

Stanford



Kincho Law

Professor of Civil and Environmental Engineering

CONTACT INFORMATION

- **Administrator**

Kim Vonner - Administrative Associate

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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

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

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_∞ 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.

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.
2004
- **Validity and Usability of the NEESgrid Reference Data Model** *Technical Report NEESgrid-2004-44*
Peng, J., Law, K., H.
2004
- **Reference NEESgrid Data Model for Shake Table Experiment** *NEESgrid Technical Report*
Peng, J., Law, K., H.
2004
- **Piezoelectric Structural Excitation using a Wireless Active Sensing Unit** *International Modal Analysis Conference XXII, Dearborn, MI*
Lynch, J., P., Sundararajan, A., Law, K., H., Sohn, H., Farrar, C., R.
2004
- **Parallel Finite Element Modeling of Earthquake Ground Response and Liquefaction** *Journal of Earthquake Engineering and Engineering Vibration*
Lu, J., Peng, J., Elgamal, A., W., Yang, Z., Law, K., H.
2004; 1 (3): 23-37
- **A Brief Review of Data Models for NEESgrid** *Technical Report NEESgrid-2004-01*
Peng, J., Law, K., H.
2004
- **Wireless Sensing for Structural Health Monitoring of Civil Structures**
Lynch, J., P., Wang, Y., Sundararajan, A., Law, K., H., Kiemidjian, A., S.
2004
- **Efficient Integration of Web Services with Distributed Data Flow and Active Mediation**
Liu, D., Peng, J., Law, K., H., Wiederhold, G.
2004
- **Design of a Wireless Active Sensing Unit for Structural Health Monitoring**
Lynch, J., P., Sundararajan, A., Law, K., H., Sohn, H., Farrar, C., R.
2004
- **Embedding Actuation Functionalities in a Wireless Structural Health Monitoring System**
Lynch, J., P., Sundararajan, A., Sohn, H., Park, G., Farrar, C., Law, K., H.
2004
- **Distributed Information Organization and Management Framework for Regulation Compliance**
Wang, J., Leckie, J., O., Law, K., H., Wiederhold, G.
2004
- **Minimizing Misclassification of Damage Using Extreme Value Statistics** *US-Korea Joint Seminar/Workshop on Smart Structures Technologies, Sheraton Walker Hill Hotel in Seoul, Korea*
Sohn, H., Park, H., W., Law, K., H., Farrar, C., R.
2004
- **Internet-Enabled Model for Nonlinear Dynamic Structural Simulations**
Peng, J., Lau, G., Law, K., H.

2004

- **Design of Wireless Sensor Units with Embedded Statistical Time-Series Damage Detection Algorithms for Structural Health Monitoring** *Caltrans/UCSD Workshop on Structural Health Monitoring and Diagnostics of Bridge Infrastructure, San Diego, CA, USA*
Lynch, J., P., Sundararajan, A., Law, K., H., Kiremidjian, A., S., Carryer, E.
2003
- **Power-Efficient Data Management for a Wireless Structural Monitoring System**
Lynch, J., P., Sundararajan, A., Law, K., H., Kiremidjian, A., S., Carryer, E.
2003
- **Integrating Project Management Applications as Web Services**
Cheng, J., Law, K., H., Kumar, B.
2003
- **A Software Framework for Internet-Enabled Nonlinear Dynamic Structural Analysis**
Peng, J., Law, K., H.
2003
- **An Internet-Enabled Software Framework for the Collaborative Development of a Structural Analysis Program** *Technical report #TR141, the John A. Blume Earthquake Engineering Center, Stanford, CA*
Peng, J., Law, K., H.
2003
- **A Framework for Regulation Comparison with Application to Accessibility Codes**
Lau, G., T., Law, K., H., Wiederhold, G.
2003
- **Process Specification Language For Project Scheduling Information Exchange** *International Journal of IT in Architecture, Engineering and Construction*
Cheng, J., Gruninger, M., Sriram, R., D., Law, K., H.
2003; 4 (1): 307-328
- **Regulatory Information Management and Compliance Assistance**
Kerrigan, S., Heenan, C., Wang, H., Law, K., H., Wiederhold, G.
2003
- **A Regulatory Information Infrastructure with Application to Accessibility Codes**
Lau, G., T., Law, K., H., Kumar, B.
2003
- **Logic-Based Regulation Compliance-Assistance**
Kerrigan, S., Law, K., H.
2003
- **Field Validation of a Wireless Structural Monitoring System on the Alamosa Canyon Bridge**
Lynch, J., P., Sundararajan, A., Law, K., H., Kiremidjian, A., S., Carryer, E., Sohn, H.
2003
- **Emergence of Distributed Engineering Web Services**
Peng, J., Liu, D., Cheng, J., Han, C., S., Law, K., H.
2003
- **An Information Infrastructure for Government Regulations**
Lau, G., T., Kerrigan, S., Law, K., H.
2003
- **Active Mediation Technology for Service Composition**
Liu, D., Sample, N., Peng, J., Law, K., H., Wiederhold, G.
2003

