

# Stanford

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## Kincho Law

Professor of Civil and Environmental Engineering

### CONTACT INFORMATION

- **Administrator**

Kim Vonner - Administrative Associate

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### Bio

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#### 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

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#### PROJECTS

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

## Teaching

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### COURSES

#### 2017-18

- Defining Smart Cities: Visions of Urbanism for the 21st Century: CEE 125, CEE 225, URBANST 174 (Aut)
- Finite Element Methods in Structural Dynamics: CEE 284 (Aut)
- Structural Dynamics: CEE 283 (Win)

#### 2016-17

- Defining Smart Cities: Visions of Urbanism for the 21st Century: CEE 125, CEE 225, URBANST 174 (Aut)
- Design of Steel Structures: CEE 181 (Aut)
- Finite Element Methods in Structural Dynamics: CEE 284 (Aut)
- Structural Dynamics: CEE 283 (Win)

#### 2015-16

- Defining Smart Cities: Visions of Urbanism for the 21st Century: CEE 125, CEE 225, URBANST 174 (Aut)
- Design of Steel Structures: CEE 181 (Aut)
- Finite Element Methods in Structural Dynamics: CEE 284 (Aut)
- Structural Dynamics: CEE 283 (Win)

#### 2014-15

- Design of Steel Structures: CEE 181 (Aut)
- Finite Element Methods in Structural Dynamics: CEE 284 (Spr)
- Structural Dynamics: CEE 283 (Win)

## Publications

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### PUBLICATIONS

- **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
- **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.  
2013
- **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
- **An Aero-elastic Flutter Based Electromagnetic Energy Harvester with Wind Speed Augmenting Funnel**  
Park, J., Kim, K., Kwon, S., Law, K., H.  
2012
- **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.  
2012; 29 (1): S11-S21
- **A Multiagent-Based Collaborative Framework for a Self-Managing Structural Health Monitoring System** *ASCE Journal of Computing in Civil Engineering*  
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.  
2012
- **Structural Health Monitoring of Wind Turbines Observed by Autonomous Software Components - 2nd Level Monitoring**  
Smarsly, K., Hartmann, D., Law, K., H.  
2012
- **Bayesian Model Updating Approach for Systematic Damage Detection of Plate Type Structures**  
Kurata, M., Lynch, J., P., Law, K., H., Salvino, L., M.  
2012
- **An Ontology to Integrate Multiple Information Domains in the Patent System**  
Taduri, S., Yu, H., Lau, G., Law, K., H., Kesan, J., P.  
2011
- **Retrieval of Patent Documents from Heterogeneous Sources using Ontologies and Similarity Analysis**  
Taduri, S., Lau, G., T., Law, K., H., Kesan, J., P.  
2011
- **Web Services in Civil and Structural Engineering Simulations**  
Law, K., H.  
2011
- **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.  
2011
- **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.  
2011
- **Incorporating Social Behaviors in Egress Simulation**  
Chu, M., L., Pan, X., Law, K., H.  
2011
- **Implementing a Multiagent-Based Self-Managing Structural Health Monitoring System on a Wind Turbine**  
Smarsly, K., Law, K., H., Hartmann, D.  
2011
- **Coupling Sensor-Based Structural Health Monitoring with Finite Element Model Updating for Probabilistic Lifetime Estimation of Wind Energy Converter Structures**  
Hartmann, D., Smarsly, K., Law, K., H.  
2011
- **Resource-Efficient Wireless Monitoring based on Mobile Agent Migration** *SPIE. Smart Structures/NDE 2011.*  
Smarsly, K., Law, K., H., König, M.  
2011
- **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.  
2011; 1 (5): 1-12
- **Developing an Ontology for the U.S. Patent System**  
Taduri, S., Lau, G., Law, K., H., Yu, H., Kesan, J., P.  
2011
- **An Ontology-Based Interactive Tool to Search Documents in the U.S. Patent System**  
Taduri, S., Lau, G., Law, K., H., Yu, H., Kesan, J., P.  
2011
- **Developing a Comprehensive Patent Related Information Retrieval Tool** *Journal of Theoretical and Applied Electronic Commerce Research (JTAER)*  
Taduri, S., Yu, H., Lau, G., Law, K., H., Kesan, J., P.  
2011; 2 (6): 1-16
- **Implementation of a multiagent-based paradigm for decentralized real-time structural health monitoring**  
Smarsly, K., Law, K., H., Hartmann, D.  
2011
- **Autonomous Structural Condition Monitoring based on Dynamic Code Migration and Cooperative Information Processing in Wireless Sensor Networks**  
Smarsly, K., Law, K., H., König, M.  
2011
- **Application of the MINOE Regulatory Analysis Framework: Case Studies**  
Ekstrom, J., A., Lau, G., Law, K., H., Hardy, M.  
2011
- **A Multi-Agent Based Approach to Pedestrian Simulation** *Passenger Terminal World*  
Pan, X., Law, K., H.  
2010: 46-52
- **Web Services in Architectural and Civil Engineering**

