuo Chang and Yozo Fujino), Wiley, England, pp. 1211-1224.
10. Hou, T. C. and Lynch, J. P. (2008). "Spatial Imaging of Cracks in Fiber Reinforced Cementitious Composites by EIT," in *SP-252 Health Monitoring Systems & Sensors for Assessing Concrete* (ed. John Popovics), American Concrete Institute (ACI), Farmington Hills, MI.
11. Wang, Y., Lynch, J. P. and Law, K. H. (2006). "Wireless Sensing, Actuation and Control - with Applications to Civil Structures," in *Intelligent Computing in Engineering and Architecture* (ed. Ian F. C. Smith), Springer, Berlin, Germany, pp. 670-689.

Journal Publications

1. Lo, C., Y. Bai, Liu, M. Y., and Lynch, J. P. (2014). "Efficient Sensor Fault Detection Using Group Testing," submitted to *ACM Transactions on Sensor Networks*, ACM (under review).
2. Lo, C., Lynch, J. P., and Liu, M. Y. (2014). "Distributed Model-based Nonlinear Sensor Fault Diagnosis in Wireless Sensor Networks," submitted to *Mechanical Systems and Signal Processing*, Elsevier (under review).
3. Pour-Ghaz, M., Wilson, J., Nadukuru, S. S., Kim, J., O'Connor, S., Byrne, E. M., Sigurdardottir, D. H., Yao, Y., Michalowski, R. L., Lynch, J. P., Green, R. A., Bradshaw, A. S., Glisic, B., and Weiss, W. J. (2014). "Performance of Plain and Fiber Reinforced Segmental Concrete Pipelines Subjected to Concentrated Transverse Permanent Ground Displacement," submitted to *Materials and Structures Journal*, RILEM (under review).
4. Devki, D., Miller, M., Lynch, J. P., and Li, V. (2014). "Development of Thermally Adaptive Engineered Cementitious Composite for Passive Heat Storage" accepted and to appear in *Construction and Building Materials*, Elsevier.
5. Peckens, C., Lynch, J. P., and Heo, G. (2014). "Resource Efficient Wireless Sensor Network Architecture based on Bio-mimicry of the Mammalian Auditory System" accepted and to appear in *Journal of Intelligent Material Systems and Structures*, Sage.
6. McCullagh, J. J., Peterson, R. L., Galchev, T. V., Gordenker, R., Zhang, Y., Lynch, J. P., and Najafi, K. (2014). "Long-term Testing of a Vibration Harvesting System for the Structural Health Monitoring of Bridges," *Sensors and Actuators A: Physical*, Elsevier, 217(2014): 139-150.

7. Mosavi, A., Sedarat, H., O'Connor, S. M., Emami-Naeini, A., Lynch, J. P. (2014). "Calibrating a High-Fidelity Finite Element Model of a Highway Bridge using a Multi-Variable Sensitivity-based Optimization Approach," *Structure and Infrastructure Engineering*, Taylor & Francis, 10(5): 627-642.
8. O'Connor, S., Lynch, J. P., and Gilbert, A. (2014). "Modal extraction using compressed sensing for energy efficiency in a wireless sensor network," *Smart Materials and Structures*, IOP, 23(8): 085014.
9. Ranade, R., Zhang, J., Lynch, J. P., and Li, V. C. (2014). "Influence of Micro-Cracking on the Composite Resistivity of Engineered Cementitious Composites," *Cement and Concrete Research*, Elsevier, 58(4):1-12.
10. Peckens, C., and Lynch, J. P. (2013). "Utilizing the Cochlea as a Bio-inspired Compressive Sensing Technique," *Smart Materials and Structures*, IOP, 22(10): 105027.
11. Kurata, M., Kim, J., Lynch, J. P., van der Linden, G. W., Seddat, H., Thometz, E., Hipley, P., Sheng, L. H (2013). "Internet-enabled Wireless Structural Monitoring Systems: Development and Permanent Deployment at the New Carquinez Suspension Bridge," *Journal of Structural Engineering*, ASCE, 139(10): 1688-1702.
12. Zimmerman, A. T., Lynch, J. P., and Ferrese, F. (2013). "Market-Based Resource Allocation for Distributed Data Processing in Wireless Sensor Networks," *Transactions on Embedded Computing Systems*, ACM, 12(3): 84:1-28.
13. Lo, C., Lynch, J. P., Liu, M. Y. (2012). "Distributed Reference-free Fault Detection Method for Autonomous Wireless Sensor Networks," *IEEE Sensors Journal*, IEEE, 13(5): 2009-2019.
14. Kim, J., and Lynch, J. P. (2012). "Subspace System Identification of Support Excited Structures - Part I: Theory and Black-box System Identification," *Earthquake Engineering and Structural Dynamics*, Wiley, 41(15): 2235-2251.
15. Kim, J., and Lynch, J. P. (2012). "Subspace System Identification of Support Excited Structures - Part II: Grey-box Interpretations and Damage Detection," *Earthquake Engineering and Structural Dynamics*, Wiley, 41(15): 2253-2271.
16. Kim, J., and Lynch, J. P. (2012). "Autonomous Decentralized System Identification by Markov Parameter Estimation using Distributed Smart Wireless Sensor Networks," *Journal of Engineering Mechanics*, ASCE, 138(5): 478-490.
17. Kim, J., Nadukuru, S. S., Pour-Ghaz, M., Lynch, J. P., Michalowski, R. L., Bradshaw, A. S., Green, R. A., and Weiss, W. J. (2012). "Damage Detection And Health Monitoring Of Buried Concrete Pipelines - A Large-Scale Experiment," *Journal of Pipeline Systems Engineering and Practice*, ASCE, 3(1): 8-16.
18. Swartz, R. A., Zimmerman, A. T., Lynch, J. P., Rosario, J., Brady, T., Salvino, L., and Law, K. H. (2012). "Hybrid Wireless Hull Monitoring System for Naval Combat Vessels," *Structure and Infrastructure Engineering*, Taylor & Francis Group, 8(7): 621-638.
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Abstracts

1. Lynch, J. P. (2014). "Cyber-enabled Wireless Monitoring Systems for Critical Infrastructure Systems: a Retrospective Summary," *10th International Workshop on Advanced Smart Materials and Smart Structures Technologies*, Taipei, Taiwan.
2. Peckens, C. and Lynch, J. P. (2013). "Utilizing the Cochlea for Bio-Inspired Compressive Sensing in Resource Constrained Networks," *Engineering Mechanics 2013*, Evanston, IL.
3. O'Connor, S., Lynch, J. P. and Gilbert, A. C. (2013). "Compressive Sampling in the Narada Wireless Sensor for Resource Efficiency in the Telegraph Structural Health Monitoring System," *Engineering Mechanics 2013*, Evanston, IL.
4. Lo, C., Liu, M. and Lynch, J. P. (2013). "Distributive Model-based Sensor Fault Diagnosis in Wireless Sensor Networks," *9th IEEE International Conference on Distributed Computing in Sensor Systems*, Boston, MA.
5. Lo, C., Lynch, J. P. and Liu, M. (2012). "Pair-wise Reference-free Fault Detection in Wireless Sensor Networks," *11th ACM/IEEE Conference on Information Processing in Sensor Networks*, Beijing, China.
6. Peckens, C. and Lynch, J. P. (2012). "Deepening Math and Science Skills in Middle School Students through Civil Engineering-based Learning Modules," *6th Annual Research and Scholarship in Engineering Education Poster Fair*, University of Michigan, Ann Arbor.

7. Peckens, C., Lynch, J. P. and Pei, J. S. (2010). "Volterra/Weiner Neural Network on Embedded Microprocessors," *Engineering Mechanics 2010*, Los Angeles, CA.
8. Kurata, M., Kim, J., Lynch, J. P., Law, K. H. and Salvino, L. W. (2010). "Fatigue Health Monitoring of Hull Structures using a Model-based Damage Detection Technique," *Engineering Mechanics 2010*, Los Angeles, CA.
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10. Pour-Ghaz, M., Weiss, W. J., Michalowski, R. L., Green, R. A., Lynch, J. P. and Bradshaw, A. (2009). "Application of Electrically Conductive Concrete and Adhesives for Damage Detection in Concrete Pipelines," *7th NEES Annual Meeting*, Honolulu, Hawaii.
11. Michalowski, R. L., Green, R. A., Lynch, J. P., Weiss, W. J. and Bradshaw, A. (2008). "Damage Detection and Health Monitoring of Buried Pipelines after Earthquake-Induced Ground Movement," *6th NEES Annual Meeting*, Portland, Oregon.
12. Zimmerman, A. and Lynch, J. P. (2007). "Distributed Model Updating using Wireless Sensors Integrated in NEES" *5th NEES Annual Meeting*, Snow Bird, Utah.
13. Parra-Montesinos, G., Lynch, J. P., Shield, C., Cheng, M. Y., Hou, T. C., Zimmerman, A. and Kamat, V. (2006). "Highly Damage-Tolerant and Intelligent Slab-Column Frame Systems through Combination of Advanced Materials and Embedded Wireless Sensing," *4th NEES Annual Meeting*, Washington D. C.
14. Jirathanathaworn, T., Saftner, D., Ngai, J., Lynch, J. P. and Green, R. (2006). "Instrumentation for the NEESR Sand Aging Field Experiment," *4th NEES Annual Meeting*, Washington D. C.
15. Lynch, J. P. (2003). "Wireless Structural Sensing for Health Monitoring and Control Applications," *Annual American Geological Union (AGU) Fall Meeting*, San Francisco, CA.
16. Lynch, J. P., Sohn, H. and Law, K. H. (1999). "The Development and Application of a Damage Detection Toolbox for MATLAB," *5th US National Congress on Computational Mechanics*, Boulder, CO.