- **Software Framework for Collaborative Development of Nonlinear Dynamic Analysis Program** *Pacific Earthquake Engineering Research Center, Technical Report #2003/02, Berkeley, CA*
Peng, J., Law, K., H.
2003
- **Design of a Piezoresistive MEMS-Based Accelerometer for Integration with a Wireless Sensing Unit for Structural Monitoring** *Journal of Aerospace Engineering, ASCE*
Lynch, J., P., Partridge, A., Law, K., H., Kenny, T., W., Kiremidjian, A., S., Carryer, E.
2003; 3 (16): 108-114
- **An Engineering Information Service Infrastructure for Ubiquitous Computing** *ASCE Journal of Computing in Civil Engineering*
Liu, D., Cheng, J., Law, K., H., Wiederhold, G., Sriram, R., D.
2003; 4 (17): 219-229
- **Similarity Analysis on Government Regulations**
Lau, G., T., Law, K., H., Wiederhold, G.
2003
- **Power-Efficient Wireless Structural Monitoring with Local Data Processing**
Lynch, J., P., Sundararajan, A., Law, K., H., Kiremidjian, A., S., Carryer, E.
2003
- **Simulation of Earthquake Liquefaction Response on Parallel Computers** *Blume Earthquake Engineering Research Center News Letter, Stanford University, Stanford, CA*
Peng, J., Lu, J., Law, K., H., Elgamal, A.
2003
- **New Opportunities for Structural Monitoring: Wireless Active Sensing**
Lynch, J., P., Sundararajan, A., Law, K., H., Sohn, H., Farrar, C.
2003
- **Embedding Algorithms in a Wireless Structural Monitoring System**
Lynch, J., P., Sundararajan, A., Law, K., H., Kiremidjian, A., S.
2002
- **Energy Market-Based Control for Linear Civil Structures**
Lynch, J., P., Law, K., H.
2002
- **A Wireless Modular Monitoring System for Civil Structures**
Lynch, J., P., Law, K., H., Kiremidjian, A., S., Kenny, T., W., Carryer, E.
2002
- **Decentralized Control Techniques for Large-Scale Civil Structural Systems**
Lynch, J., P., Law, K., H.
2002
- **Analysis of Integration Models for Service Composition**
Liu, D., Law, K., H., Wiederhold, G.
2002
- **Validation of a Wireless Modular Monitoring System for Structures**
Lynch, J., P., Law, K., H., Kiremidjian, A., S., Carryer, E., Kenny, T., W., Partridge, A.
2002
- **Regnet: An Infrastructure for Regulatory Information Management and Compliance Assistance**
Kerrigan, S., Heenan, C., Law, K., H.
2002
- **Computational Core Design of a Wireless Structural Health Monitoring System**

