

Masahiro Kurata



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Nationality:

Japanese

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(As of December, 2018)

EDUCATIONS

PhD. in Civil and Environmental Engineering, Georgia Institute of Technology, Georgia, USA

Completion Date: September 2009, Graduation Date: December 2009

Dissertation: *Strategies for Rapid Seismic Hazard Mitigation for Sustainable Infrastructure Systems*

Advisors: Dr. Reginald DesRoches and Dr. Roberto T. Leon

Master of Science, Georgia Institute of Technology, Georgia, USA

Date: December 2007

Master of Architectural System, Kyoto University, Kyoto, Japan

Date: March 2005

Thesis: *Test and Analysis of Steel Column Bases for Assessment of Earthquake Responses of Steel Moment Frames*

Advisors: Dr. Masayoshi Nakashima and Dr. Keiichiro Suita

Master of Earthquake Engineering, University of Pavia, Pavia, Italy: Centre for Post-Graduate Training and Research in Earthquake Engineering and Engineering Seismology (ROSE School)

Date: June 2004

Thesis: *Effect of Column Base Behavior on Seismic Response of Steel Moment Frames*

Advisor: Dr. Masayoshi Nakashima and Dr. Rui Pinho

Bachelor of Architectural Engineering, Kyoto University, Kyoto, Japan

Date: March 2002

Advisor: Dr. Keiichiro Suita and Dr. Masayoshi Nakashima

RESEARCH AREAS

Structural Engineering, Earthquake Engineering, Seismic Rehabilitation, Structural Health Monitoring, Sustainable structural system

WORK

EXPERIENCES

Fellow, H3

Date: July 2015 – current

Associate Professor, Kyoto University

Date: January 2015 – current

Assistant Professor, Kyoto University

Date: October 2011 – December 2014

Post-doctorate Research Fellow, University of Michigan

Date: September 2009 – September 2011

Instructor, Georgia Institute of Technology

Undergraduate Level Class: Statics, Date: Spring 2009 and Summer 2009

Graduate Research Assistant, Georgia Institute of Technology

Date: August 2005 - May 2009

Graduate Teaching Assistant, Georgia Institute of Technology

Graduate Level Class: Earthquake Engineering, Date: Spring 2007 and Spring 2008

HONOUR and AWARDS

Encouragement Prize of AIJ, 2017

Best Speaker Award, the 11th Japan-America Frontier of Engineers jointly organized by Engineering Academy of Japan and National Science Foundation, Oct. 31, 2012

Invited Speaker, the 11th Japan-America Frontier of Engineers, Oct. 29-31, 2012

Invited Speaker, Engineers Week 2011, February 26, 2011.

Distinguished Master Thesis Award, Kyoto University Architectural Association (Kenchiku Kai), 2006

Japan Society for the Promotion of Science Doctoral Fellowship, 2005

Japanese Student Services Organization Scholarship for Master study at Kyoto Univ., 2002 and 2004

Instituto Universitario di Studi Superiori Scholarship for Master study at ROSE School, 2003

The Japan Iron and Steel Federation Research Award for Master study, 2004

**PROFESSIONAL
AFFILIATION**

Architectural Institute of Japan (AIJ), Japan
Japan Society of Steel Construction (JSSC), Japan
Earthquake Engineering Research Institute (EERI), CA, USA
American Society of Civil Engineers (ASCE), VA, USA
American Institute of Steel Construction (AISC), IL, USA
International Society for optics and photonics (SPIE), USA
International Association for Bridge and Structural Engineering (IABSE), Switzerland

ACTIVITIES

Professional:

