

Stanford



Kincho Law

Professor of Civil and Environmental Engineering

CONTACT INFORMATION

- **Administrator**

Kim Vonner - Administrative Associate

Email kvonner@stanford.edu

Tel (650) 723-4121

Bio

BIO

Law's research interest is in the application of advanced computing principles and techniques for structural engineering analysis and design. His research interests include computational mechanics, numerical methods, and analysis and simulation of large-scale systems using distributed workstations and high performance parallel computers. His work has also dealt with sensing, monitoring and control of structures as well as various aspects of computer-aided design, including application of information technology to facilitate regulatory compliance assistance, to facilitate analysis and design of building structures and to coordinate concurrent engineering design activities.

ACADEMIC APPOINTMENTS

- Professor, Civil and Environmental Engineering

PROFESSIONAL EDUCATION

- PhD, Carnegie Mellon University , Civil Engineering (1981)
- MS, Carnegie Mellon University , Civil Engineering (1979)
- B.Sc, University of Hawaii , Civil Engineering (1976)
- BA, University of Hawaii , Mathematics (1976)

LINKS

- <http://eil.stanford.edu/law>: <http://eil.stanford.edu/law>

Research & Scholarship

PROJECTS

- Cloud Computing Services for Lifecycle Bridge Monitoring - Stanford University (6/1/2014 - 3/31/2018)

Teaching

COURSES

2021-22

- Finite Element Methods in Structural Dynamics: CEE 284 (Aut)
- Optimization in Structural Engineering: CEE 380 (Spr)
- Structural Dynamics: CEE 283 (Win)

2020-21

- Finite Element Methods in Structural Dynamics: CEE 284 (Aut)
- Structural Dynamics: CEE 283 (Win)

2019-20

- Finite Element Methods in Structural Dynamics: CEE 284 (Aut)
- Structural Dynamics: CEE 283 (Win)

2018-19

- Finite Element Methods in Structural Dynamics: CEE 284 (Aut)
- Structural Dynamics: CEE 283 (Win)

STANFORD ADVISEES

Doctoral Dissertation Advisor (AC)

Vivian Wong

Master's Program Advisor

Huijian Cai, Rhythm Dharmesh Patel, Chris Patron, Owen Zukowski

Publications

PUBLICATIONS

- **Data-driven analytical load rating method of bridges using integrated bridge structural response and weigh-in-motion truck data** *MECHANICAL SYSTEMS AND SIGNAL PROCESSING*
Hou, R., Jeong, S., Lynch, J. P., Ettouney, M. M., Law, K. H.
2022; 163
- **Machine learning-based regional scale intelligent modeling of building information for natural hazard risk management** *AUTOMATION IN CONSTRUCTION*
Wang, C., Yu, Q., Law, K. H., McKenna, F., Yu, S. X., Taciroglu, E., Zsarnoczay, A., Elhaddad, W., Cetiner, B.
2021; 122
- **An agent-based simulator for indoor crowd evacuation considering fire impacts** *AUTOMATION IN CONSTRUCTION*
Li, Z., Huang, H., Li, N., Chu, M., Law, K.
2020; 120
- **Rapid visual screening of soft-story buildings from street view images using deep learning classification** *EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION*
Yu, Q., Wang, C., McKenna, F., Yu, S. X., Taciroglu, E., Cetiner, B., Law, K. H.
2020; 19 (4): 827–38
- **Cyber-physical system architecture for automating the mapping of truck loads to bridge behavior using computer vision in connected highway corridors** *TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES*
Hou, R., Jeong, S., Lynch, J. P., Law, K. H.