- Lynch, J., P., Sundararajan, A., Law, K., H., Kiremidjian, A., S.
2002
- **An Internet-Enabled Software Framework for Collaborative Development of Structural Analysis Program**
Peng, J., Law, K., H.
2002
 - **An Energy Framework for Decentralized Market-Based Structural Control**
Lynch, J., P., Law, K., H.
2002
 - **Compliance Analysis for Disabled Access** *Advances in Digital Government Technology, Human Factors, and Policy.*
Han, C., Kunz, J., C., Law, K., H.
edited by McIver Jr, William, J., Elmagarmid, Ahmed, K.
Kluwer, Boston, MA.2002: 1
 - **Decentralization of Wireless Monitoring and Control Technologies for Smart Civil Structures** *John A. Blume Technical Report #140, Stanford University, Stanford, CA*
Lynch, J., P., Law, K., H.
2002
 - **Using Process Specification Language for Project Information Exchange**
Cheng, J., Law, K., H.
2002
 - **Ontology Mapping Between PSL and XML-Based Standards For Project Scheduling**
Cheng, J., Trivedi, P., Law, K., H.
2002
 - **Issues in Wireless Structural Damage Monitoring Technologies**
Lynch, J., P., Kiremidjian, A., S., Law, K., H., Kenny, T., W., Carryer, E.
2002
 - **Ubiquitous Computing Environment for Project Management Services**
Liu, D., Law, K., H., Wiederhold, G.
2002
 - **Data-flow Distribution in FICAS Service Composition Infrastructure**
Liu, D., Law, K., H., Wiederhold, G.
2002
 - **Laboratory and Field Validation of a Wireless Sensing Unit Design for Structural Monitoring**
Lynch, J., P., Law, K., H., Kiremidjian, A., S., Carryer, C., Ed
2002
 - **The Development of a Wireless Modular Health Monitoring System for Civil Structures**
Law, K., H., Lynch, Jerome, P., Straser, Erik, G., Kiremidjian, Anne, S., Kenny, Tom, W.
2001
 - **The Design of a Wireless Sensing Unit for Structural Monitoring**
Law, K., H., Lynch, Jerome, P., Kiremidjian, Anne, S., Kenny, Tom, W., Carryer, E.
2001
 - **Information Infrastructure for Regulation Management and Compliance Checking**
Law, K., H., Kerrigan, S., Lau, G., Zhou, L., Wiederhold, G.
2001
 - **Formulation of a Market-Based Approach for Structural Control**
Law, K., H., Lynch, Jerome, P.
2001

- **CHAOS: An Active Security Mediation System**
Law, K., H., Liu, D., Wiederhold, G.
2000
- **A Framework for Health Monitoring of Structures**
Law, K., H., Straser, G. E., Sohn, H., Kiremidjian, S. A.
2000
- **A Distributed Object Component-based Approach to Large-scale Engineering Systems and an Example Component Using Motion Planning Techniques for Disabled Access Usability Analysis**
Law, K., H., Han, C., S., Kunz, J., C.
2000
- **A Market-Based Control Solution for Semi-Active Structural Control**
Law, K., H., Lynch, J., P.
2000
- **Framework for Collaborative Structural Analysis Software Development**
Law, K., H., Peng, J.
2000
- **An Integrated Model for the Representation, Processing, and Documentation of Design Standards** *Journal of Civil Engineering Information Systems, (Japan)*
Law, K., H., Yabuki, N.
2000; 9: 161-168
- **An Open Source Model for Collaborative Development of Finite Element Program**
Law, K., H., Peng, J., McKenna, F., Fenves, G., L.
2000
- **A Design Generation System for Steel Connections using XML and Case-Based Reasoning** *Journal of Civil Engineering Information Systems*
Law, K., H., Yabuki, N., Miyajima, Y., Komuro, M.
2000; 9: 91-100
- **An Internet-Based Distributed Building Design Service Framework.**
Law, K., H., Han, C., S., Kunz, J.
1999
- **Flexibility Based Extraction of Ritz Vectors and Their Application to Damage Diagnosis**
Law, K., H., Sohn, H.
1999
- **An Internet-Based Distributed Service Architecture**
Law, K., H., Han, C., S., Kunz, J., C.
1999
- **Application of Ritz Vectors to Damage Detection for a Grid-type Bridge Model**
Law, K., H., Sohn, H.
1999
- **Statistical Analysis of Bridge Damage Data from the 1994 Northridge, CA Earthquake** *Earthquake Spectra*
Law, K., H., Basoz, N., I., Kiremidjian, A., S., King, S., A.
1999; 1 (15): 25-53
- **The Development and Application of a Damage Detection Toolbox for Matlab**
Law, K., H., Lynch, J., P., Sohn, H.
1999
- **Extraction of Ritz Vectors and Their Application to Structural Damage Diagnosis**
Law, K., H., Sohn, H.
1999