2009 – Current Committee, Structural and Health Monitoring and Control Committee
Engineering Mechanics Institute, American Society of Civil Engineers, 2013
2013 – Current Staff, Central Office, International Association of Earthquake Engineering
2013 – Current Committee, Program Committee for SPIE Smart Structures /NDE
2012 – 2016 Committee, Structural Health Monitoring Sub-Committee of Special Project for
Reducing Vulnerability for Urban Mega Earthquake Disasters (ii) Maintenance and
Recovery of Functionality in Urban Infrastructures, MEXT
2013 Executive Committee Chairperson and Facilitator, NEES/E-Defense Collaborative
Earthquake Research Program 10th Planning Meeting
2014 – 2015 Committee, Working Group to Prepare English Versions of Design Provisions
for Steel Structures, AIJ
2014 – Current Committee, Committee on Stability Design of Steel Structures, AIJ
2015 – 2017 Committee, Committee to Prepare English Versions of Design Provisions
for Steel Structures, AIJ
2014 – 2015 Executive Secretary, Executive Committee for IABSE conference in Nara 2015
2014 – 2015 Committee, Scientific Committee for IABSE conference in Nara 2015
2014 – Current Staff, Central Office, Group of Young Earthquake Engineers
2015 – Current Staff, NPO International Association of Earthquake Engineering
2015 – 2017 Executive Secretary, Special Task Committee for Educating Architects
and Architectural Engineers Capable of Surviving Globalization, AIJ
2015 Leading Facilitator, Japan-U.S. Planning Meeting for Collaborative Researches on
Earthquake Engineering at E-Defense
2015 – 2016 Committee, WG for Evaluating Performance of Buckling Suspected Steel Members
2016 – 2018 Committee, Committee on Ultimate State Evaluation and Damage Detection of
Steel Buildings, Japan Society of Steel Construction
2016 – 2019 Treasurer, Steel Structures Group, AIJ Kinki Branch
2016 – 2018 Ordinary Councilor, AIJ Kinki Branch
2017 Committee, Scientific Committee for ANCRiSST2017
2017 – Current Evaluation Committee, Japan Steel-fabrication Appraisal Organization
2017 – 2022 Chair of Sub-committee, A Project on Holistic Resilience Enhancement in the
Tokyo Metropolitan Area: - Evaluation of special equipment and functionality loss
for disaster-base facilities
2017 – Current Committee, Committee on Monitoring of Steel Structures, Japan Society of Steel
Construction
2018 – Current Committee, City master plan committee of Joyo City Council

Journal Editor:

2017 – 現在 AIJ Japan Architectural Review, Editorial Board Members
2016 – 2017 COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING, Guest
Editor for 2017 Special Issue on "Innovations in Structural Health Monitoring"
2017 – 2018 COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING, Guest
Editor for 2018 Special Issue on "Innovations in Structural Health Monitoring"

Journal Review:

Journal of Structural Engineering (ASCE), Journal of Engineering Mechanics (ASCE), Journal of Bridge
Engineering (ASCE)
Earthquake and Structures (Techno Press)
Computer-aided Civil and Infrastructure Engineering (Wiley)
Journal of Structural Control and Health Monitoring (Wiley)
Journal of Structural and Constructional Engineering (AIJ), Journal of Structural Engineering (Kouzou
Kougaku, AIJ)
Journal of Constructional Steel (JSSC)
Engineering Structures (Elsevier)
Smart Materials and Structures (IOP Science)
Bulletin of Earthquake Engineering (EAEE)

Social:

President, Earthquake Engineering Research Institute, Georgia Tech Student Chapter, 2007
Vice President, Earthquake Engineering Research Institute, Georgia Tech Student Chapter, 2006
President, Georgia Tech Japan Society, 2007 and 2008
Panelist, Briefing Sessions in Kyoto University, Japanese Graduate Student Association in the US, 2012, 2013, 2014

LANGUAGES

English: fluent in writing, reading, and speaking
Italian: fair for daily communications
Japanese: native

SEMINAR AND TALK

新生児看護学会の教育講演会：災害について一緒に考えよう 備えあれば憂いなし 備えるべき『知識』『意識』 “大地震時に病院はー特に NICU はー” January 27, 2018 (in Japanese)

“Damage Prevention, Evaluation and Decision-Making: Challenges in Structural Engineering against Megaquakes,” Departmental Seminar, University of Canterbury, September 11, 2017

“Damage Evaluation and Residual Performance Estimates of Steel Structures after Earthquakes,” Departmental Seminar, University of Auckland, September 7, 2017

“Needs on Seismic Retrofit of Steel Buildings Considering Consequences”, 2nd Huixian International Forum on Earthquake Engineering for Young Researchers, August 19-21, 2016, Beijing, China

“余震による事業中断を考慮した重要施設の事業継続性評価”, IT 強震計研究会第 26 回定例会 January 24, 2017 (in Japanese)

地域の拠点建物の使用継続性を担保する, 第 22 回京都大学宇治キャンパス産学交流会, Dec. 6, 2016 (in Japanese)

“熊本地震の教訓：建築構造の観点から”, 南防火協会講演会, Sept 21, 2016 (in Japanese)

“Advanced Architecture B”, invited lecture for graduate level class, graduate school of architecture, Waseda University, November 26, 2014

“Structural Health Monitoring and Decision Making of Seismically Damaged Buildings,” the Special Seminar at the 29th General Assembly Meeting, the Committee of Earthquake Observation and Research in the Kansai Area: CEORKA, July 1, 2014.