2020; 111: 547–71

- **A STANDARDIZED REPRESENTATION OF CONVOLUTIONAL NEURAL NETWORKS FOR RELIABLE DEPLOYMENT OF MACHINE LEARNING MODELS IN THE MANUFACTURING INDUSTRY**
Ferguson, M., Jeong, S., Law, K. H., Levitan, S., Narayanan, A., Burkhardt, R., Jena, T., Lee, Y., ASME AMER SOC MECHANICAL ENGINEERS.2020
- **Smart City: Technologies and Challenges** *IT PROFESSIONAL*
Law, K. H., Lynch, J. P.
2019; 21 (6): 46–50
- **Sensor data reconstruction using bidirectional recurrent neural network with application to bridge monitoring** *ADVANCED ENGINEERING INFORMATICS*
Jeong, S., Ferguson, M., Hou, R., Lynch, J. P., Sohn, H., Law, K. H.
2019; 42
- **Incorporating Individual Behavior, Knowledge, and Roles in Simulating Evacuation** *FIRE TECHNOLOGY*
Chu, M., Law, K. H.
2019; 55 (2): 437–64
- **A scalable cloud-based cyberinfrastructure platform for bridge monitoring** *STRUCTURE AND INFRASTRUCTURE ENGINEERING*
Jeong, S., Hou, R., Lynch, J. P., Sohn, H., Law, K. H.
2019; 15 (1): 82–102
- **A Standardized PMML Format for Representing Convolutional Neural Networks with Application to Defect Detection** *SMART AND SUSTAINABLE MANUFACTURING SYSTEMS*
Ferguson, M., Lee, Y., Narayanan, A., Law, K. H.
2019; 3 (1): 79–97
- **Sensor Data Reconstruction and Anomaly Detection using Bidirectional Recurrent Neural Network**
Jeong, S., Ferguson, M., Law, K. H., Lynch, J. P., Huang, H., Sohn, H., Wang, K. W.
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **Reidentification of Trucks in Highway Corridors using Convolutional Neural Networks to Link Truck Weights to Bridge Responses**
Hou, R., Jeong, S., Law, K. H., Lynch, J. P., Lynch, J. P., Huang, H., Sohn, H., Wang, K. W.
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **Utilization of Bio-Ontologies for Enhancing Patent Information Retrieval**
Taduri, S., Law, K. H., Kesan, J. P., Sriram, R. D., Getov, Gaudiot, J. L., Yamai, N., Cimato, S., Chang, M., Teranishi, Y., Yang, J. J., Leong, H. V., Shahriar, H., et al
IEEE COMPUTER SOC.2019: 91–96
- **An Assistive Learning Workflow on Annotating Images for Object Detection**
Wong, V., Ferguson, M., Law, K. H., Lee, Y., Baru, C., Huan, J., Khan, L., Hu, X. H., Ak, R., Tian, Y., Barga, R., Zaniolo, C., Lee, et al
IEEE.2019: 1962–70
- **A Bridge Information Modeling Framework for Model Interoperability**
Qin, Y., Xiao, R., Wang, Y., Law, K. H., Cho, Y. K., Leite, F., Behzadan, A., Wang, C.
AMER SOC CIVIL ENGINEERS.2019: 447–54
- **Worksite Object Characterization for Automatically Updating Building Information Models**
Ferguson, M., Jeong, S., Law, K. H., Cho, Y. K., Leite, F., Behzadan, A., Wang, C.
AMER SOC CIVIL ENGINEERS.2019: 303–11
- **A Standardized PMML Format for Representing Convolutional Neural Networks with Application to Defect Detection.** *Smart and sustainable manufacturing systems*
Ferguson, M., Lee, Y. T., Narayanan, A., Law, K. H.
2019; 3 (1): 79-97
- **A 2D-3D Object Detection System for Updating Building Information Models with Mobile Robots**
Ferguson, M., Law, K., IEEE