- **A Bayesian Probabilistic Damage Detection Using Load-Dependent Ritz Vectors**
Law, K., H., Sohn, H.
1998
- **Some Personal Experience in Computer Aided Engineering Research**
Law, K., H., Ascona, S.
edited by Smith, I.
1998
- **Internet-Based Computer-Aided Design: Leveraging Product Model, Distributed Object, and World Wide Web Standards**
Law, K., H., Han, C., S., Kunz, J., C.
1998
- **A Hybrid Prescriptive/Performance Based Approach to Automated Building Code Checking**
Law, K., H., Han, C., S., Kunz, J., C.
1998
- **Bridge Damage Characteristics in the 1994 Northridge Earthquake**
Law, K., H., King, S., A., Basoz, N., I., Kiremidjian, A., S.
1998
- **Adaptive Modeling of Environmental Effects in Modal Parameters for Damage Detection in Civil Structures**
Law, K., H., Sohn, H., Dzwonczyk, M., Straser, E., Meng, T., Kiremidjian, A., S.
1998
- **Application of Load-Dependent Ritz Vectors to Probabilistic Damage Detection**
Law, K., H., Sohn, H.
1998
- **Numerical Methods for Structural Dynamic Re-Analysis**
Law, K., H., Golub, G., H., Zhang, T.
1997
- **Development of a Cyber Construction Management Framework**
Law, K., H., Nishigaki, S., Maruyama, Y., Koga, K., Tsukada, K., Tamaki, K.
1997
- **Methodologies for Evaluating the Socio-Economic Consequences of Large Earthquakes** *Earthquake Spectra*
King, S., A., Kiremidjian, A., S., Basoz, N., Law, K., H., Vucetic, M., Doroudian, M.
1997; 4 (13): 565-584
- **A Model for Software Interoperation in Engineering Enterprise Integration**
Law, K., H., Howie, C., T., Kunz, J., C.
1997
- **Making Automated Building Code Checking a Reality** *Facility Management Journal*
Law, K., H., Han, C., S., Kunz, J.
1997: 22-28
- **A Distributed Adaptive Program for Fluid-Structure Problems**
Law, K., H., Santiago, E., De
1997
- **Cyber Construction Management (C2M)**
Law, K., H., Nishigaki, S., Maruyama, Y., Kano, N.
1997
- **Structural damage monitoring for civil structures** *International Workshop on Structural Health Monitoring*
Kiremidjian, A. S., Straser, E. G., Meng, T., Law, K., Soon, H.
TECHNOMIC PUBL CO INC.1997: 371-382