“Responses to Non-Physical Performance Requirements in Structural Engineering,” Seminar for the Structural Control Committee (157 Committee), Japan Society for the Promotion of Science, January 14, 2014.

“Ultimate Behavior of Hollow Steel Section Columns and Collapse Margin of Steel Buildings,” Seminar for Steel Research Section, Kinki Branch, Architectural Institute of Japan, January 1, 2014.

“Development of Local Damage Detection Techniques for Improving Earthquake Preparedness of Steel Structures,” Global COE Program: International Urban Earthquake Engineering Center for Mitigating Seismic Mega Risk, Center for Earthquake Engineering (CUEE), Tokyo Institute of Technology, February 23, 2013.

“Post-Earthquake Damage Screening of Structures,” the 11th Japan-America Frontiers of Engineering (JAFOE), Engineering Academy of Japan (EAJ) and National Science Foundation (NSF), Arnold and Mabel Beckman Center in Irvine, California, October 29-31, 2012.

“Resilient City: Functions Required for Structural Engineering and Design,” Closed Seminar for Structural Health Monitoring, Steel Structure Development Center, Steel Research Laboratories, Nippon Steel Corporation, March 15, 2012

“Smart Bridges...How Wireless Sensors Can Detect a Sick Bridge: Multi-Scale Approaches to Monitoring and Assessing the Structural Integrity of Bridges Using Next-Generation Sensor

Technologies,” Engineers Week 2011: Dinner Banquet Program, Windsor Park Conference Center, Mishawaka, IN, February 26, 2011.

“Strategies for Seismic Hazard Mitigation in Sustainable Urban Systems through Large Scaling Testing”, Earthquake Protection System, California, June 19, 2009

“Strategies for Seismic Hazard Mitigation in Sustainable Urban Systems through Large Scaling Testing”, Department of Civil and Environmental Engineering, University of Michigan, May 26, 2009

“Strategies for Seismic Hazard Mitigation in Sustainable Urban Systems through Large Scaling Testing”, Department of Civil and Environmental Engineering, Oregon State University, April 8, 2009

PATENT

“Cable Bracing System with Central Energy Dissipater”, *U.S. Provisional Patent Application*, GTRC ID 4754 (elapsed in April 17, 2010)

PUBLICATIONS

SCI Journal Papers (32):

Li, X., Kurata, M. [2018]. “Probabilistic updating of fishbone model for assessing seismic damage to beam-column connections in steel moment-resisting frames,” *Computer-Aided Civil and Infrastructure Engineering* (published online in December 2018), <https://doi.org/10.1111/mice.12429>.

Otsuki, Y., Kurata, M., Skalomenos, K.A., Ikeda, Y. [2018]. “Damage sequence and safety margin assessment of expansion joints by shake table testing,” *Earthquake Engineering and Structural Dynamic* (Published online in September 2018), <https://doi.org/10.1002/eqe.3120>.

Zhang, L., Marzano, G., Sasaki, Y., Kurata, M., Skalomenos, K. [2018]. “Force Redistribution of Steel Moment-Resisting Frame Retrofitted with a Minimal Disturbance Arm Damper,” *Soil Dynamics and Earthquake Engineering*, 114, pp. 159-173, <https://doi.org/10.1016/j.soildyn.2018.06.035>

Skalomenos, K.S., Kurata, M., Shimada, H., Nishiyama, M. [2018]. “Use of Induction-Heating in Steel Structures: Material Properties and Novel Brace Design,” *Journal of Constructional Steel Research*, 148, pp. 112-123, <https://doi.org/10.1016/j.jcsr.2018.05.016>

Skalomenos, K.S., Nakashima, M., Kurata, M. [2018]. “Seismic Capacity Quantification of Gusset-Plate Connections to Fracture for Ductility-Based Design,” *Journal of Structural Engineering*, 144(10), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0002193](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002193)

Zhang, L., Kurata, M., Marino, E.M., Takeda, T. [2018]. “Development of a Minimal-Disturbance Rehabilitation System for Sustaining Bidirectional Loading,” *Journal of Structural Engineering*, 144(6) [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0002089](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002089).