PATENTS AND TECHNOLOGY DISCLOSURES:

- United States Patent 8,159,235, "Electrical Impedance Tomography of Nanoengineered Thin Films - Novel Methodology and Apparatus for Thin Film Quality Control and Two-Dimensional Spatial Sensing," April 2012 (Authors: Lynch, J. P., Hou, T. C., Kotov, N., Wong Shi Kam, N., Loh, K. J.).
- United States Patent 8,451,124, "Passive Wireless Readout Mechanisms for Nanocomposite Thin Film Sensors," May 2013 (Authors: Lynch, J. P., Loh, K. J., Kotov, N.)
- United States Provisional Patent (converted July 2011), "Portable, Wireless Multi-Channel Impedance Analyzer," (Authors: Lynch, J. P., Jarva, E., Pyo, S.)

TEACHING EXPERIENCE:

- TENURED FACULTY, UNIVERSITY OF MICHIGAN, Ann Arbor, MI
Department of Civil and Environmental Engineering (July 2003 - present)
Department of Electrical Engineering and Computer Science (by courtesy) (July 2003 - present)
 Responsible for teaching graduate and undergraduate courses in the area of structural engineering and structural dynamics, advising graduate and undergraduate students and participating in departmental, college, and university curricula activities.

- INVITED LECTURER, DEPARTMENT OF MECHANICAL AND STRUCTURAL ENGINEERING, UNIVERSITY OF TRENTO, Trento, Italy (October 2007)

Invited by the Faculty of the Department of Mechanical and Structural Engineering at the University of Trento to offer a one-week intensive short-course to graduate students titled, "Smart Structure Technologies." Topics covered in this course include MEMS sensors, wireless sensors, distributed in-network data processing, real-time control, active sensing, nanotechnology and multifunctional materials.

- LECTURER, INTERNATIONAL SUMMER SCHOOL IN SMART MATERIALS AND STRUCTURES: A CROSS-DISCIPLINARY PERSPECTIVE, UNIVERSITY OF TRENTO, Italy

Serve as an invited international lecturer to teach various technical sessions of this 5-day summer school for graduate students in the field of civil engineering and mechanical engineering. I teach sessions on long-term wireless monitoring studies of operational civil infrastructure systems and the fundamentals of micro- and nano-technologies for sensing.

Times Offered:

University of Trento, September 2012 (30 enrolled)

University of Trento, July 2013 (30 enrolled)

- LECTURER, STRUCTURAL HEALTH MONITORING USING STATISTICAL PATTERN RECOGNITION SHORT COURSE, LOS ALAMOS DYNAMICS, INC., Los Alamos, NM

Core organizer of this 3-day short course focused on the emerging field of structural health monitoring. Responsible for teaching sessions on wireless telemetry, embedded computing, and microelectromechanical system (MEMS) sensors and actuators.

Locations Offered:

Stanford University, September 2001 (15 enrolled)

University of California-San Diego, March 2002 (15 enrolled)

Stanford University, September 2003 (10 enrolled)

NASA Huntsville, February 2004 (15 enrolled)

Oakridge National Laboratory, September 2004 (15 enrolled)

Stanford University, September 2005 (10 enrolled)

Sandia National Laboratory, January 2006 (25 enrolled)

Boeing Corporation, St. Louis, October 2006 (5 enrolled)

Stanford University, September 2007 (15 enrolled)

University of Maryland, January 2009 (10 enrolled)

Stanford University, September 2009 (20 enrolled)

Stanford University, September 2011 (19 enrolled)

Stanford University, September 2013 (17 enrolled)

- INVITED LECTURER, LOS ALAMOS DYNAMIC SUMMER SCHOOL, Los Alamos National Laboratory, NM

Invited by Los Alamos National Laboratory to be a guest lecturer at the annual Los Alamos Dynamics Summer School. The summer school invites graduate students from the United States to attend an intensive 8-week research program in structural health monitoring and modal analysis. Lectures were provided in wireless telemetry and embedded data processing of sensor data.

Guest Lectures:

July 2004 – "Introduction to Wireless Sensing for Structural Health Monitoring"

July 2005 – "Wireless Sensors and Sensor Networks for Health Monitoring of Civil Structures"

July 2006 – "Wireless Sensors Applied to Complex Monitoring and Control Applications"

July 2007 – "Wireless Sensors for Structural Health Monitoring and Distributed Control"

July 2010 – "Health Monitoring and Control of Structures using Smart Structure Technology"

June 2012 – "Intelligent Wireless Monitoring Technologies for Structural Health Monitoring"

June 2013 – “Asynchronous Sampling for Compressive Sensing in Wireless Sensor Networks”

- FACULTY MENTOR, NATURAL HAZARDS MITIGATION IN JAPAN (NHMJ) PROGRAM, NATIONAL SCIENCE FOUNDATION, Japan (June 2005)

Selected by the National Science Foundation to serve as the faculty mentor of the NSF Natural Hazards Mitigation in Japan (NHMJ) Program. NHMJ is a two-week program where a group of 20 civil engineering graduate students travel to Japan for technical tours of various Japanese earthquake engineering and smart structure laboratories. Responsibilities included logistical planning with Japanese counterparts and introduction of the Japanese researchers to the students of the NHMJ Program.

- TEACHING ASSISTANT, DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING STANFORD UNIVERSITY, Stanford, CA

CE283 –*Structural Dynamics* (Fall 1998, Fall 1999)

Assisted Professor Kincho H. Law with his graduate level class on structural dynamics. Administered the class’s term project using ETABS to analyze the response of an 18 story steel structure during various earthquake loadings. Conducted numerous lectures on topics ranging from numerical integration techniques to the state-of-art practiced in structural control.

COURSES TAUGHT AT THE UNIVERSITY OF MICHIGAN:

Course #	Course Title	Acad Term	# Std	Q1*				Q2**			
				College Quartiles***			College Quartiles***				
				25%	50%	75%	25%	50%	75%		
CEE511	Dynamics of Structures	W04	15	4.7	4.52	4.18	3.89	4.8	4.75	4.35	3.96
CEE619	Adv. Dyn. & Smart Struct.	F04	12	4.8	4.58	4.25	4.00	5.0	4.75	4.43	4.10
CEE511	Dynamics of Structures	W05	12	3.9	4.56	4.21	3.90	4.4	4.79	4.38	3.96
CEE212	Solid and Structural Mech.	W05	48	4.5	4.21	3.91	3.50	4.8	4.50	4.08	3.68
CEE611	Earthquake Engineering	F05	11	4.8	4.58	4.25	4.00	4.9	4.74	4.50	4.00
CEE511	Dynamics of Structures	W06	21	4.7	4.50	4.25	4.00	5.0	4.75	4.39	4.00
CEE511	Dynamics of Structures	F06	11	4.8	4.64	4.32	4.08	5.0	4.78	4.50	4.14
CEE212	Solid and Structural Mech.	W07	78	4.6	4.14	3.91	3.65	4.9	4.36	4.00	3.68
CEE619	Adv. Dyn. & Smart Struct.	W07	10	4.7	4.61	4.25	4.00	4.9	4.75	4.38	4.00
CEE511	Dynamics of Structures	F07	21	4.8	4.64	4.25	3.96	4.8	4.78	4.50	4.00
CEE611	Earthquake Engineering	W08	11	4.8	4.67	4.32	4.00	4.8	4.80	4.50	4.08
CEE511	Dynamics of Structures	F08	22	4.0	4.50	4.13	3.75	4.8	4.79	4.50	4.00
CEE212	Solid and Structural Mech.	W09	51	4.6	4.54	4.13	3.79	4.9	4.80	4.50	4.00
CEE511	Dynamics of Structures	F09	15	4.9	4.58	4.17	3.83	4.9	4.80	4.50	4.00
CEE212	Solid and Structural Mech.	F09	49	4.4	4.58	4.17	3.83	4.9	4.80	4.50	4.00
CEE511	Dynamics of Structures	F10	17	5.0	4.60	4.19	3.83	5.0	4.80	4.50	4.00
CEE611	Earthquake Engineering	W11	21	4.3	4.58	4.29	4.07	4.6	4.75	4.50	4.20
CEE511	Dynamics of Structures	F12	32	4.9	4.75	4.42	4.08	5.0	4.83	4.67	4.25
CEE370	Sensors and Circuits	W13	9	4.9	4.75	4.20	3.90	5.0	4.83	4.63	4.00
CEE679	Infrastructure Systems Proj	W13	7	4.8	4.75	4.20	3.90	4.8	4.83	4.63	4.00
CEE511	Dynamics of Structures	F13	28	4.7	4.75	4.50	4.23	4.7	4.83	4.67	4.25
CEE370	Sensors and Circuits	W14	9	4.9	4.50	4.17	3.90	4.9	4.88	4.50	4.00
CEE501	Dynamical Infrast. Systems	F14	-	-	-	-	-	-	-	-	-

*Q1 – Overall, this was an excellent course (out of 5); **Q2 – Overall, the instructor was an excellent teacher (out of 5); ***College Quartiles are for corresponding semester and academic level

DOCTORAL COMMITTEES:**Chaired Doctoral Committees**

- Co-Chair, Ph.D. Committee, Dr. Yang Wang

"Wireless Sensing and Decentralized Control for Civil Structures: Theory and Implementation," August 2007, Department of Civil and Environmental Engineering, Stanford University (Co-Chair: K. H. Law)
Currently Assistant Professor, School of Civil and Environmental Engineering, Georgia Institute of Technology.