- **An Interactive Computer Assisted System for Conceptual Design of Steel Structures** *Computers and Structures*
Law, K., H., Fuyama, H., Krawinkler, H.
1997; 4 (63): 647-662
- **Damage Assessment of Transportation Systems in the 1994 Northridge, CA Earthquake**
Basoz, N., Kiremidjian, A., S., King, S., A., Law, K., H.
1996
- **Earthquake Hazard Assessment Through Geographic Information Systems**
Law, K., H., King, S., A., Kiremidjian, A., S.
1996
- **Bridge Damage and Its Consequences in the 1994 Northridge Earthquake**
Basoz, N., Kiremidjian, A., S., King, S., A., Law, K., H.
1996
- **Working with Diagrams and Drawings**
Law, K., H., Iwasaki, Y., Tessler, S., Goto, H., Binford, T., Chen, T., L.
1996
- **A Configuration and Version Management Model for Collaborative Design**
Law, K., H., Krishnamurthy, K.
1996
- **Utilization of GIS and Network Analysis for Earthquake Damage Assessment of Transportation Systems**
Law, K., H., Basoz, N., King, S., Kiremidjian, A.
1996
- **Geographic Information Systems for Emergency Response Management of Transportation Systems**
Law, K., H., Kiremidjian, A., Basoz, N., King, S., A.
1996
- **An Implementation of Finite Element Method on Distributed Workstations**
Law, K., H., Santiago, E. D.
1996
- **A Data Management Model for Change Control in Collaborative Design Environment**
Law, K., H., Krishnamurthy, K.
1996
- **Use of GIS for seismic hazard mitigation study** *2nd Congress on Computing in Civil Engineering (II-CCCE)*
King, S. A., BASOZ, N., Kiremidjian, A. S., Law, K. H.
AMER SOC CIVIL ENGINEERS.1995: 1039-1046
- **Application of the HyperDocument Model to Design**
Law, K., H., Yabuki, N.
1995
- **Qualitative Structural Analysis Using Diagrammatic Reasoning**
Law, K., H., Tessler, S., Iwasaki, Y.
1995
- **Advances in Numerical Methods for Convective Hydrodynamic Model of Semiconductor Devices**
Law, K., H., Aluru, N., R., Dutton, R., W.
1995
- **Change Management for Collaborative Engineering**
Law, K., H., Krishnamurthy, K.
1995

- **Computer Representations of Design Standards and Building Codes: A U.S. Perspective** *International Journal of Construction Information Technology*
Law, K., H., Fenves, S., J., Garrett Jr., J., H., Kiliccote, H., Reed, K., A.
1995; 1 (3): 13-34
- **Earthquake Damage and Loss Estimation Through Geographic Information Systems**
Law, K., H., A, King, S., S, Kiremidjian, A., N, B.
1995
- **Consequences of Damage to Bridges in the Northridge Earthquake**
Law, K., H., Kiremidjian, A., Basoz, N., King, S.
1995
- **Version Management in a CAD Paradigm**
Law, K., H., Krishnamurthy, K.
1995
- **CUREe/Kajima Joint Development of a GIS-Based Earthquake Damage and Loss Estimation Methodology**
Law, K., H., S, Kiremidjian, A., A, King, S., K, M., M, M., N, B.
1995
- **An Implementation of Finite Element Method on Distributed Workstations** *Third US National Congress on Computational Mechanics, Dallas, Texas*
Law, K., H., Santiago, E., De, Aluru, N., R.
1995
- **Parallel and Stabilized Finite Element Methods for Submicron Semiconductor Device Simulations**
Law, K., H., Aluru, N., R., Pinsky, P., M., Dutton, R., W.
1995
- **Configuration Management in a CAD Paradigm**
Law, K., H., Krishnamurthy, K.
1995
- **Analysis of Highway Networks for Emergency Response and Economic Recovery**
Law, K., H., N, B., S, Kiremidjian, A.
1995
- **An Integrated Approach to Design Standards Representation, Processing and Documentation** *International Journal of Construction Information Technology*
Law, K., H., Yabuki, N.
1995; 1 (3): 91-111
- **Numerical Methods for Comprehensive Semiconductor Device Simulations** *Advances and Trends in Computational and Applied Mathematics, Austin, Texas*
Law, K., H., Aluru, N., R., Pinsky, P., M., Dutton, R., W.
1995
- **A Methodology for Parallelizing PDE Solvers: Applications to Semiconductor Device Simulation**
Law, K., H., Herndon, B., Aluru, N., Raefsky, A., Goossens, R., G. J., Dutton, R.
1995
- **FIESTA-HD: A Parallel Finite Element Program for Hydrodynamic Device Simulation** *Parallel CFD'95, California Institute of Technology, 1995. (also appeared in Parallel Computational Fluid Dynamics, Implementations and Results Using Parallel Computers*
Law, K., H., Aluru, N., R., Raefsky, A., Dutton, R., W.
edited by Ecer, A., Periaux, J., Satofuka, N.
Elsevier Science. 1995: 379-386
- **An Implementation of a Generalized Lanczos Procedure for Structural Dynamic Analysis on Distributed Memory Computers** *Second International Conference on Computational Structures Technology, Athens, Greece, 1994. In Advances in Parallel and Vector Processing for Structural Mechanics*
Law, K., H., Mackay, D., R.
edited by Topping, B., H. V., Papadrakakis, M.
Civil-Comp Press, Edinburgh, UK. 1994: 93-105