IEEE.2019: 1357–65

- **Detection and Segmentation of Manufacturing Defects with Convolutional Neural Networks and Transfer Learning.** *Smart and sustainable manufacturing systems*
Ferguson, M. K., Ronay, A., Lee, Y. T., Law, K. H.
2018; 2
- **Data Driven Analytics (Machine Learning) for System Characterization, Diagnostics and Control Optimization**
Park, J., Ferguson, M., Law, K. H., Smith, I. F., Domer, B.
SPRINGER INTERNATIONAL PUBLISHING AG.2018: 16–36
- **Detection and Segmentation of Manufacturing Defects with Convolutional Neural Networks and Transfer Learning** *SMART AND SUSTAINABLE MANUFACTURING SYSTEMS*
Ferguson, M., Ak, R., Lee, Y., Law, K. H.
2018; 2 (1): 137–64
- **An information modeling framework for bridge monitoring** *ADVANCES IN ENGINEERING SOFTWARE*
Jeong, S., Hou, R., Lynch, J. P., Sohn, H., Law, K. H.
2017; 114: 11–31
- **A Data-Driven, Cooperative Approach for Wind Farm Control: A Wind Tunnel Experimentation** *ENERGIES*
Park, J., Kwon, S., Law, K.
2017; 10 (7)
- **Toward a Generalized Energy Prediction Model for Machine Tools** *JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME*
Bhinge, R., Park, J., Law, K. H., Dornfeld, D. A., Helu, M., Rachuri, S.
2017; 139 (4)
- **A GENERALIZED METHOD FOR FEATURIZATION OF MANUFACTURING SIGNALS, WITH APPLICATION TO TOOL CONDITION MONITORING**
Ferguson, M., Law, K. H., Bhinge, R., Lee, Y., ASME
AMER SOC MECHANICAL ENGINEERS.2017
- **A Distributed Cloud-based Cyberinfrastructure Framework for Integrated Bridge Monitoring**
Jeong, S., Hou, R., Lynch, J. P., Sohn, H., Law, K. H., Lynch, J. P.
SPIE-INT SOC OPTICAL ENGINEERING.2017
- **A computational framework for regional seismic simulation of buildings with multiple fidelity models** *ADVANCES IN ENGINEERING SOFTWARE*
Xu, Z., Lu, X., Law, K. H.
2016; 99: 100–110
- **Bayesian Ascent: A Data-Driven Optimization Scheme for Real-Time Control With Application to Wind Farm Power Maximization** *IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY*
Park, J., Law, K. H.
2016; 24 (5): 1655–68
- **A NoSQL data management infrastructure for bridge monitoring** *SMART STRUCTURES AND SYSTEMS*
Jeong, S., Zhang, Y., O'Connor, S., Lynch, J. P., Sohn, H., Law, K. H.
2016; 17 (4): 669-690
- **A data-driven, cooperative wind farm control to maximize the total power production** *APPLIED ENERGY*
Park, J., Law, K. H.
2016; 165: 151-165
- **CLOUD-BASED CYBER INFRASTRUCTURE FOR BRIDGE MONITORING**
Jeong, S., Hou, R., Lynch, J. P., Sohn, H., Law, K. H., Yang, Q., Yang, Y., Ru, J.
SCIENCE PRESS BEIJING.2016: 252–57
- **Evaluation of a PMML-Based GPR Scoring Engine on a Cloud Platform and Microcomputer Board for Smart Manufacturing**
Ferguson, M., Law, K. H., Bhinge, R., Dornfeld, D., Park, J., Lee, Y., Joshi, J., Karypis, G., Liu, L., Hu, Ak, R., Xia, Y., Xu, W., et al

IEEE.2016: 2014–23

- **A Data-Driven Approach for Cooperative Wind Farm Control**

Park, J., Kwon, S., Law, K. H., IEEE

IEEE.2016: 525–30

- **A Cloud based Information Repository for Bridge Monitoring Applications**

Jeong, S., Zhang, Y., Hou, R., Lynch, J. P., Sohn, H., Law, K. H., Lynch, J. P.

SPIE-INT SOC OPTICAL ENGINEERING.2016

- **Simulating effects of signage, groups, and crowds on emergent evacuation patterns** *AI & SOCIETY*

Chu, M., Parigi, P., Latombe, J., Law, K. H.

2015; 30 (4): 493–507

- **Cooperative wind turbine control for maximizing wind farm power using sequential convex programming** *ENERGY CONVERSION AND MANAGEMENT*

Park, J., Law, K. H.

2015; 101: 295-316

- **Layout optimization for maximizing wind farm power production using sequential convex programming** *APPLIED ENERGY*

Park, J., Law, K. H.

2015; 151: 320-334

- **Real-Time Energy Prediction for a Milling Machine Tool Using Sparse Gaussian Process Regression**

Park, J., Law, K. H., Bhinge, R., Chen, M., Dornfeld, D., Rachuri, S., Ho, H., Ooi, B. C., Zaki, M. J., Hu, X. H., Haas, L., Kumar, Rachuri, S., et al

IEEE.2015: 1451–60

- **An ontology-based web service framework for construction supply chain collaboration and management** *ENGINEERING CONSTRUCTION AND ARCHITECTURAL MANAGEMENT*

Das, M., Cheng, J. P., Law, K. H.