- Chair, Ph.D. Committee, Dr. Tsung-Chin Hou
"Wireless and Electromechanical Approaches for Strain Sensing and Crack Detection in Fiber Reinforced Cementitious Materials," September 2008, Department of Civil and Environmental Engineering, University of Michigan
Currently Assistant Professor, National Cheng Kung University, Tainan City, Taiwan.
- Chair, Ph.D. Committee, Dr. Kenneth J. Loh
"Development of Multifunctional Carbon Nanotube Nanocomposite Sensors for Structural Health Monitoring," October 2008, Department of Civil and Environmental Engineering, University of Michigan
Currently Assistant Professor, Department of Civil and Environmental Engineering, University of California Davis.
- Chair, Ph.D. Committee, Dr. Andrew Zimmerman
"Agent-Based Computational Architectures for Distributed Data Processing in Wireless Sensor Networks," December 2009, Department of Civil and Environmental Engineering, University of Michigan
Currently Chief Executive Officer, Civionics, LLC, Ann Arbor, MI.
- Chair, Ph.D. Committee, Dr. Raymond Andrew Swartz
"Collocation of Sensing, Computing, and Actuation in Low-Power Wireless Nodes for Smart Structure Applications in Civil and Mechanical Systems," December 2009, Department of Civil and Environmental Engineering, University of Michigan
Currently Assistant Professor, Michigan Technological University, Houghton, MI.
- Chair, Ph.D. Committee, Dr. Jun-Hee Kim
"System Identification of Civil Engineering Structures through Wireless Structural Monitoring and Subspace System Identification Methods," December 2010, Department of Civil and Environmental Engineering, University of Michigan
Currently Assistant Professor, Dankook University, Korea.
- Chair, Ph.D. Committee, Dr. Courtney Peckens
"Bio-Inspired Compressive Sensing based on Auditory Neural Circuits for Real-time Monitoring and Control of Civil Structures using Resource Constrained Sensor Networks," December 2013, Department of Civil and Environmental Engineering, University of Michigan
Currently Assistant Professor, Hope College, Holland, MI.
- Chair, Ph.D. Committee, Dr. Michael Kane
"Wirelessly Enabled Control of Cyber-Physical Infrastructure with Applications to Hydronic Systems," January 2014, Department of Civil and Environmental Engineering, University of Michigan
Currently Fellow, ARPA-e.
- Co-Chair, Ph.D. Committee, Dr. Chun Lo
"Efficient Sensor Fault Diagnosis in Wireless Sensor Networks," April 2014, Department of Electrical Engineering and Computer Science, University of Michigan (Co-Chair: M. Liu)
Currently Research Engineer, Microstrategy, Inc.
- Chair, Ph.D. Committee, Ms. Yilan Zhang, Ph.D. Candidate
Department of Civil and Environmental Engineering, University of Michigan
- Chair, Ph.D. Committee, Mr. Sean O'Connor, Ph.D. Pre-candidate
Department of Civil and Environmental Engineering, University of Michigan
- Chair, Ph.D. Committee, Mr. Nephi Johnson, Ph.D. Pre-candidate
Department of Civil and Environmental Engineering, University of Michigan
- Chair, Ph.D. Committee, Mr. Andrew Burton, Ph.D. Pre-candidate

Department of Civil and Environmental Engineering, University of Michigan

- Chair, Ph.D. Committee, Mr. Mitsuhiro Hirose, Ph.D. Pre-candidate
Department of Civil and Environmental Engineering, University of Michigan

Doctoral Committee Membership

- Member, Ph.D. Committee, Dr. Shuxin Wang
"Micromechanics-based Matrix Design for Engineered Cementitious Composites," Department of Civil and Environmental Engineering, University of Michigan, April 2005
- Member, Ph.D. Committee, Dr. John Norton
"Financial and Technical Feasibility of Distributed Advanced Technology Water Treatment Systems," Department of Civil and Environmental Engineering, University of Michigan, February 2006
- Member, Ph.D. Committee, Dr. Joseph A. Potkay
"A Low Power Pressure- and Temperature-Programmed Separation System for a Micro Gas Chromatograph," Department of Electrical Engineering and Computer Science, University of Michigan, September 2006
- Member, Ph.D. Committee, Dr. Shunzhi Qian
"Influence of Concrete Material Ductility on the Behavior of High Stress Concentration Zones," Department of Civil and Environmental Engineering, University of Michigan, April 2007
- Member, Ph.D. Committee, Dr. Ajay Raghavan
"Guided-Wave Structural Health Monitoring," Department of Aerospace Engineering, University of Michigan, July 2007
- Member, Ph.D. Committee, Dr. En-Hua Yang
"Designing Added Functions in Engineered Cementitious Composites," Department of Civil and Environmental Engineering, University of Michigan, December 2007
- Member, Ph.D. Committee, Dr. Ivan Bogue
"Digitally Assisted ADCs," Department of Electrical Engineering and Computer Science, University of Michigan, December 2007
- Member, Ph.D. Committee, Dr. Mark Ferriss
"Fractional-N Synthesizer Architectures with Digital Phase Detection," Department of Electrical Engineering and Computer Science, University of Michigan, May 2008
- Member, Ph.D. Committee, Dr. Jongwon Lee,
"Engineering Characterization of Earthquake Ground Motions," Department of Civil and Environmental Engineering, University of Michigan, January 2009
- Member, Ph.D. Committee, Dr. Mo Li
"Multi-scale Design for Durable Repair of Concrete Structures," Department of Civil and Environmental Engineering, University of Michigan, September 2009
- Member, Ph.D. Committee, Dr. Ken Salas
"Directional Transduction for Guided Wave Structural Health Monitoring," Department of Aerospace Engineering, University of Michigan, September 2009
- Member, Ph.D. Committee, Dr. Chun Chieh Lee
"Improving Accuracy and Energy Efficiency of Pipeline Analog to Digital Converters," Department of Electrical Engineering and Computer Science, University of Michigan, December 2009
- Member, Ph.D. Committee, Dr. Girish Krishnan
"An Intrinsic and Geometric Framework for Synthesis and Analysis of Distributed Compliant Mechanisms," Department of Mechanical Engineering, University of Michigan, December 2010
- Member, Ph.D. Committee, Dr. Jacquelyn Vitaz

- "Enhanced Discrimination Techniques for Radar-Based On-Metal Identification Tags," Department of Electrical Engineering and Computer Science, University of Michigan, December 2010*
- Member, Ph.D. Committee, Dr. Prashant Singh
"NBTI and Gate-Oxide Degradation Sensing and Management in VLSI Circuit," Department of Electrical Engineering and Computer Science, University of Michigan, April 2011
 - Member, Ph.D. Committee, Dr. Gregory Chen
"Power Management and SRAM for Energy-Autonomous and Low-Power Systems," Department of Electrical Engineering and Computer Science, University of Michigan, April 2011
 - Member, Ph.D. Committee, Dr. David Saftner
"Time-Dependent Strength Gain in Recently Distributed Granular Materials," Department of Civil and Environmental Engineering, University of Michigan, May 2011
 - Member, Ph.D. Committee, Dr. Morteza Nick
"New Q-Enhanced Planar Resonators for Low Phase-Noise Radio Frequency Oscillators," Department of Electrical Engineering and Computer Science, University of Michigan, June 2011
 - Member, Ph.D. Committee, Dr. Lan Bai
"Simplify Design of Wireless Sensor Networks with Programming Languages, Compilers, and Synthesis," Department of Electrical Engineering and Computer Science, University of Michigan, June 2011
 - Member, Ph.D. Committee, Dr. Danial Ehyaie
"New Approaches to the Design of Phased Array," Department of Electrical Engineering and Computer Science, University of Michigan, July 2011
 - Member, Ph.D. Committee, Dr. Wei-Hsiang Ma
"Performance-Driven Energy-Efficient VLSI," Department of Electrical Engineering and Computer Science, University of Michigan, August 2011
 - Member, Ph.D. Committee, Dr. Stephen Zerbst
"Global Approach for Early Damage Detection on Rotor Blades of Wind Energy Converters," Institut für Statik und Dynamik, Leibniz Universität Hannover, Germany, August 2011
 - Member, Ph.D. Committee, Dr. Yoonmyung Lee
"Ultra-Low Power Circuit Design for Cubic-Millimeter Wireless Sensor Platform," Department of Electrical Engineering and Computer Science, University of Michigan, December 2011
 - Member, Ph.D. Committee, Dr. Li Li
"Fully Integrated CMOS Phased-Array PLL Transmitters," Department of Electrical Engineering and Computer Science, University of Michigan, May 2012
 - Member, Ph.D. Committee, Dr. Hyungil Chae
"Low Power Continuous-time Bandpass Sigma-Delta Modulators," Department of Electrical Engineering and Computer Science, University of Michigan, November 2012
 - Member, Ph.D. Committee, Dr. Seunghyun Oh
"Energy-efficient Reactive Radio Design in Body Area Networks," Department of Electrical Engineering and Computer Science, University of Michigan, January 2013
 - Member, Ph.D. Committee, Dr. Manu Akula
"Real-Time Context-Aware Computing with Applications in Civil Infrastructure Systems," Department of Civil and Environmental Engineering, University of Michigan, May 2013
 - Member, Ph.D. Committee, Dr. Matt Fojtik
"Architecture Independent Timing Speculation Techniques in VLSI Circuits," Department of Electrical Engineering and Computer Science, University of Michigan, October 2013
 - Member, Ph.D. Committee, Dr. Waleed Alomar
"Compact Power Amplifiers Using Circuit Level and Spatial Power Combining Techniques," Department of Electrical Engineering and Computer Science, University of Michigan, December 2013