- **Numerical Methods for Dynamic Re-Analysis of Structures with Localized Modifications**
Law, K., H., Carey, C., M. M., Mackay, D., R., Golub, G., H.
edited by Papadrakakis, M., Topping, B., H. V.
1994
- **Towards a Formal Model of Version and Configuration Management for Collaborative Engineering** *Engineering Data Management: Integrating the Engineering Enterprise, Eighth Annual Engineering Database Symposium, ASME*
Law, K., H., Krishnamurthy, K.
1994: 21-32
- **Large Scale Engineering Computations on Distributed Memory Parallel Computers and Distributed Workstations**
Law, K., H.
1994
- **Humanware, Human Error, and Hiyari-Hat: a Template of Unsafe Symptoms** *J. of Construction Management and Engineering, ASCE*
Law, K., H., Nishigaki, S., Vavrin, J., Kano, N., Haga, T., Kunz, J., C.
1994; 2 (120): 421-442
- **Drift Control in Moment Resisting Steel Frame Structures** *The Structural Design of Tall Buildings*
Law, K., H., Fuyama, H., Krawinkler, H.
1994; 3: 163-181
- **A Version and Configuration Scheme for Collaborative Engineering** *First Congress on Computing in Civil Engineering, ASCE*
Law, K., H., Krishnamurthy, K.
1994: 2022-2029
- **A Computer-Based Design Support System for Steel Frame Structures** *The Structural Design of Tall Buildings*
Law, K., H., Fuyama, H., Krawinkler, H.
1994; 3: 183-200
- **Safety Problems in On-Site Construction Work Processes**
Law, K., H., Nishigaki, S.
1994
- **Qualitative Structural Analysis using Diagrammatic Reasoning**
Law, K., H., Tessler, S., Iwasaki, Y.
1993
- **REDRAW - A Diagrammatic Reasoning System for Qualitative Structural Analysis**
Law, K., H., Tessler, S., Iwasaki, Y.
1993
- **Computer Assisted Conceptual Structural Design of Steel Buildings**
Law, K., H., Fuyama, H., Krawinkler, H.
1993
- **QStruc: An Approach for Qualitative Structural Analysis** *Computing Systems in Engineering*
Law, K., H., Fruchter, R., Iwasaki, Y.
1993; 3/4 (4): 147-157
- **Knowledge-Based Creation of an Architectural 3-D Model from 2-D Drawings.**
Law, K., H., Goto, H., Endo, Y., Morimoto, O., Kazama, T.
1993
- **d-Zone Triangulation: A Boundary Refinement Scheme for Quadtree Based Mesh**
Law, K., H., Yang, D., Dutton, R., W.
1993
- **Space-Time Galerkin/Least-Squares Finite Element Formulation for the Hydrodynamic Device Equations**
Law, K., H., Aluru, N., R., Pinsky, P., M., Raefsky, A., Goossens, R.J., G., Dutton, R., W.