2015; 22 (5): 551–72

- **An Ontology-Based Approach for Retrieving Information from Disparate Sectors in Government: The Patent System as an Exemplar**

Law, K. H., Taduri, S., Lau, G. T., Kesan, J. P., Bui, T. X., Sprague, R. H.

IEEE COMPUTER SOC.2015: 2096–2105

- **A Bayesian optimization approach for wind farm power maximization**

Park, J., Law, K. H., Peters, K. J.

SPIE-INT SOC OPTICAL ENGINEERING.2015

- **A Data Management Infrastructure for Bridge Monitoring**

Jeong, S., Byun, J., Kim, D., Sohn, H., Bae, I., Law, K. H., Lynch, J. P., Wang, K. W., Sohn, H.

SPIE-INT SOC OPTICAL ENGINEERING.2015

- **A GENERALIZED DATA-DRIVEN ENERGY PREDICTION MODEL WITH UNCERTAINTY FOR A MILLING MACHINE TOOL USING GAUSSIAN PROCESS**

Park, J., Law, K. H., Bhinge, R., Biswas, N., Srinivasan, A., Dornfeld, D. A., Helu, M., Rachuri, S., ASME

AMER SOC MECHANICAL ENGINEERS.2015

- **A NoSQL-based Data Management Infrastructure for Bridge Monitoring Database**

Jeong, S., Zhang, Y., Lynch, J. P., Sohn, H., Law, K. H., Chang, F. K., Kopsaftopoulos, F.

DESTTECH PUBLICATIONS, INC.2015: 1567–74

- **A Data-driven Bayesian Ascent Method for Maximizing Wind Farm Power Production**

Park, J., Kwon, S., Law, K. H., Chang, F. K., Kopsaftopoulos, F.

DESTTECH PUBLICATIONS, INC.2015: 2253–60

- **Power evaluation of flutter-based electromagnetic energy harvesters using computational fluid dynamics simulations** *JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES*

Park, J., Morgenthal, G., Kim, K., Kwon, S., Law, K. H.

2014; 25 (14): 1800-1812

- **Decentralized fault detection and isolation in wireless structural health monitoring systems using analytical redundancy** *ADVANCES IN ENGINEERING SOFTWARE*
Smarsly, K., Law, K. H.
2014; 73: 1–10
- **REGNET: Regulatory information management, compliance and analysis** *GOVERNMENT INFORMATION QUARTERLY*
Law, K. H., Lau, G., Kerrigan, S., Ekstrom, J. A.
2014; 31: S37-S48
- **Advanced Structural Health Monitoring Based on Multiagent Technology** *COMPUTATION FOR HUMANITY: INFORMATION TECHNOLOGY TO ADVANCE SOCIETY*
Smarsly, K., Law, K. H., Zander, J., Mosterman, P. J.
2014: 95–125
- **Data collection and analysis** *ISS LAHTI PILOT CASE STUDY: NEW WAYS OF WORKING*
Fruchter, R., Medlock, L., Law, K. H., Mattila, P., Stahlberg, A., Maatta, H., Nykanen, E., Fruchter, R., Medlock, L., Law, K., Mattila, P., Stahlberg, A., Maatta, et al
2014; 176: 12–71
- **Objectives** *ISS LAHTI PILOT CASE STUDY: NEW WAYS OF WORKING*
Fruchter, R., Medlock, L., Law, K. H., Mattila, P., Stahlberg, A., Maatta, H., Nykanen, E., Fruchter, R., Medlock, L., Law, K., Mattila, P., Stahlberg, A., Maatta, et al
2014; 176: 7+
- **ISS Lahti pilot case study New ways of working Discussion** *ISS LAHTI PILOT CASE STUDY: NEW WAYS OF WORKING*
Fruchter, R., Medlock, L., Law, K. H., Mattila, P., Stahlberg, A., Maatta, H., Nykanen, E., Fruchter, R., Medlock, L., Law, K., Mattila, P., Stahlberg, A., Maatta, et al
2014; 176: 72–74
- **An Intelligent Machine Monitoring System for Energy Prediction Using a Gaussian Process Regression**
Bhinge, R., Biswas, N., Dornfeld, D., Park, J., Law, K. H., Helu, M., Rachuri, S., IEEE, Lin, J., Hu, X. H., Chang, W., Nambiar, R., Aggarwal, C., et al
IEEE.2014: 978–86
- **Computational Framework Incorporating Human Behaviors for Egress Simulations** *JOURNAL OF COMPUTING IN CIVIL ENGINEERING*
Chu, M. L., Law, K.
2013; 27 (6): 699-707
- **A migration-based approach towards resource-efficient wireless structural health monitoring** *ADVANCED ENGINEERING INFORMATICS*
Smarsly, K., Law, K. H.
2013; 27 (4): 625–35
- **An integrated monitoring system for life-cycle management of wind turbines** *SMART STRUCTURES AND SYSTEMS*
Smarsly, K., Hartmann, D., Law, K. H.
2013; 12 (2): 209–33
- **A computational framework for life-cycle management of wind turbines incorporating structural health monitoring** *STRUCTURAL HEALTH MONITORING-AN INTERNATIONAL JOURNAL*
Smarsly, K., Hartmann, D., Law, K. H.
2013; 12 (4): 359–76
- **Electromagnetic energy harvester with repulsively stacked multilayer magnets for low frequency vibrations** *SMART MATERIALS AND STRUCTURES*
Kwon, S., Park, J., Law, K.
2013; 22 (5)
- **An Information Reporting Web Service Framework for Integration of Gate-to-Gate Process-to-Energy Metrics**
Lewis, J., M., Peng, M., Law, K., H.
2013
- **Asynchronous phase shifted electromagnetic energy harvester** *Conference on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*
Park, J., Kwon, S., Law, K. H.