- Member, Ph.D. Committee, Dr. Victor Lee
"Switchable and Tunable Ferroelectric Devices for Adaptive and Reconfigurable RF Circuits," Department of Electrical Engineering and Computer Science, University of Michigan, December 2013
- Member, Ph.D. Committee, Dr. Seyit Sis
"Ferroelectric-on-Silicon Switchable Bulk Acoustic Wave Resonators and Filters for RF Applications," Department of Electrical Engineering and Computer Science, University of Michigan, December 2013
- Member, Ph.D. Committee, Dr. James McCullagh
"Power Conversion Circuits for Low Power, Low Voltage and Non Periodic Vibration Harvester Outputs," Department of Electrical Engineering and Computer Science, University of Michigan, January 2014
- Member, Ph.D. Committee, Dr. Ravi Ranade
"Advanced Cementitious Composites Development for Resilient and Sustainable Infrastructure," Department of Civil and Environmental Engineering, University of Michigan, January 2014
- Member, Ph.D. Committee, Dr. Jiandao Zhu
"Life Cycle Fatigue Management for High-Speed Vessel Using Bayesian Updating Approaches," Department of Naval Architecture and Marine Engineering, University of Michigan, January 2014
- Member, Ph.D. Committee, Dr. Kalyan Nadella
"Numerical Simulation of Guided Wave Propagation in Thin Walled Composite Structures," Department of Aerospace Engineering, University of Michigan, March 2014
- Member, Ph.D. Committee, Dr. Matthew Obenchain
"Guided Wave Propagation and Damage Interaction in Isotropic and Composite Structures," Department of Aerospace Engineering, University of Michigan, July 2014
- Member, Ph.D. Committee, Dr. Siddharth Gaba
"Resistive-RAM for Data Storage Applications," Department of Electrical Engineering and Computer Science, University of Michigan, August 2014
- Member, Ph.D. Committee, Ms. Julie Fogarty, Ph.D. Candidate
Department of Civil and Environmental Engineering, University of Michigan
- Member, Ph.D. Committee, Mr. Choong-Ho Rhee, Ph.D. Candidate
Department of Mechanical Engineering, University of Michigan
- Member, Ph.D. Committee, Ms. Qian (Maple) Zhang, Ph.D. Candidate
Department of Civil and Environmental Engineering, University of Michigan
- Member, Ph.D. Committee, Ms. Emily Herbert, Ph.D. Candidate
Department of Civil and Environmental Engineering, University of Michigan
- Member, Ph.D. Committee, Mr. Khaled Aljanaideh, Ph.D. Candidate
Department of Aerospace Engineering, University of Michigan
- Member, Ph.D. Committee, Mr. Tyler Tallman, Ph.D. Candidate
Department of Mechanical Engineering, University of Michigan
- Member, Ph.D. Committee, Ms. Hua Cai, Ph.D. Candidate
School of Natural Resources and Environment, University of Michigan
- Member, Ph.D. Committee, Mr. Mohammad Ghahramani, Ph.D. Candidate
Department of Electrical Engineering and Computer Science, University of Michigan
- Member, Ph.D. Committee, Mr. Seungku Lee, Ph.D. Candidate
Department of Electrical Engineering and Computer Science, University of Michigan

UNIVERSITY OF MICHIGAN SERVICE:

University Level

- Member, Michigan Mobility Transformation Center (MTC) Faculty Council
June 2013 - Present
- Member, Faculty Recognition Awards Committee, Rackham Graduate School
September 2011 – June 2014
- Member, Michigan Mobility Transformation Initiative Steering Committee
September 2012 – June 2013
- Member, Strategic Discussion Group, Office of the Provost
January 2011

College of Engineering

- Member, Faculty Search Committee, ISD Systems Cluster
February 2014 – Present
- Member, Faculty Steering Committee for the Rackham Certificate in Engineering Education
October 2013 – Present
- Member, Research Advisory Committee
September 2012 – Present
- Leader, Built Environment Sensing Thrust, WIMS2 Research Center
September 2011 – Present
- Member, Master’s Fellowship Faculty Selection Committee
January 2014 – March 2014
- Member, Faculty Search Committee, Autonomous Transportation Systems
September 2013 – May 2014
- Member, Lurie Nanofabrication Facility (LNF) Internal Review Committee
February 2013 – August 2013
- Member, Reappointment Casebook Committee, Prof. Matthew Collette (NA&ME)
December 2012 – April 2013
- Member, Program Working Group, M. Eng. in Systems Engineering
September 2012 – December 2013
- Chair, Faculty Search Committee, Sustainable Transportation
September 2012 – May 2013
- Member, Civil & Environmental Engineering Chair Search Committee
September 2011 – May 2012
- Member, Electrical Engineering Internal Review Committee
September 2011 – February 2013
- Member, Honors and Awards Committee
September 2010 – August 2012
- Member, Center for Research on Learning and Teaching North (CRLT North) Advisory Board
January 2010 – August 2013
- Member, Martin Luther King (MLK) Day Committee
September 2008 – September 2010
- Member, Research Strategy Committee
January 2007 – May 2007
- Member, Civil & Environmental Engineering Chair Search Committee
February 2006 – May 2007

Department of Civil and Environmental Engineering

- Chair, Promotion (to Full) Casebook Committee, Prof. Vineet Kamat (CEE)
June 2014 – Present
- Member, Faculty Search Committee, Transportation Engineering
June 2014 – Present
- Chair, Strategic Implementation Committee
September 2013 – Present
- Member, Department Executive Committee
September 2013 – Present
- Member, External Relations Committee
September 2012 – Present
- Founder and Leader, Infrastructure Systems Graduate Program
September 2011 – Present
- Chair, Tenure Casebook Committee, Prof. Jeffrey Scruggs (CEE)
June 2013 – May 2014
- Chair, Space/Facilities Planning Committee
September 2012 – May 2013
- Member, Strategic Plan Implementation Committee
September 2010 – August 2011
- Chair, Faculty Search Committee, Sustainable and Reliable Systems
May 2010 – April 2011
- Co-Chair, Faculty Search Committee, Construction Eng. and Management
May 2009 – May 2010
- Member, Strategic Planning Committee
May 2009 – August 2010
- Member, Strategic Choice Committee – Research
January 2009 – April 2009
- Advisor, University of Michigan ASCE Student Chapter
July 2008 – August 2013
- Coordinator, M.S. Admissions for Structural Engineering
July 2008-April 2011
- Member, Mentoring Program Review
July 2008 – August 2009
- Member, Research Strategy Committee
January 2007 – May 2007
- Member, Curriculum Committee
September 2006 – August 2009
- Member, Faculty Search Committee, Structural Engineering
September 2006 – May 2007
- Advisor, University of Michigan ASCE Concrete Canoe Student Team
August 2006 – July 2008
- Member, Graduate Committee
January 2005 – September 2005
- Co-Organizer for CEE Department, University of Michigan Tech Day

October 2004 – November 2007

- Coordinator, Ph.D. Admissions for Structural Engineering
September 2004 – May 2008
- Coordinator, Carl Walker Graduate Fellowship
January 2004 – April 2004
- Member, Assessment Committee
September 2003 – July 2008
- Member, Research Committee
September 2003 – August 2006

PROFESSIONAL SERVICE:

Professional Leadership

- Member, Engineering Institutional Review Committee (January 2014 – Present)
Division of Engineering Sciences, Los Alamos National Laboratory, Los Alamos, NM
- Member, Executive Board, IASCM (December 2012 – Present)
International Association on Structural Control and Monitoring (IASCM), Los Angeles, CA
- Publicity Chair, Operating Committee (March 2012 – Present)
2014 American Controls Conference (ACC 2014), Portland, OR
- President, Executive Committee, U.S. Panel (October 2010 – Present)
International Association on Structural Control and Monitoring (IASCM), Los Angeles, CA
- Chair, Program Committee (April 2009 – Present)
Smart Structures and NDE Joint Conference on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems, San Diego, CA
- Co-Chair, Committee on Data Informatics (August 2006 - Present)
Asia-Pacific Network of Centers for Research in Smart Structures Technology, Urbana-Champaign, IL
- Co-Chair, Computing for Resilience and Smart Structures Track (October 2011 – June 2013)
2013 International Workshop for Computing in Civil Engineering, Los Angeles, CA
- Member, Steering Committee (October 2010 – July 2011)
National Research Council (NRC) Workshop on Grand Challenges in Earthquake Engineering Research – A Vision for NEES Experimental Facilities and Cyberinfrastructure Tools, Washington DC
- Co-Organizer (w/ Prof. M. Tomizuka, UC Berkeley) (September 2010 – November 2011)
US-Japan Workshop on Bio-inspired Engineering of Advanced Sensors and Actuators, Berkeley, CA (November 11-12, 2011)
- Chair, Structural Health Monitoring and Controls Committee (October 2009 – October 2011)
Engineering Mechanics Institute (EMI), American Society of Civil Engineers (ASCE), Reston, VA
- Co-Organizer (w/ Prof. Spencer, UIUC & Prof. Goodchild, UCSB) (September 2009 – May 2010)
US-Taiwan Workshop on Mega-Disasters afflicting Mega-Cities, Taipei, Taiwan (May 6-7, 2010)
- Vice-Chair, Structural Health Monitoring and Controls Committee (Oct. 2008 – September 2009)
Engineering Mechanics Institute (EMI), American Society of Civil Engineers (ASCE), Reston, VA
- Secretary, Executive Committee, U.S. Panel (October 2006 – October 2010)
International Association on Structural Control and Monitoring (IASCM), Los Angeles, CA
- Secretary, Structural Health Monitoring and Controls Committee (July 2006 – October 2010)
Engineering Mechanics Institute (EMI), American Society of Civil Engineers (ASCE), Reston, VA