1993

- **A Hyper Document Model for Design Standards Documentation** *Journal on Computing in Civil Engineering, ASCE*
Law, K., H., Yabuki, N.
1993; 2 (7): 218-237
- **A Hyper Document Model for Engineering Design Support**
Law, K., H., Yabuki, N.
1992
- **Qualitative Interpretation of Structures**
Law, K., H., Fruchter, R., Iwasaki, Y., Krawinkler, H.
1992
- **An Automated Mesh Refinement Scheme Based on Level-Control Function**
Law, K., H., Yang, D., Dutton, R.
1992
- **An Integrated System for Design Standards Processing**
Law, K., H., Yabuki, N.
1992
- **A Framework for the Documentation, Representation, and Processing of Design Standards**
Law, K., H., Yabuki, N.
1992
- **An Architecture for Managing Design Objects in a Sharable Relational Framework** *International Journal of Systems Automation, Research and Applications*
Law, K., H., Wiederhold, G., Barsalou, T., Siambela, N., Sujansky, W., Zingmund, D.
1991; 1 (1): 47-66
- **A Methodology for Conceptual Structural Design**
Law, K., H., Luth, G., Jain, D., Krawinkler, H.
1991
- **Parallel Preconditioned Conjugate Gradient Methods for Structural Analysis Problems with Multiple Loadings**
Law, K., H., Suarjana, M.
1991
- **Generating Qualitative Models for Structural Engineering Analysis and Design**
Law, K., H., Fruchter, R., Iwasaki, Y.
1991
- **A Parallel Sparse Solution Method for Finite Element Problems**
Law, K., H., Mackay, D., R.
1991
- **View Object Approach for Managing Design/Built Information**
Law, K., H., Scarponcini, P.
1991
- **QStruc: An Approach for Qualitative Structural Analysis**
Law, K., H., Fruchter, R., Iwasaki, Y.
1991
- **A Formal Approach for Managing Building Design Information in a Sharable Relational Framework**
Law, K., H.
1991
- **Generation of Floor Framing Plans for Steel Office Buildings**
Law, K., H., Luth, G., Jain, D., Krawinkler, H.

1991

- **Computing in Civil Engineering Curriculum: Needs and Issues** *Journal of Professional Issues in Engineering, ASCE*
Law, K., H., Rasdorf, W., J., Karamouz, M., Abudayyeh, O., Y.
1990; 2 (116): 128-141
- **PMAPM: An Object Oriented Project Model for A/E/C Process with Multiple Views**
Law, K., H., Ito, K., Levitt, R., E.
1990
- **Managing Design Objects in a Sharable Relational Framework**
Law, K., H., Wiederhold, G., Barsalou, T., Siambela, N., Sujansky, W., Zingmund, D.
1990
- **The Role of Computing in Civil Engineering Education** *Education Forum, ASCE, Las Vegas, Nevada*
Law, K., H., Karamouz, M., Rasdorf, W., Abudayyeh, O.
1990: 337-343
- **A Parallel Implementation of a Substructure-Oriented Subspace Iteration Method**
Law, K., H., Mackay, D., R.
1989
- **Finite Element Computations on a Linear Systolic Array**
Law, K., H., Hammond, Steven, W.
1989
- **On Standard Processing with Predicate Calculus**
Law, K., H., Jain, D., Krawinkler, H.
1989
- **Applying a Semantic Structural Model for Engineering Database Design**
Law, K., H., Barsalou, T.
1989
- **A Parallel Finite Element Method and Its Prototype Implementation on a Hypercube** *Computers and Structures*
Law, K., H., Carter Jr, W., T., Sham, T., L.
1989; 6 (31): 921-934
- **The Role of Computing in Civil Engineering Curriculum**
Law, K., H., Karamouz, M., Rasdorf, W., Abudayyeh, O.
1989
- **Automated Processing of Design Standards** *Journal of Computing in Civil Engineering, ASCE*
Law, K., H., Cronembold, J., R.
1988; 3 (2): 255-273
- **Conceptual Database Design for Engineering Modeling**
Law, K., H., Spooner, D., L.
1988
- **Architecture and Operation of a Systolic Engine for Finite Element Computations**
Law, K., H., Hammond, Steven, W.
1988
- **A Sparse Matrix Solution Representation for Structural Analysis**
Law, K., H.
1988
- **Data Exchange for Collaborating Structural Design Programs** *Journal of Computing in Civil Engineering, ASCE*
Law, K., H., Grubbs, J., H., Leach, L.