Law, K., H., Cheng, J.C., P., Han, C., S.  
2010

- **MINOE: A Software to Evaluate Ocean Management in the Context of Ecosystems** *Coastal Management*  
Ekstrom, J., Lau, G., Spiteri, D., Cheng, J.C., P., Law, K.  
2010; 5 (38): 457- 473
- **Web-enabled Model-based CAD for Design and Construction**  
Cheng, J. C., P., Zhang, Y., Han, C., S., Kumar, B., Law, K., H.  
2010
- **Fatigue Life Monitoring of Metallic Structures by Decentralized Rainflow Counting Embedded in a Wireless Sensor Network**  
O'Connor, S., Kim, J., Lynch, J., P., Law, K., H., Salvino, L., M.  
2010
- **A Probabilistic Model Updating Algorithm for Fatigue Damage Detection in Aluminum Hull Structures**  
Kurata, M., Kim, J., Lynch, J., P., Law, K., H., Salvino, L., M.  
2010
- **Fatigue Health Monitoring of Hull Structures using a Model-based Damage Detection Technique** (*abstract*) *Engineering Mechanics 2010*  
Kurata, M., Kim, J., Lynch, J., P., Law, K., H., Salvino, L., M.  
2010
- **Web-enabled Model-based CAD for the Architectural, Engineering and Construction Industry**  
Cheng, J. C., P., Zhang, Y., Han, C., S., Law, K., H.  
2010
- **Retrieving Information Across Multiple Related Domains Based on User Query and Feedback: Application to Patent Laws and Regulations**  
Yu, H., Taduri, S., Kesan, J., P., Lau, G., T., Law, K., H.  
2010
- **Decentralized H2 Control for Civil Structures through Homotopic Transformation**  
Wang, Y., Law, K., H., Loh, C., -H.  
2010
- **Wireless Sensing and Vibration Control of Civil Structures**  
Law, K., H., Wang, Y., Swartz, R., A., Lynch, J., P.  
2010
- **Experimental Validation of Market-Based Control using Wireless Sensor and Actuator Networks**  
Swartz, R., A., Wang, Y., Lynch, J., P., Law, K., H., Loh, C., H.  
2010
- **A Web Service Framework for Environmental and Carbon Footprint Monitoring in Construction Supply Chains**  
Cheng, J. C., P., Law, K., H.  
2010
- **Decentralized Wireless Sensing and Control Using Genetic Algorithm Optimization**  
Wang, Y., Law, K., H., Loh, C., -H., Huang, S., -K., Lu, K., -C., Lin, P., -Y.  
2010
- **Gauging Agency Involvement in Environmental Management using Text Analysis of Laws and Regulations** *IS – A Journal of Law and Policy for the Information Society*  
Ekstrom, J., Lau, G., Cheng, C., P., Spiteri, D., Law, K.  
2010; 2 (6): 189-219
- **A System Dynamic Approach for Simulation of Experience Transfer in the AEC Industry** *ASCE Journal of Management in Engineering*  
Le, M., A. T., Law, K., H.  
2009; 4 (25): 195-203