SPIE-INT SOC OPTICAL ENGINEERING.2013

- **Wind Farm Power Maximization Based On A Cooperative Static Game Approach** *Conference on Active and Passive Smart Structures and Integrated Systems*
Park, J., Kwon, S., Law, K. H.
SPIE-INT SOC OPTICAL ENGINEERING.2013
- **An Information Reporting Web Service Framework for Integration of Gate-to-Gate Process-to-Energy Metrics** *IFIP-Working-Group-5.7 International Conference on Advances in Production Management Systems (APMS)*
McGibbney, L. J., Peng, M., Law, K.
SPRINGER-VERLAG BERLIN.2013: 281–288
- **Integration of Energy Information for Product Assembly and Logistics Processes** *IFIP-Working-Group-5.7 International Conference on Advances in Production Management Systems (APMS)*
Feng, S., Kumaraguru, S., Law, K., Ahn, K.
SPRINGER-VERLAG BERLIN.2013: 310–317
- **A Cyberinfrastructure for Integrated Monitoring and Life-Cycle Management of Wind Turbines**
Smarsly, K., Law, K., H., Hartmann, D.
2013
- **A Bayesian Optimization Approach For Wind Farm Monitoring and Power Maximization**
Park, J., Law, K., H.
2013
- **Modeling Energy Information for Integrated Product Assembly Processes and Supply Chains**
Feng, S., C., Kumaraguru, S., Law, K., Ahn, K., Ivezic, N., Kulvantunyou, B.
2013
- **A Migration-based Approach Towards Resource-Efficient Wireless Structural Health Monitoring** *Advanced Engineering Informatics*
Smarsly, K., Law, K., H.
2013; 4 (27): 625–635
- **A Computational Framework for Life-Cycle Management of Wind Turbines incorporating Structural Health Monitoring** *Structural Health Monitoring - An International Journal*
Smarsly, K., Hartmann, D., Law, K., H.
2013; 4 (12): 359-376
- **Wind Farm Power Maximization Based On A Cooperative Static Game Approach**
Park, J., Kwon, S., Law, K., H.
2013
- **Multivariate Analysis and Prediction of Wind Turbine Response to Varying Wind Field Characteristics based on Machine Learning**
Park, J., Smarsly, K., Law, K., H., Hartmann, D.
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- **Advanced Structural Health Monitoring based on Multi-Agent Technology** *Computation for Humanity: Information Technology to Advance Society.*
Smarsly, K., Law, K., H.
edited by Zander, J., Mostermann, P., J.
Boca Raton, FL, USA: Taylor & Francis Group.2013: 95–126
- **An Integrated Monitoring System for Life-Cycle Management of Wind Turbines** *Smart Structures and Systems*
Smarsly, K., Hartmann, D., Law, K., H.
2013; 2 (12): 209-233
- **Asynchronous Phase Shifted Electromagnetic Energy Harvester**
Park, J., Kwon, S., Law, K., H.
2013
- **Application of incremental Gaussian mixture models for characterization of wind field data**
Park, J., Kwon, S., Law, K., H.
2013