Professional Membership

- Member, Advisory Board, Protecting Canada's Concrete Bridges Center (January 2011 - Present)
Queens University, Kingston, ON, Canada
- Member, Young Members Committee (October 2006 - Present)
Earthquake Engineering Research Institute (EERI), San Francisco, CA
- Member, Information Technology Committee (December 2006 - Present)
Earthquake Engineering Research Institute (EERI), San Francisco, CA
- Member, Structural Health Monitoring and Controls Committee (July 2005 - Present)
Engineering Mechanics Institute (EMI), American Society of Civil Engineers (ASCE), Reston, VA
- Member, Experimental Analysis and Instrumentation Committee (June 2004 - Present)
Engineering Mechanics Institute (EMI), American Society of Civil Engineers (ASCE), Reston, VA
- Member, Structural Control Committee (July 2003 - Present)
Structural Engineering Institute (SEI), American Society of Civil Engineers (ASCE), Reston, VA
- Member, Project Technical Committee for "Development of Structural Health Monitoring Prototype for Ship Structures" (April 2011 - March 2012)
Ship Structures Committee (SSC), U.S. Coast Guard, Washington DC

Conference Organization

- Member, Scientific Committee (March 2014 - August 2015)
2015 Conference of the Engineering Mechanics Institute (EMI 2015), Stanford, CA
- Member, Scientific Committee (January 2014 - July 2015)
7th International Conference on Structural Health Monitoring of Intelligent Infrastructure (SHMII-7 2015), Torino, Italy
- Member, Scientific Committee (January 2014 - September 2014)
International Wind Engineering Conference (IWEC2014), Hannover, Germany
- Member, Scientific Committee (October 2013 - August 2014)
2014 Conference of the Engineering Mechanics Institute (EMI 2014), Hamilton, ON
- Member, Organizing Committee (September 2012 - December 2013)
6th International Conference on Structural Health Monitoring of Intelligent Infrastructure (SHMII-6 2013), Hong Kong
- Member, Organizing Committee (September 2012 - December 2013)
9th International Workshop on Structural Health Monitoring, Stanford, CA
- Member, Scientific Committee (October 2012 - June 2013)
2013 Conference of the Engineering Mechanics Institute (EMI 2013), Evanston, IL
- Member, International Scientific Committee (November 2012 - Present)
7th International Conference on Bridge Maintenance, Safety and Management (IABMAS2014), Shanghai, China
- Member, Technical Program Committee (October 2012 - Present)
Third International Workshop on Sensor Networks for Intelligence Gathering and Monitoring, Nova Scotia, Canada
- Member, International Advisory Committee (March 2012 - October 2012)
Advances in Structural Engineering and Mechanics (ASEM'12), Jeju Island, Korea
- Member, International Organizing Committee (February 2012 - December 2012)
6th International Workshop on Structural Control and Monitoring, Sydney, Australia
- Chair, Best Student Paper Selection Committee (August 2011)
8th International Workshop on Structural Health Monitoring, Stanford, CA

- Member, Scientific Committee (October 2010 – June 2012)
2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability (EMI/PMC 2012), South Bend, IN
- Member, Advisory Committee (October 2010 – August 2012)
NDE/NDT for Highways and Bridges: Structural Materials Technology (SMT) 2012 Conference, New York, NY
- Member, International Scientific Committee (November 2010 – July 2012)
6th International Conference on Bridge Maintenance, Safety and Management (IABMAS2012), Lake Como, Italy
- Member, International Scientific Committee (November 2010 – October 2011)
2011 International Symposium on Innovation & Sustainability in Civil Engineering, Xiamen, China
- Member, International Advisory Committee (November 2010 – July 2011)
1st International Workshop on Design in Civil and Environmental Engineering, Daejeon, Korea
- Member, International Advisory Committee (May 2010 – September 2011)
First World Congress on Advances in Structural Engineering and Mechanics (ASEM'11+), Seoul, Korea
- Member, International Advisory Committee (May 2010 – September 2011)
International Conference on Earthquakes and Structures (ICEAS'11), Seoul, Korea
- Member, International Advisory Committee (May 2010 – September 2011)
International Conference on Smart Structures and Systems (ICOSSS'11), Seoul, Korea
- Member, Organizing Committee (September 2010 – September 2011)
8th International Workshop on Structural Health Monitoring, Stanford, CA
- Member, Program Committee (September 2009 – July 2010)
IEEE Workshop on Sensor Networks Technologies for Information Explosion Era (SeNTIE2010), Kansas City, MO
- Member, Program Committee (November 2009 – October 2010)
11th Workshop on Smart Diagnostics of Structures, Krakow, Poland
- Chair, Best Student Paper Selection Committee (August 2009)
7th International Workshop on Structural Health Monitoring, Stanford, CA
- Member, International Scientific Committee (June 2009 – March 2010)
5th International Conference on Earthquake Engineering and 7th International Conference on Urban Earthquake Engineering Joint Conference, Tokyo, Japan
- Member, Travel Grant Award Committee (September 2009 – July 2010)
9th U.S. National and 10th Canadian Conference on Earthquake Engineering, Toronto, Canada
- Member, International Scientific Committee (December 2008 – December 2009)
11th Pan American Congress of Applied Mechanics (PACAM XI), Paraná, Brazil
- Member, International Scientific Committee (September 2008 – July 2010)
5th International Conference on Bridge Maintenance, Safety and Management (IABMAS2010), Philadelphia, Pennsylvania
- Member, Program Committee (September 2008 – July 2009)
IEEE Workshop on Sensor Networks Technologies for Information Explosion Era (SeNTIE2009), Taipei, Taiwan
- Member, Organizing Committee (September 2008 – September 2009)
7th International Workshop on Structural Health Monitoring, Stanford, CA
- Member, International Advisory Committee (March 2007 – June 2008)
*CIMTEC 2008 – Smart Materials, Structures and Systems
Symposium C: Embodying Intelligence in Structures and Integrated Systems, Sicily, Italy*

- Member, International Scientific Committee (December 2006 –January 2008)
10th Pan American Congress of Applied Mechanics (PACAM X), Cancun, Mexico
- Member, International Scientific Committee (May 2006 – November 2006)
US-Korea Workshop on Smart Structure Technologies for Steel Structures, Seoul, Korea
- Member, International Scientific Committee (May 2005 – October 2006)
4th International Conference on Earthquake Engineering (4th ICEE), Taipei, Taiwan
- Member, Organizing Committee (January 2008 – September 2008)
ASME Smart Materials, Adaptive Structures and Intelligent Systems Conference – SHM/NDE Symposium, Washington D.C.
- Member, Program Committee (March 2005 – Present)
Smart Structures and NDE Joint Conference on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems, San Diego, CA
- Member, Program Committee (November 2007 – March 2008)
International Workshop on Sensor Network Technologies for Information Explosion Era (SeNTIE2008), Beijing, China
- Member, Program Committee (November 2006 –July 2007)
International Workshop on Data Intensive Sensor Networks 2007 (DISN'07), Mannheim, Germany
- Member, Program Committee (March 2006 – Present)
Health Monitoring and Smart NDE of Structural and Biological Systems, San Diego, CA
- Member, Program Committee (March 2008 – Present)
Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security, San Diego, CA
- Member, Program Committee (June 2004 – July 2009)
American Controls Conference (ACC-2005), Portland, OR
American Controls Conference (ACC-2006), Minneapolis, MN
American Controls Conference (ACC-2007), New York City, NY
American Controls Conference (ACC-2009), St. Louis, MO

International Delegation Participation

- Member, United States Delegation (August 2013)
4th Workshop on China-USA Collaboration for Disaster Evolution/Resilience of Civil Infrastructure and Urban Environments, Reno, NV
- Member, United States Delegation (November 2010)
U.S.-China Workshop on Advances Sensors and Bio-inspired Technologies, Shanghai, China
- Member, United States Delegation (April 2009)
International Workshop on Bio-inspired Sensing and Bio-inspired Actuator Technologies for Civil and Mechanical Infrastructure, Taipei, Taiwan
- Member, United States Delegation (April 2008)
ESF-NSF Workshop on Sensor Networks for Civil Infrastructure Systems, Cambridge, UK
- Member, United States Delegation (October 2006)
4th China-Japan-US Symposium on Structural Control and Monitoring, Hangzhou, China
- Member, United States Delegation (October 2006)
US-Taiwan Workshop on Smart Structure Technologies for Seismic Hazard Mitigation, Taipei, Taiwan
- Member, United States Delegation (November 2006)
US-Korea Workshop on Smart Structure Technologies for Steel Structures, Seoul, Korea
- Member, United States Delegation (November 2005)