- **Decentralized Control Strategies with Wireless Sensing and Actuation**  
Law, K., H., Swartz, A., Lynch, J., P.  
2009
- **Monitoring of a High Speed Naval Vessel using a Wireless Hull Monitoring System**  
Lynch, J., P., Swartz, R., A., Zimmerman, A., T., Brady, T., Rosario, J., Salvino, L., W., Law, K. H.  
2009
- **Decentralized H# Control with Experimental Validation using Multi-Subnet Wireless Sensing Feedback**  
Wang, Y., Law, K., H.  
2009
- **Wireless Hull Monitoring Systems for Modal Analysis of Operational Naval Vessels**  
Swartz, R., A., Zimmerman, A., T., Lynch, J., P., Brady, T., Rosario, J., Salvino, L., W., Law, K. H.  
2009
- **Service Oriented and Orchestrated Framework for Supply Chain Integration**  
Cheng, J., C. P., Law, K., H., Jones, A., Sriram, R.  
2009
- **A Portal-based Web Service Framework for Construction Supply Chain Integration and Collaboration**  
Cheng, J., C. P., Law, K., H.  
2009
- **Time-delayed Decentralized H# Controller Design for Civil Structures: a Homotopy Method through Linear Matrix Inequalities**  
Wang, Y., Law, K., H., Lall, S.  
2009
- **Implementation of a closed-loop structural control system using wireless sensor networks** *STRUCTURAL CONTROL & HEALTH MONITORING*  
Lynch, J. P., Wang, Y., Swartz, R. A., Lu, K. C., Loh, C. H.  
2008; 15 (4): 518-539
- **A Distributed Portal-Based Platform for Construction Supply Chain Interoperability**  
Cheng, C., P., Law, K., H., Bjornsson, H.  
2008
- **Decentralized Wireless Structural Sensing and Control with Multiple System Architectures Operating at Different Sampling Frequencies**  
Wang, Y., Swartz, A., Zimmerman, A., Askin, A., Lynch, J., P., Law, K., H.  
2008
- **Utilizing Statistical Semantic Similarity Techniques for Ontology Mapping - with Applications to AEC Standard Models** *Journal of Tsinghua Science and Technology, Elsevier*  
Pan, J., Cheng, C., P., Lau, G., T., Law, K., H.  
2008; 51 (13): 217-222
- **Wireless Sensing and Structural Control Strategies**  
Law, K., H., Swartz, A., Lynch, J., P., Wang, Y.  
2008
- **Utilizing Statistical Semantic Similarity Techniques for Ontology Mapping - with Applications to AEC Standard Models**  
Pan, J., Cheng, C., P., Lau, G., T., Law, K., H.  
2008
- **Domain-Specific Ontology Mapping by Corpus-Based Semantic Similarity**  
Cheng, C., P., Lau, G., T., Pan, J., Law, K., H.  
2008
- **A Collaborative Web Service Platform for AEC Supply Chain**  
Cheng, C., P., Law, K., H., Bjornsson, H.  
2008

- **Regulation Retrieval Using Industry Specific Taxonomies** *Artificial Intelligence and Law*  
Cheng, C., P., Lau, G., T., Law, K., H., Pan, J., Jones, A.  
2008; 3 (16): 277-303
- **Relating Taxonomies with Regulations**  
Cheng, C., P., Pan, J., Lau, G., T., Law, K., H., Jones, A.  
2008
- **A Multi-agent Based Framework for the Simulation of Human and Social Behaviors during Emergency Evacuations** *AI and Society*  
Pan, X., Han, C., S., Dauber, K., Law, K., H.  
2007; 22: 113-132
- **Reliable Information Management in a Low-cost Wireless Structural Monitoring and Control Network**  
Wang, Y., Lynch, J., P., Law, K., H., Loh, C., H., Elgamal, A.  
2007
- **Domain-Specific Ontology Mapping by Corpus-Based Semantic Similarity**  
Cheng, C., P., Lau, G., T., Pan, J., Law, K., H., Jones, A.  
2007
- **Wireless Sensing and Control**  
Wang, Y., Loh, K., J., Lynch, J., P., Law, K., H.  
2007
- **Validation of a Wireless Traffic Vibration Monitoring System for the Voigt Bridge**  
Loh, K., J., Lynch, J., P., Wang, Y., Law, K., H., Fraser, M., Elgamal, A.  
2007
- **Performance Evaluation of Decentralized Wireless Sensing and Control in Civil Structures**  
Wang, Y., Swartz, R., A., Lynch, J., P., Law, K., H., Loh, C., H.  
2007
- **Wireless Sensing Technologies for Civil Infrastructure Monitoring and Management**  
Wang, Y., Lynch, J., P., Law, K., H.  
2007
- **Mapping Regulations to Industry-Specific Taxonomies**  
Cheng, C., P., Lau, G., T., Law, K., H.  
2007
- **Techniques for Simulation of Large-Scale Nonlinear Soil-Structure Systems**  
Elgamal, A., Lu, J., He, L., Law, K., Yang, Z.  
2007
- **Information Driven Wireless Sensing and Control for Civil Structures**  
Wang, Y., Lynch, J., P., Law, K., H.  
2007
- **Decentralized H<sub>∞</sub> Controller Design for Large-scale Wireless Structural Sensing and Control Systems**  
Wang, Y., Lynch, J., P., Law, K., H.  
2007
- **Combination of a Time Reversal Process and a Consecutive Outlier Analysis for Baseline-Free Damage Diagnosis** *Journal of Intelligent Material Systems and Structures*  
Sohn, H., Park, H., W., Law, K., H., Farrar, C., R.  
2007; 4 (18): 335-346
- **A Computational Framework to Simulate Human and Social Behaviors during Emergency Evacuations** *Blume Center News, The John A. Blume Earthquake Engineering Center, Stanford University*  
Pan, X., Han, C., S., Law, K., H., Latombe, J.