Deng, D., Zhao, C., Wang, K., Kurata, M., Wang, T. [2018]. “Numerical Study on a Fully-prefabricated Damage-tolerant Beam to Column Connection for an Earthquake-resilient Frame,” *Engineering Structures*, 159(15), pp. 320-331, <https://doi.org/10.1016/j.engstruct.2018.01.011>.

Skalomenos, K.S., Kurata, M. and Nakashima, M. [2018]. “On-line Hybrid Test Method for Evaluating the Performance of Structural Details to Failure,” *Earthquake Engineering and Structural Dynamic*, 47(3), pp. 555-572, <https://doi.org/10.1002/eqe.2979>

Matarazzo, T.J., Kurata, M., Nishino, H., Suzuki, A. [2018]. “Post-earthquake Strength Assessment of a Steel Moment-Resisting Frame with Multiple Beam-Column Fractures using Local Monitoring Data,” *Journal of Structural Engineering*, Vol. 144(2), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001967](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001967).

Burton, A., Lynch, J.P., Kurata, M., Law, K. [2017]. “Fully Integrated Carbon Nanotube Composite Thin Film Strain Sensors on Flexible Substrates for Structural Health Monitoring,” *Smart Materials and Structures*, Vol. 26(9).

Suzuki, A., Kurata, M., Li, X., and Shimmoto, S. [2017]. “Residual Structural Capacity Evaluation of Steel Moment-Resisting Frames using Dynamic-strain-based Model Updating Method,” *Earthquake Engineering and Structural Dynamics*, <https://doi.org/10.1002/eqe.2882>.

Inamasu, H., Skalomenos, AK., Hsiao, P-C., Hayashi K., Kurata, M., and Nakashima, M. [2017]. “Gusset plate connection for Naturally Buckling Brace,” *Journal of Structural Engineering*, 143(8), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001794](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001794).