US-China Research Collaboration for Advancement of Sensor Technologies for Structural Health Monitoring Workshop, Shenzhen, China

- Member, United States Delegation (November 2003)
US-Japan Workshop on Sensors, Structural Health Monitoring and Smart Structures, Tokyo, Japan

Proposal Review

- Reviewer, SBIR/STTR Competition (March 2013)
Department of Energy (DOE), Washington, D. C.
- Reviewer, Ontario Centres of Excellence Research Program (April 2012)
Ontario Centres of Excellence (OCE), Toronto, ON
- Reviewer, Programme Grant Program (April 2012)
Engineering and Physical Science Research Council (EPSRC), UK
- Reviewer, Laboratory Directed Research and Development (LDRD) Program (June 2011)
Los Alamos National Laboratory (LANL), Los Alamos, NM
- Reviewer, Regular Grant Program (May 2011)
Engineering and Physical Science Research Council (EPSRC), UK
- Reviewer, Discovery Grant Program (January 2010)
National Sciences and Engineering Research Council (NSERC) of Canada
- Reviewer, Integral Solutions for Sustainable Construction (IS2C) Program (September 2009)
Technical Foundation STW, Netherlands
- Reviewer, MASTER 2009 Program (September 2009)
Foundation for Polish Science, Poland
- Member, Engineering Translational Research (ETR) Proposal Review (January 2009, January 2010)
Office of Technology Transfer (OTT), University of Michigan, Ann Arbor, MI
- Member, Research Excellence Centers (REC) Program (October 2008)
National Research Foundation, United Arab Emirates
- Member, Civil, Mechanical and Manufacturing Innovation (CMMI) Panel (Multiple times)
National Science Foundation (NSF), Washington, D. C.
- Invited Reviewer, Connecticut Cooperative Highway Research Program (December 2007)
Joint Highway Research Advisory Council (JHRAC), Hartford, Connecticut
- Invited Reviewer, Strategic Research Cluster Programme (June 2007)
Science Foundation of Ireland (SFI), Dublin, Ireland
- Member, Computer and Information Science and Engineering (CISE) Panel (April 2007)
National Science Foundation (NSF), Washington, D. C.
- Member, Civil and Mechanical Systems (CMS) Panel (Multiple times)
National Science Foundation (NSF), Washington, D. C.

Editorial Board Service

- Editor-in-Chief, *Earthquakes and Structures*, TechnoPress, 2009-Present
- Associate Editor, *Sustainable Materials and Structural Systems*, Inderscience, 2012-Present
- Associate Editor, *Structure and Infrastructure Engineering*, Taylor & Francis Group, 2009-Present
- Associate Editor, *Journal of Engineering Mechanics*, ASCE, 2009-Present
- Associate Editor, *Journal of Computing in Civil Engineering*, ASCE, 2008-Present
- Associate Editor, *Proceedings of the American Controls Conference*, ASCE Papers, 2005 – 2009

Technical Reviewer*

- Reviewer, *14th World Conference on Earthquake Engineering* (30)
- Reviewer, *American Controls Conference (ACC)* (13)
- Reviewer, *Computer-Aided Civil and Infrastructure Engineering*, Blackwell (23)
- Reviewer, *Journal of Engineering Mechanics*, ASCE (20)
- Reviewer, *Smart Structures and Systems*, Techno Press (18)
- Reviewer, *Smart Materials and Structures*, IOP (14)
- Reviewer, *Structure and Infrastructure Engineering*, Taylor and Francis (12)
- Reviewer, *Journal of Structural Health Monitoring*, Sage (10)
- Reviewer, *Engineering Structures*, Elsevier (9)
- Reviewer, *Nanotechnology*, IOP (9)
- Reviewer, *Mechanical Systems and Signal Processing*, Elsevier (8)
- Reviewer, *Journal of Structural Engineering*, ASCE (8)
- Reviewer, *Earthquake Engineering and Structural Dynamics*, Wiley (7)
- Reviewer, *9th U.S. National and 10th Canadian Conference on Earthquake Engineering* (7)
- Reviewer, *Journal of Structural Control and Health Monitoring*, Wiley (6)
- Reviewer, *Korean Society of Civil Engineering Journal of Civil Engineering*, KSCE (5)
- Reviewer, *Journal of Vibration and Acoustics*, AMSE (5)
- Reviewer, *Journal of Bridge Engineering*, ASCE (5)
- Reviewer, *Journal of Earthquake Engineering*, Imperial College Press (4)
- Reviewer, *Journal of Intelligent Material Systems & Structures*, Sage (4)
- Reviewer, *Journal of Infrastructure Engineering*, ASCE (3)
- Reviewer, *IEEE Sensors Journal*, IEEE (3)
- Reviewer, *Journal of Computing in Civil Engineering*, ASCE (3)
- Reviewer, *International Conference on Statistic and Probability in Civil Engineering* (3)
- Reviewer, *Measurement Science and Technology*, IOP (3)
- Reviewer, *Journal of Micromechanics and Microengineering*, IOP (2)
- Reviewer, *International Workshop on Data Intensive Sensor Networks 2007* (2)
- Reviewer, *Journal of Sound and Vibration*, Elsevier (2)
- Reviewer, *CMC: Computers, Materials, & Continua*, Tech Science Press (2)
- Reviewer, *Journal of Materials in Civil Engineering* (2)
- Reviewer, *International Journal of Architectural Heritage*, Taylor and Francis (2)
- Reviewer, *Advances in Structural Engineering*, Multi-Science Press (2)
- Reviewer, *Journal of Applied Physics*, AIP (1)
- Reviewer, *Journal of Material Science*, Springer (1)
- Reviewer, *Philosophical Transactions of the Royal Society: Series A*, Royal Society (1)
- Reviewer, *Structural Engineering and Mechanics*, Techno Press (1)
- Reviewer, *Carbon*, Elsevier (1)
- Reviewer, *IEEE/ACM Transactions on Networking*, IEEE/ACM (1)
- Reviewer, *Nonlinear Dynamics*, Springer (1)

* Note: Number in parentheses are rough estimates of the number of manuscripts reviewed

- Reviewer, *Semiconductor Science and Technology*, IOP (1)
- Reviewer, *Journal for Numerical Methods in Engineering*, Wiley (1)
- Reviewer, *Journal of Composite Materials*, Sage (1)
- Reviewer, *Cement and Concrete Composites*, Elsevier (1)
- Reviewer, *International Journal for Applied Electromagnetics and Mechanics*, IOS Press (1)
- Reviewer, *Advanced Engineering Informatics*, Elsevier (1)
- Reviewer, *Bridge Engineering*, Institute of Civil Engineering (1)
- Reviewer, *Journal of Materials in Civil Engineering*, ASCE (1)
- Reviewer, *Canadian Journal of Civil Engineering*, NRC Press (1)
- Reviewer, *Journal of Strain Analysis for Engineering Design*, Sage (1)
- Reviewer, *Automation in Constructions*, Elsevier (1)
- Reviewer, *Kuwait Journal of Science and Engineering*, Kuwait University (1)
- Reviewer, *Journal of Communication Networks and Distributed Systems*, InderScience (1)
- Reviewer, *Journal of Mechanics of Materials and Structure*, Mathematical Science Publishers (1)
- Reviewer, *Journal of Communications and Networks*, Korea Information and Comm. Society (1)
- Reviewer, *Ad Hoc & Sensor Wireless Networks*, OCP Science (1)
- Reviewer, *Experimental Techniques*, Society of Engineering Mechanics (1)
- Reviewer, *International Workshop on Sensor Network Technologies for Information Explosion* (1)
- Reviewer, *American Concrete Institute (ACI) Special Publications Chapters* (1)

OUTREACH AND COMMUNITY SERVICE:

- Advisor, Naval Engineering Education Center (NEEC) Undergraduate Research Program
Naval Engineering Education Center, University of Michigan, Ann Arbor, MI
 - Mr. Evan Giampa, University of Michigan (January 2012 - June 2013)
 - Mr. Colin Nangle, University of Michigan (May 2013 - Present)
 - Ms. Tam Nguyen, University of Michigan (May 2014 - Present)
- Advisor, Summer Undergraduate in Research Engineering (SURE)
College of Engineering, University of Michigan, Ann Arbor, MI
 - Mr. Dong Zhang, University of Michigan (May-August 2014)
 - Mr. Leon Paredes, University of Florida (May - July 2012)
 - Mr. Zeshi Zheng, University of Michigan (May - August 2012)
 - Ms. Jiao Yiyang, University of Michigan (May - August 2012)
 - Ms. Nicola Carey, Carnegie-Mellon University (June - August 2011)
 - Ms. Yilan Zhang, University of Michigan (May - August 2010)
 - Mr. Edward Byrne, University of Michigan (May - August 2010)
- Advisor, Network for Women in Civil and Environmental Engineering (NeWinCEE)
Department of Civil and Environmental Engineering, University of Michigan, Ann Arbor, MI
 - Ms. Tam Nguyen, University of Michigan (May 2014 - Present)
- Department Liaison, SCEEP Summer Program (Summer 2009)
Multicultural Engineering Program Office (MEPO), University of Michigan, Ann Arbor, MI
- Co-Organizer, LEAD Engineering Summer Program (Summer 2009)
College of Engineering, University of Michigan, Ann Arbor, MI
- Department Liaison, ENGAGE Summer Camp (Summer 2009)
Women in Science and Engineering, University of Michigan, Ann Arbor, MI
- Organizer, Engineering Civilization Short-Course (Winter 2009-Present)