2006

- **Vibration Monitoring of the Voigt Bridge using Wired and Wireless Monitoring Systems**  
Wang, Y., Loh, K., J., Lynch, J., P., Fraser, M., Law, K., H., Elgamal, A.  
2006
- **Engineering Simulations with Web-based Services**  
Cheng, J., Cheng, C., P., Thi, M. A., L., Law, K., H.  
2006
- **Decentralized Civil Structural Control using a Real-time Wireless Sensing and Control System**  
Wang, Y., Swartz, R., A., Lynch, J., P., Law, K., H., Lu, K., C., Loh, C.  
2006
- **Wireless Sensing, Actuation and Control -- with Applications to Civil Structures**  
Wang, Y., Lynch, J., P., Law, K., H.  
edited by Smith, I.  
2006
- **Wireless Feedback Structural Control with Embedded Computing**  
Wang, Y., Swartz, A., Lynch, J., P., Law, K., H., Lu, K., C., Loh, C., H.  
2006
- **Using Context-Awareness and Web-Services to Enhance Construction Collaboration**  
Aziz, Z., Anumba, C., Law, K., H.  
2006
- **Structural Health Monitoring and Damage Diagnosis: Based on Embedded Algorithm and Visualized User Interface**  
Lu, K., C., Yang, Y., S., Loh, C., H., Lynch, J., P., Law, K., H.  
2006
- **Locating Related Regulations Using a Comparative Analysis Approach**  
Lau, G., T., Wang, H., Law, K., H.  
2006
- **E-Rulemaking: Needs from the ICT Perspectives**  
Law, K., H., Lau, G., T.  
2006
- **Application of Decentralized Wireless Sensing and Control in Civil Structures**  
Wang, Y., Swartz, R., A., Lynch, J., P., Law, K., H., Lu, K., C., Loh, C., H.  
2006
- **A Computational Framework for the Simulation of Human and Social Behaviors during Emergency Evacuations**  
Pan, X., Han, C., S., Law, K., H., Latombe, J.  
2006
- **Human and Social Behavior in Computational Modeling and Analysis of Egress** *Automation in Construction*  
Pan, X., Han, C., S., Dauber, K., Law, K., H.  
2006; 4 (15): 448-461
- **A Prototype Study on Electronic-Rulemaking** *Encyclopedia of Digital Government*  
Lau, G., T., Law, K., H.  
2006
- **Decentralized Real-time Velocity Feedback Control of Structures using Wireless Sensors**  
Wang, Y., Swartz, R., A., Lynch, J., P., Law, K., H., Lu, K., C., Loh, C., H.  
2006
- **A Relatedness Analysis Tool for Comparing Drafted Regulations and the Associated Public Comments** *Journal of Law and Policy for the Information Society*  
Lau, G., T., Law, K., H., Wiederhold, G.