1988; 2 (2): 144-159

- **Architecture and Operation of a Systolic Engine for Finite Element Computations** *Computers and Structures*
Law, K., H., Hammond, S., W.
1988; 1-2 (30): 365-374
- **An Integrated System for Structural Modeling, Analysis and Design**
Law, K., H., Wentorf, R., Cronenbold, J., R.
1988
- **Abstraction Database Concepts for Engineering Modeling** *Engineering with Computers*
Law, K., H., Spooner, D., L., Jouaneh, M., K.
1987; 2 (2): 79-94
- **An Intrinsic Approach to Interactive Structural Design** *Structures Congress, ASCE, Orlando, Florida*
Law, K., H., Grubbs, J., H.
1987
- **On the Hidden Line Removal Problem** *Computers and Structures*
Law, K., H., Spillers, W., R.
1987; 4 (26): 709-717
- **An Intrinsic Behavior-Based Model for Interactive Structural Design** *Engineering with Computers*
Law, K., H., Grubbs, J., H., Ackroyd, M., H.
1987; 4 (2): 185-198
- **An Expert System for Inactive Hazardous Waste Site Characterization**
Law, K., H., Zimmie, T., F., Chapman, D., R.
1986
- **Development of a Rule Based Expert System for Characterization of Hazardous Waste Sites**
Law, K., H., Zimmie, T., F., Chapman, D., R.
1986
- **Intrinsic Models for Interactive Structural Design**
Law, K., H., Grubbs, J., H., Ackroyd, M., H.
1986
- **Data Modelling for Building Design**
Law, K., H., Jouaneh, M., K.
1986
- **A Parallel Finite Element Solution Method** *Computers and Structures*
Law, K., H.
1986; 6 (23): 845-858
- **A Node-Addition Model for Symbolic Factorization** *ACM Transaction on Mathematical Software*
Law, K., H., Fenves, S., J.
1986; 1 (12): 37-50
- **Natural Language Processing and Computer Graphics for Engineering Design**
Law, K., H., Wentorf, R.
1986
- **A Natural Language Interpreter for Plate Girder Design** *Engineering with Computers*
Law, K., H., Wentorf, R., Ackroyd, M., H.
1986; 3 (1): 127-147
- **Sparse Matrix Factor Modification in Structural Reanalysis** *International Journal for Numerical Methods in Engineering*
Law, K., H.

1985; 21: 37-63

- **Systolic Arrays for Finite Element Analysis** *Computers and Structures*
Law, K., H.
1985; 1-3 (20): 55-65
- **Systolic Arrays for Finite Element Analysis**
Law, K., H.
1984
- **Relational Model for Computer Analysis and Design**
Law, K., H.
1984
- **Modified Quadtree Mesh Generator and Efficient Adaptive Analysis**
Law, K., H., Shephard, M., S.
1984
- **A Physical Interpretation of Factorization and Factor Modification in Structural Analysis** *the Journal of Franklin Institute*
Law, K., H., Fenves, S., J.
1983; 5 (316): 385-404
- **A Two Step Approach to Finite Element Ordering** *International Journal for Numerical Methods in Engineering*
Law, K., H., Fenves, S., J.
1983; 19: 891-911
- **Sparse Matrices, Graph Theory and Reanalysis**
Law, K., H., Fenves, S., J.
1981
- **Expected Flow in Transportation Network**
Law, K., H., Fenves, S., J.
1979