Detroit Area Pre-College Engineering Program (DAPCEP), Multicultural Engineering Program Office (MEPO), University of Michigan, Ann Arbor, MI

- Advisor, WIMS Undergraduate Research Program (WUGR)
College of Engineering, University of Michigan, Ann Arbor, MI
 - Mr. Ian Beil, Washington University of St. Louis (May – August 2009)
 - Mr. Ian Beil, Washington University of St. Louis (July – August 2010)
- Invited Speaker, Women in Science and Engineering in Residence Program (November 2007)
Women in Science and Engineering, University of Michigan, Ann Arbor, MI
- Department Liaison, Girls in Science and Engineering Program (GISE@UM) (Summer 2006, Summer 2007, Summer 2008, Summer 2009)
Women in Science and Engineering, University of Michigan, Ann Arbor, MI
- Department Liaison, Michigan-Science, Technology, Engineering and Mathematics (M-STEM) (Summer 2008, Summer 2009)
College of Engineering, University of Michigan, Ann Arbor, MI
- Faculty Advisor, Wireless Integrated Microsystems Engineering Research Center, Research in Undergraduate Education (REU)
College of Engineering, University of Michigan, Ann Arbor, MI
 - Mr. Roel Huerta, University of Houston (May – August 2005)
 - Ms. Sonia Garcia, University of Houston (May – August 2006)
 - Mr. Anthony DeFilippo, University of Michigan (January – May 2007)
 - Mr. Terrance McKnight, Morehouse College (May – August 2007)
 - Mr. Roy Guoqiang Wang, University of Michigan (January – August 2008)
- Faculty Advisor, Summer Research Internship Program (Summer 2007)
Mr. Stephen Wu, Civil and Environmental Engineering, University of Michigan
- Co-Organizer, Introduction to Bridges, K-12 Students (Spring 2005, Spring 2006)
Dexter Public School District, Dexter, MI
- Faculty Advisor, Marian Sarah Parker Graduate Program
Women in Science and Engineering (WISE), University of Michigan, Ann Arbor, MI
 - Ms. Genevieve Ho, University of Michigan (August 2008 – July 2009)
 - Ms. Aulihan Teng, University of Michigan (Sept 2005 – December 2006)
 - Ms. Sara Jozefiak, University of Michigan (Jan – July 2006)
- Faculty Advisor, NASA SHARP Summer High-School Program (Summer 2004)
Ms. Ling Tram (currently with the University of Pennsylvania)
College of Engineering, University of Michigan, Ann Arbor, MI

INVITED SEMINARS:

- “A Wireless Cyber-Physical System Framework for Enhancing the Resiliency of Civil Infrastructure Systems,” presented to the School of Civil and Mechanical Engineering, *Georgia Institute of Technology*, Atlanta, GA, March 2014.
- “Wireless Cyber-Physical Infrastructure Systems: a Framework for Intelligent Monitoring and Control of Civil Infrastructure Systems,” presented to the Department of Civil and Environmental Engineering, *University of California Irvine*, Irvine, CA, March 2014.
- “A Wireless Cyber-Physical System Framework for Enhancing the Resiliency of Civil Infrastructure Systems,” presented to the Department of Civil and Mechanical Engineering, *California Institute of Technology*, Pasadena, CA, May 2013.
- “Compressive Sensing in Asynchronous Wireless Sensor Networks for High-Performance Infrastructure Monitoring,” presented to the Department of Civil and Environmental Engineering, *University of Illinois Urbana Champagne*, Urbana, IL, April 2013.

- “Bio-inspired Compressive Sensing for Structural Monitoring Applications,” presented to CEE575: *Sensing for Civil Infrastructure Systems (Department of Civil and Environmental Engineering, University of Michigan)*, April 2013.
- “Compressive Sensing in Asynchronous Wireless Sensor Networks for High-Performance Infrastructure Monitoring,” presented to the Department of Civil and Environmental Engineering, *Iowa State University, Ames, IA*, April 2013.
- “Building a Multidisciplinary Research Program across Traditional Disciplinary Boundaries,” presented to the Science of Signatures Advanced Studies Scholars Program, *Los Alamos National Laboratory, Los Alamos, NM*, April 2013.
- “Field Deployments of Wireless Monitoring Systems for Bridge Health Monitoring,” presented to the Workshop on Incorporating Non-Destructive Testing in Managing Highway Bridge Assets, *Michigan Department of Transportation, Lansing, MI*, March 2013.
- “Compressive Sensing in Asynchronous Wireless Sensor Networks for High-Performance Infrastructure Monitoring,” presented to the Department of Civil and Environmental Engineering, *University of Southern California, Los Angeles, CA*, March 2013.
- “Nanoengineered Thin Film Systems for Spatial Mapping of Structural Health,” presented to the Department of Aerospace and Mechanical Engineering, *Notre Dame University, South Bend, IA*, November 2012.
- “Smart Materials: from Nano-composite Sensing Skins to Self-sensing Cement-based Structures,” presented to ARCH706: *Theories in Material Systems (Taubman College of Architecture and Urban Planning, University of Michigan)*, October 2012.
- “Field Validation of a Wireless Cyber-enabled Monitoring System on a Long-Span Suspension Bridge,” presented to CEE812: *Structural Engineering Seminar (Department of Civil and Environmental Engineering, University of Michigan)*, October 2012.
- “Intelligent Adaptive Building Envelope Systems for Energy-Efficient Buildings,” presented to *President Coleman’s Michigan Seminar Series, Ann Arbor, MI*, September 2012.
- “Advanced Sensing and Information Technologies for the Health Monitoring of Bridges,” presented to the *Michigan Bridge Conference 2012, Howell, MI*, March 2012.
- “Long-term Field Deployments of Wireless Monitoring Systems for Health Monitoring of Long-Span Bridges,” presented to the Department of Civil and Structural Engineering, *Hong Kong Polytechnic University, Kowloon, Hong Kong*, October 2011.
- “Bio-inspired Sensing Skins for Structural Health Monitoring,” presented to the School of Civil Engineering, *Harbin Institute of Technology, Harbin, China*, May 2011.
- “State of Bridges in the State of Michigan: Challenges and Opportunities,” presented to the *Road Maintenance Best Practices Conference 2011, Lansing, MI*, July 2011.
- “Challenges of Mega-scale Disasters afflicting Mega-cities,” presented to the Institute of Engineering Mechanics, *Chinese Earthquake Administration, Harbin, China*, May 2011.
- “Monitoring and Assessing the Structural Integrity of Infrastructure Systems using Next-Generation Sensor Technologies,” presented to the Department of Mechanical Engineering, *University of Maryland Baltimore County (UMBC), Baltimore, MD*, May 2011.
- “Distributed Wireless Sensor Networks for Monitoring and Control of the Built Environment,” presented to *Honeywell Corporation, Minnesota, MN*, October 2010.
- “Smart Infrastructure: Ubiquitous Sensing for a Safe and Sustainable Future,” presented to the Disaster Prevention Research Institute, *University of Kyoto, Kyoto, Japan*, July 2010.
- “Smart Infrastructure: Ubiquitous Sensing for a Safe and Sustainable Future,” presented to the *University of Michigan College of Engineering Back to the Future Alumni Event*, May 2010.