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2005; 1 (1): 95-110

- **Wireless Structural Sensors Using Reliable Communication Protocols for Data Acquisition and Interrogation**  
Wang, Y., Lynch, J., P., Law, K., H.  
2005
- **Data Retrieval Tools: Test Plan** *NEESit Technical Report*  
Peng, J., Law, K., H.  
2005
- **A Regulation-Centric, Logic-Based Compliance Assistance Framework** *Journal of Computing in Civil Engineering, ASCE*  
Kerrigan, S., L., Law, K., H.  
2005; 1 (19): 1-15
- **Validation of an Integrated Network System for Real-Time Wireless Monitoring of Civil Structures**  
Wang, Y., Lynch, J., P., Law, K., H.  
2005
- **Legal Information Retrieval and Application to E-Rulemaking**  
Lau, G., T., Law, K., H., Wiederhold., G.  
2005
- **A Multi-agent Based Simulation Framework for the Study of Human and Social Behavior in Egress Analysis**  
Pan, X., Han, C., S., Law., K., H.  
2005
- **Data Retrieval Tools: Software Design Specification** *NEESit Technical Report*  
Peng, J., Law, K., H.  
2005
- **Validation of Large-Scale Wireless Structural Monitoring System on the Geumdang Bridge**  
Lynch, J., P., Wang, Y., Law, K., H., Yi, J., H., Lee, C., G., Yun, C., B.  
2005
- **Integrating Engineering Web Services with Distributed Data Flows and Mobile Classes**  
Liu, D., Peng, J., Law, K., H.  
2005
- **Instantaneous Online Monitoring of Unmanned Aerial Vehicles without Baseline Signals**  
Sohn, H., Park, H., W., Law, K., H., Farrar., C., R.  
2005
- **Design of a Low-Power Wireless Structural Monitoring System for Collaborative Computational Algorithms**  
Wang, Y., Lynch, J., P., Law, K., H.  
2005
- **Human and Social Behavior in Computational Modeling and Analysis of Egress**  
Pan, X., Han, C., S., Dauber, K., Law., K., H.  
2005
- **A Relatedness Analysis Approach for Regulation Comparison and E-Rulemaking Applications**  
Lau, G., T., Wang, H., Law, K., H., Wiederhold., G.  
2005
- **A Multi-agent Based Framework for the Simulation of Human and Social Behaviors during Emergency Evacuations** *Social Intelligence Design, Stanford University*  
Pan, X., Han, C., S., Dauber, K., Law, K., H.  
2005
- **Validation of Large-Scale Wireless Structural Monitoring System on the Geumdang Bridge**  
Lynch, J., P., Wang, Y., Law, K., H., Yi, J., H., Lee, C., G., Yun, C., B.

2005

- **Reference Data Models for Supporting the Network for Earthquake Engineering Simulation (NEES)**

Peng, J., Law, K., H.

2005

- **Computational Modeling of Nonlinear Soil-Structure Interaction on Parallel Computers**

Lu, J., He, L., Yang, Z., Peng, J., Elgamal, A., W., Law, K., H.

2004

- **Online Collaboration of Project Management Applications**

Cheng, J., Law, K., H., Kumar, B.

2004

- **Summary Report on NEESgrid's Data Curation Summit** *Technical Report NEESgrid-2004-43*

Law, K., H.

2004

- **Overview of NEES Data and Metadata Models**

Bardet, J., P., Law, K., H., Peng, J., Swift, J.

2004

- **Design and Development of Power-Efficient Wireless Sensing Units for Structural Health Monitoring Applications**

Lynch, J., P., Wang, Y., Sundararajan, A., Law, K., H., Kiremidjian, A., S.

2004

- **Reference NEESgrid Data Model** *Technical Report NEESgrid-2004-40*

Peng, J., Law, K., H.

2004

- **Internet-Enabled Distributed Engineering (Web) Services**

Peng, J., Liu, D., Cheng, J., Han, C., S., Law, K., H.

2004

- **Simulation of Earthquake Liquefaction Response on Parallel Computers**

Peng, J., Lu, J., Law, K., H., Elgamal, A., W.

2004

- **An Information Infrastructure for Government Regulation Analysis and Compliance Assistance**

Lau, G., T., Kerrigan, S., Wang, H., Law, K., H., Wiederhold, G.

2004

- **ParCYCLIC: Finite Element Modeling of Earthquake Liquefaction Response on Parallel Computers** *International Journal for Numerical and Analytical Methods in Geomechanics*

Peng, J., Lu, J., Law, K., H., Elgamal, A., W.

2004; 12 (28): 1207-1232

- **Engineering Process Coordination Based on A Service Event Notification Model**

Cao, J., Wang, J., Zhang, S., Li, M., Law, K., H.

2004

- **Damage detection in composite plates by using time reversal active sensing**

Park, H., W., Sohn, H., Law, K., H.

2004

- **An Information Infrastructure for Comparing Accessibility Regulations and Related Information from Multiple Sources**

Lau, G., T., Law, K., H.

2004

- **An E-Government Information Architecture for Regulation Analysis and Compliance Assistance**

Lau, G., T., Kerrigan, S., Law, K., H., Wiederhold, G.

2004

- **A Software Infrastructure for Government Regulation Analysis and Compliance Assistance**  
Lau, G., T., Kerrigan, S., Wang, H., Law, K., H., Wiederhold, G.  
2004
- **A Simulation Access Language and Framework For Project Management Applications**  
Cheng, J., Lau, G., Law, K., H.  
2004
- **A Modular Framework for Earthquake Engineering Analysis and Simulations**  
Peng, J., McKenna, F., Law, K., H.  
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- **Validity and Usability of the NEESgrid Reference Data Model** *Technical Report NEESgrid-2004-44*  
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