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- **Mining information across multiple domains: A case study of application to patent laws and regulations in biotechnology** *GOVERNMENT INFORMATION QUARTERLY*
Yu, H., Taduri, S., Kesan, J., Lau, G., Law, K. H.
2012; 29 (1): S11-S21
 - **Integration of Structural Health and Condition Monitoring into the Life-cycle Management of Wind Turbines**
Smarsly, K., Hartmann, D., Law, K., H.
2012
 - **A Computational Framework for Egress Analysis with Realistic Human Behaviors** *CIFE Technical Report #TR209*
Chu, M., L., Law, K., H., Latombe, J., C.
2012
 - **Heuristic Damage Detection of Plate-Type Structures Using Bayesian Model Updating Approach** *Summery of Technical Papers of Annual Meeting , Kinki Branch, AIJ*
Kurata, M., Lynch, J., P., Law, K., H.
2012
 - **Market-Based Control of Shear Structures Utilizing Magnetorheological Dampers**
Kane, M., B., Lynch, J., P., Law, K., H.
2012
 - **Coupling Wireless Sensor Networks and Autonomous Software for Integrated Soil Moisture Monitoring**
Smarsly, K., Law, K., H.
2012
 - **Towards Life-Cycle Management of Wind Turbines based on Structural Health Monitoring**
Smarsly, K., Law, K., H., Hartmann, D.
2012
 - **Structural Health Monitoring of Wind Turbines Observed by Autonomous Software Components – 2nd Level Monitoring**
Smarsly, K., Hartmann, D., Law, K., H.
2012
 - **REGNET: Regulatory Information Management, Compliance and Analysis**
Law, K., H., Lau, G.
2012
 - **Power Evaluation for Flutter-based Electromagnetic Energy Harvester using CFD Simulations**
Park, J., Morgenthal, G., Kwon, S., Law, K., H.
2012
 - **Modeling Social Groups and Roles in Egress Simulation**
Chu, M., L., Law, K., H.
2012
 - **An Autonomous Landslide Monitoring System based on Wireless Sensor Networks**
Georgieva, K., Smarsly, K., König, M., Law, K., H.
2012
 - **A Patent System Ontology for Facilitating Retrieval of Patent Related Information**
Taduri, S., Lau, G., T., Law, K., H., Kesan, J., P.
2012
 - **Retrieving Information Across Multiple, Related Domains Based on User Query and Feedback: Application to Patent Laws and Regulations** *Government Information Quarterly*
Yu, H., Taduri, S., Kesan, J., P., Lau, G., T., Law, K., H.
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 - **A Multiagent-Based Collaborative Framework for a Self-Managing Structural Health Monitoring System** *ASCE Journal of Computing in Civil Engineering*