- “Wireless Sensor Networks and Self-Sensing Materials for Structural Health Monitoring of Infrastructure Systems,” presented to the Department of Civil and Environmental Engineering, *Princeton University*, Princeton, NJ, January 2010.
- “Distributed Sensing Methods for Health Monitoring of Civil Infrastructure Systems,” presented to the Department of Civil and Environmental Engineering, *University of Pittsburgh*, Pittsburgh, PA, November 2009.
- “The Art and Science of Sensing and Control of Infrastructure Systems,” presented to the ME559: *Smart Materials and Structure (Department of Mechanical Engineering, University of Michigan)*, November 2009.
- “What Do You Think When I Say Civil Engineering? A Multi-disciplinary View of Our Field,” present to the University of Michigan Chapter of the American Society of Civil Engineers (ASCE), *University of Michigan*, Ann Arbor, MI, October 2009.
- “Wireless Computational Intelligence for Monitoring and Control of Infrastructure Systems,” presented to the Division of Engineering and Applied Science, *California Institute of Technology*, Pasadena, California, May 2009.
- “Wireless and Nano-engineered Distributed Sensing Technology for Monitoring Large-Scale Civil Infrastructure Systems,” presented to the Department of Civil Engineering, *University of Minnesota*, Minneapolis, Minnesota, April 2009.
- “Sensing at the Cyber-Built Infrastructure Interface,” presented to the Computer Aided Engineering Group, *National Taiwan University*, Taipei, Taiwan, February 2009.
- “Embedded Computing for Wireless Sensor Networks,” presented to the Department of Electrical and Computer Engineering, *Michigan State University*, Lansing, Michigan, January 2009.
- “Distributed Sensing Paradigms for Structural Health Monitoring,” presented to the *National Center for Research on Earthquake Engineering (NCREE)*, Taipei, Taiwan, December 2008.
- “In-Network Data Processing of Wireless Structural Monitoring Data,” presented to the Department of Civil Engineering, *National Taiwan University*, Taipei, Taiwan, December 2008.
- “Distributed Sensing Paradigms for Structural Health Monitoring,” presented to the Department of Civil and Environmental Engineering, *Rice University*, December 2008.
- “Distributed Data Processing Architectures for Structural Monitoring Systems Implemented on Wireless Sensor Networks,” presented to the Department of Mechanical Engineering, *Purdue University*, November 2008.
- “Sea Trials of a Wireless Hull Monitoring System Installed on the SeaFighter,” presented to the *Naval Surface Warfare Center Carderock Division*, October 2008.
- “Embedded Data Processing Architectures in Wireless Sensor Networks,” presented to the *Naval Research Laboratory (NRL)*, May 2008.
- “Carbon Nanotube Sensing Skins for Structural Health Monitoring,” presented to the Center for Excellence in Structural Health Monitoring, *Pennsylvania State University*, April 2008.
- “Spatially Distributed Sensing Technologies for Performance Monitoring and Health Assessment of Civil Structures,” presented to Department of Structural Engineering, *University of California, San Diego*, February 2008.
- “Sensors and Circuits for Structural Health Monitoring,” presented to CEE638: *Sensing for Civil Infrastructure Development (Department of Civil and Environmental Engineering, University of Michigan)*, January 2008.
- “Advanced Sensor Technologies for Smart Structures,” presented to the Department of Civil Engineering and Geological Science, *University of Notre Dame*, December 2007.

- “Smart Structures: A New Paradigm for Civil Engineering Structures,” presented to the *University of Michigan’s Women in Science and Engineering in Residence Program*, November 2007.
- “Wireless Structural Monitoring and Control Systems for Structures,” presented to the *ME560: Smart Materials and Structure (Department of Mechanical Engineering, University of Michigan)*, November 2007.
- “Multifunctional Carbon Nanotube Sensing Skins for Structural Health Monitoring,” presented to the *University of Michigan Chi Epsilon Student Chapter*, October 2007.
- “Multifunctional Materials for Structural Health Monitoring and Passive Wireless Sensing,” presented to the Department of Computer and Systems Engineering, *Yamaguchi University*, Yamaguchi, Japan, September 2007.
- “Wireless Monitoring Systems and Multifunctional Carbon Nanotube Materials for Next-Generation Smart Structures,” presented to the Institute of Technology, *Shimizu Corporation*, Tokyo, Japan, September 2007.
- “Performance Assessment of Large-Scale Structures using Wireless Sensor Networks and In-Network Data Processing,” presented to the Faculty of Engineering, *University of Mauritius*, Reduit, Mauritius, May 2007.
- “Performance Assessment of Large-Scale Structures using Wireless Sensor Networks and In-Network Data Processing,” presented to the Institute of Statics and Dynamics, *University of Hannover - Leibniz*, Germany, April 2007.
- “Multifunctional Carbon Nanotube Composites: Application to Sensing,” presented to the Department of Electrical and Computer Engineering, *Michigan State University*, April 2007.
- “Multifunctional Materials: Carbon Nanotube Composites,” presented to *CEE810: Special Topics in Structures and Material Engineering*, April 2007.
- “Introduction to Wireless Sensors for Civil Infrastructure Monitoring,” presented to *CEE810: Special Topics in Structures and Material Engineering*, March 2007.
- “Sensors for Large-Scale Civil Infrastructure: from Wireless Sensor Networks to Carbon Nanotube Thin Films” presented to the Department of Civil Engineering, *Texas A&M University*, January 2007.
- “Smart Wireless Sensors for Next-Generation Civil Infrastructure: Sensing, Computing and Control,” presented to the School of Civil Engineering and Environmental Science, *University of Oklahoma*, December 2006.
- “Smart Wireless Sensors for Next-Generation Civil Infrastructure: Sensing, Computing and Control,” presented to the *Oklahoma Turnpike Authority (OTA)*, December 2006.
- “Wireless Sensors and Carbon Nanotube Thin Film Sensors for Structural Monitoring,” presented to the Department of Civil and Environmental Engineering, *University of Illinois at Urbana-Champaign*, November 2006.
- “Micro- and Nano-Systems for Structural Health Monitoring,” presented to the *University of Michigan Chi Epsilon Student Chapter*, November 2006.
- “Mechanical-Electrical Characterization of Carbon-Nanotube Thin Films for Structural Monitoring Applications,” presented to the *Single Molecule Symposium*, University of Michigan, May 2006.
- “Introduction to Structural Health Monitoring of Infrastructure Systems: Monitoring, Active Sensing and Controls,” presented to the *ME560: Smart Materials and Structure (Department of Mechanical Engineering, University of Michigan)*, April 2006.
- “Distributed Data Processing and Real-Time Control using Wireless Sensor Networks,” presented to the *University of Michigan Controls Group*, March 2006.

- “Multi-scale Approaches to the Development of Smart Structure Technology,” presented to the Department of Civil and Environmental Engineering, *Michigan State University*, October 2005.
- “Wireless Sensor Networks for Ship Monitoring, Control and Enhanced Survivability,” presented to the *Office of Naval Research*, Arlington, VA, August 2005.
- “Wireless Sensors and Sensor Networks for Structural Monitoring Applications,” presented to the Department of Civil and Environmental Engineering, *Myongji University, Korea*, July 2005.
- “Wireless Sensors and Sensor Networks for Structural Monitoring Applications,” presented to the Department of Civil and Environmental Engineering, *Seoul National University, Korea*, July 2005.
- “Multi-Scale Approaches to Structural Health Monitoring Technologies,” presented to the Institute of Mechanics, *University of Stuttgart, Germany*, June 2005.
- “Multi-Scale Approaches to Structural Health Monitoring Technologies,” presented to the Department of Civil Engineering, *National Taiwan University, Taiwan*, June 2005.
- “Wireless Sensor Networks for Automated Structural Health Monitoring,” presented to the Department of Civil Engineering, *University of Kyoto, Japan*, June 2005.
- “Living and Doing Research in a Foreign Country: Japan,” presented to the *National Science Foundation East Asia Summer Institutes Program*, April 2005.
- “The Value of International Research and Collaboration,” presented to the *National Science Foundation East Asia Summer Institutes Program*, April 2005.
- “Wireless Self-Actuated Structures: Monitoring for Structural Health and Control,” presented to the Department of Civil Engineering, *Korea Advanced Institute of Technology (KAIST), Korea*, December 2004.
- “Ubiquitous Wireless Sensing and Computing Technologies for Structural Health Monitoring,” presented to the Department of Civil and Environmental Engineering, *Duke University*, October 2004.
- “Wireless Telemetry and Embedded Computing for Automated Structural Health Monitoring,” presented to the Department of Civil Engineering, *Korea Advanced Institute of Technology (KAIST), Korea*, August 2004.
- “The Decentralization of Wireless Monitoring and Control Technologies for Smart Civil Infrastructure” presented to the *University of Michigan Civil and Environmental Friends Association*, April 2004.
- “Decentralization of Smart Structure Technologies: Semi-Active Structural Control & Wireless Monitoring,” presented to the *University of Michigan Controls Group*, April 2004.
- “Wireless Sensors for Monitoring Smart Civil Structures: An End Users Perspective,” presented to the *NSF Engineering Research Center for Wireless Integrated Micro-systems*, February 2004
- “Decentralization of Wireless Monitoring and Control Technologies for Smart Civil Systems,” presented to the Department of Civil and Environmental Engineering, *Georgia Institute of Technology*, February 2004
- “Wireless Sensing and Actuation of Smart Civil Systems,” presented to the Department of Civil Engineering, *University of Tokyo, Japan*, November 2003
- “Decentralization of Wireless Monitoring and Control Technologies for Smart Civil Systems,” presented to *SC Solutions, Inc.*, May 2003
- “Decentralization of Wireless Monitoring and Control Technologies for Smart Civil Systems,” presented to the Department of Structural Engineering, *University of California – San Diego*, April 2003

- “Monitoring Critical Infrastructure Systems for Health and Security,” presented to the Division of Structural Inspection, *New York State Department of Transportation (NYSDOT)*, March 2003
- “Wireless Structural Monitoring for New York City Bridges,” presented to the Division of Bridges, *New York City Department of Transportation (NYCDOT)*, March 2003
- “Decentralization of Wireless Monitoring and Control Technologies for Smart Civil Systems,” presented to the Department of Civil and Environmental Engineering, *Carnegie Mellon University*, January 2003

PROFESSIONAL AFFILIATIONS:

- Engineer in Training, State of New York, 1997
- Tau Beta Pi, Member (1996-Present)
- Chi Epsilon, Member (1997-Present)
- American Society of Civil Engineers (ASCE), Member (1993-Present)
- Earthquake Engineering Research Institute (EERI), Member (2000-Present)
- American Society of Engineering Education (ASEE), Member (2003-Present)
- Institute of Electrical and Electronic Engineers (IEEE), Member (2002-Present)
- Society of Engineering Mechanics (SEM), Member (2001-Present)