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- Smarsly, K., Law, K., H., Hartmann, D.
2012; 1 (26): 76-89
- **Monitoring of Slope Movements coupling Autonomous Wireless Sensor Networks and Web Services**
Smarsly, K., Georgieva, K., König, M., Law, K., H.
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 - **Structural Health Monitoring of Wind Turbines Observed by Autonomous Software Components - 2nd Level Monitoring**
Smarsly, K., Hartmann, D., Law, K., H.
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 - **Bayesian Model Updating Approach for Systematic Damage Detection of Plate Type Structures**
Kurata, M., Lynch, J., P., Law, K., H., Salvino, L., M.
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 - **An Aero-elastic Flutter Based Electromagnetic Energy Harvester with Wind Speed Augmenting Funnel**
Park, J., Kim, K., Kwon, S., Law, K., H.
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 - **Multiagent-Based Collaborative Framework for a Self-Managing Structural Health Monitoring System** *JOURNAL OF COMPUTING IN CIVIL ENGINEERING*
Smarsly, K., Law, K. H., Hartmann, D.
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 - **Hybrid wireless hull monitoring system for naval combat vessels** *STRUCTURE AND INFRASTRUCTURE ENGINEERING*
Swartz, R. A., Zimmerman, A. T., Lynch, J. P., Rosario, J., Brady, T., Salvino, L., Law, K. H.
2012; 8 (7): 621-638
 - **Large-Scale Numerical Modeling in Geotechnical Earthquake Engineering** *INTERNATIONAL JOURNAL OF GEOMECHANICS*
Lu, J., Elgamal, A., Yan, L., Law, K. H., Conte, J. P.
2011; 11 (6): 490-503
 - **In-construction vibration monitoring of a super-tall structure using a long-range wireless sensing system** *SMART STRUCTURES AND SYSTEMS*
Ni, Y. Q., Li, B., Lam, K. H., Zhu, D. P., Wang, Y., Lynch, J. P., Law, K. H.
2011; 7 (2): 83-102
 - **Structural Control with Multi-Subnet Wireless Sensing Feedback: Experimental Validation of Time-Delayed Decentralized H-infinity Control Design** *ADVANCES IN STRUCTURAL ENGINEERING*
Wang, Y., Law, K. H.
2011; 14 (1): 25-39
 - **An Ontology to Integrate Multiple Information Domains in the Patent System**
Taduri, S., Yu, H., Lau, G., Law, K., H., Kesan, J., P.
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 - **Resource-Efficient Wireless Monitoring based on Mobile Agent Migration** *Conference on Health Monitoring of Structural and Biological Systems 2011*
Smarsly, K., Law, K. H., Koenig, M.
SPIE-INT SOC OPTICAL ENGINEERING.2011
 - **Market-Based Control of Shear Structures Utilizing Magnetorheological Dampers**
Kane, M. B., Lynch, J. P., Law, K., IEEE
IEEE.2011: 2498-2503
 - **Retrieval of Patent Documents from Heterogeneous Sources using Ontologies and Similarity Analysis**
Taduri, S., Lau, G. T., Law, K. H., Kesan, J. P., IEEE Comp Soc
IEEE COMPUTER SOC.2011: 538-45
 - **Multi-Subnet Wireless Sensing Feedback for Decentralized H-2 Control with Information Overlapping**
Wang, Y., Law, K. H., Loh, C., Huang, S., Lu, K., Lin, P., IEEE
IEEE.2011: 3104-9

- **WEB SERVICES IN. CIVIL AND STRUCTURAL ENGINEERING SIMULATIONS**
Law, K. H., Li, J., Lei, Y., Wu, Z., Liang, R.
SOUTHEAST UNIV PRESS.2011: 71–82

- **Retrieval of Patent Documents from Heterogeneous Sources using Ontologies and Similarity Analysis**
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- **Web Services in Civil and Structural Engineering Simulations**
Law, K., H.
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- **Wireless Sensor Networks in Smart Structural Technologies** *Recent Advances in Wireless Communications and Networks, Chapter 19*
Wang, Y., Law, K., H.
edited by Lin, J.
InTech.2011: 405–434

- **Decentralized H2 Controller Design for Civil Structures through Double Homotopy Transformation**
Qu, C., Wang, Y., Law, K., H., Li, H.
2011

- **REGNET: Regulatory Information Management, Compliance and Analysis**
Law, K., H., Lau, G.
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- **Multi-Subnet Wireless Sensing Feedback for Decentralized H2 Control with Information Overlapping**
Wang, Y., Law, K., H., Loh, C., H., Juang, S., K., Lu, K., -C., Lin, P., -Y.
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- **Incorporating Social Behaviors in Egress Simulation**
Chu, M., L., Pan, X., Law, K., H.
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- **Implementing a Multiagent-Based Self-Managing Structural Health Monitoring System on a Wind Turbine**
Smarsly, K., Law, K., H., Hartmann, D.
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- **Coupling Sensor-Based Structural Health Monitoring with Finite Element Model Updating for Probabilistic Lifetime Estimation of Wind Energy Converter Structures**
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- **Resource-Efficient Wireless Monitoring based on Mobile Agent Migration** *SPIE. Smart Structures/NDE 2011.*
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- **A Web Service Framework for Environmental and Carbon Footprint Monitoring in Construction Supply Chains** *Journal of Civil Engineering and Architecture*
Cheng, J., C. P., Law, K., H.
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