- Lavan, O., Sato, M., Kurata, M., Zhang, L. [2017]. "Local Deformation Based Design of Minimal-Disturbance Arm Damper for Retrofitting Steel Moment-Resisting Frames," *Earthquake Engineering and Structural Dynamics*, 46(9), <https://doi.org/10.1002/eqe.2866>.
- Barbagallo, B., Hamashima, I., Hu, H., Kurata, M., Nakashima, M. [2017]. "Base Shear Capping Buildings with Graphite-Lubricated Bases for Collapse Prevention in Extreme Earthquakes," *Earthquake Engineering and Structural Dynamics*, 46(6), <https://doi.org/10.1002/eqe.2842>.
- Li, X., Kurata, M., Suzuki, A. [2017]. "Decoupling Algorithm for Evaluating Multiple Beam Damages in Steel Moment-resisting Frames," *Earthquake Engineering and Structural Dynamics*, 46(7), pp. 1045-<https://doi.org/1064>, [10.1002/eqe.2841](https://doi.org/10.1002/eqe.2841).
- Zhang, Y., Kurata, M., Lynch, J.P. [2017]. "Long-Term Modal Analysis of Wireless Structural Monitoring Data from a Suspension Bridge under Varying Environmental and Operational Conditions: System Design and Automated Modal Analysis," *Journal of Engineering Mechanics*, 143(4), [https://doi.org/10.1061/\(ASCE\)EM.1943-7889.0001198](https://doi.org/10.1061/(ASCE)EM.1943-7889.0001198), 04016124.
- Yamaguchi, M., Kurata, M., Miyazawa, M. [2017]. "Building Damage Estimates using Slowness Change in Propagating Waves," *Journal of Structural Engineering*, 143(4), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001683](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001683), 04016200.
- He, L., Togo, T., Hayashi, K., Kurata, M., Nakashima, M. [2016]. "Cyclic Behavior of Multi-Row Slit Shear Walls Made from Low Yield Point Steel," *Journal of Structural Engineering* 142(11), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001569](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001569), 04016094.
- Bai, Y., Kurata, M., Nakashima, M., Florez, J. [2016]. "Macromodeling of Crack Damage in Steel Beams Subjected to Nonstationary Low Cycle Fatigue," *Journal of Structural Engineering*, 142(10), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001536](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001536), 04016076.
- Li, X., Kurata, M., Nakashima, M. [2016]. "Simplified Derivation of a Damage Curve for Seismically Induced Beam Fracture in Steel Moment-resisting Frames," *Journal of Structural Engineering*, 141(6), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001473](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001473), 04016019.
- Kurata, M., Sato, M., Zhang, L., Lavan, O., Becker, T., Nakashima, M. [2016]. "Minimal-Disturbance Seismic Rehabilitation of Steel Moment-Resisting Frames using Light-weight Steel Elements," *Earthquake Engineering and Structural Dynamics*, 45(3), pp. 383-400.
- He, L., Kurata, M., Nakashima, M. [2015]. "Condition Assessment of Steel Shear Walls with Tapered Links under Various Loadings," *Earthquake and Structure*, 9(4), pp. 767-788, 2015.10.
- Kurata, M., He, L., Nakashima, M. [2015]. "Steel Slit Shear Walls with Double-Tapered Links Capable of Condition Assessment," *Earthquake Engineering and Structural Dynamics*, Wiley, 44(8), pp. 1271-1287.
- Li, X., Kurata, M., Nakashima, M. [2015]. "Evaluating Damage Extent of Fractured Beams in Steel Moment-Resisting Frames using Dynamic Strain Responses," *Earthquake Engineering and Structural Dynamics*, Wiley, 44(4), pp. 563-581.
- Nakashima, M., Lavan, O., Kurata, M., Luo, Y. [2014]. "Earthquake Engineering Research Needs in Light of Lessons Learned from the 2011 Tohoku Earthquake," *Earthquake Engineering and Engineering Vibration*, 13, Suppl.1, pp. 141-149. <https://doi.org/10.1007/s11803-014-0244-y>
- Shi Y., Kurata, M., Nakashima, M. [2014]. "Disorder and Damage of Base-Isolated Medical Facilities when Subjected to Near-Fault and Long-Period Ground Motions," *Earthquake Engineering and Structural Dynamics*, Wiley, 43(11), pp. 1683-1701.
- Shi, Y., Becker, T., Kurata, M., Nakashima, M. [2013]. " H^∞ Control in the Frequency Domain for a Semi-Active Floor Isolation System," *Frontiers of Structural and Civil Engineering*, 7(3), pp. 264-275.
- Kurata, M., Li, X., Fujita, K., Yamaguchi, M. [2013]. "Piezoelectric Dynamic Strain Monitoring for Detecting Local Seismic Damage in Steel Buildings," *Smart Materials and Structures*. 22, 115002.
- Kurata, M., Kim, J., Lynch, J., van der Linden, G., Sedarat, H., Thometz, E., Hipley, P., and Sheng, L. [2013]. "Internet-Enabled Wireless Structural Monitoring Systems: Development and Permanent

Deployment at the New Carquinez Suspension Bridge,” *Journal of Structural Engineering*, ASCE, 139, pp. 1688–1702.

Kurata, M., Leon, T. R., DesRoches, R., and Nakashima, M. [2012]. “Steel Plate Shear Wall with Tension-Bracing for Seismic Rehabilitation of Steel Frames,” *Journal of Constructional Steel Research*, Vol. 71, pp. 92-103.

Kurata, M., Leon, T. R., and DesRoches, R. [2012]. “Rapid Seismic Rehabilitation Strategy: Concept and Testing of Cable Bracing with Couples Resisting Damper (CORE Damper),” *Journal of Structural Engineering*, ASCE, Vol 138 (3), pp. 354-362.

Kurata, M., Nakashima, M., and Suita, K. [2005]. “Effect of Column Base Behavior on Seismic Response of Steel Moment Frames,” *Journal of Earthquake Engineering*, Imperial College Press, Vol. 9, Special Issue 2, pp. 415-438.

Japanese Journal Papers (19):

Wada, T., Ikeda, Y., Kurata, M., Kashima, T. [2019] Verification of Method to Evaluate Amplitude-Dependent Natural Frequencies of Steel Buildings using Main Shock Response, *Journal of Structural Engineering (Kouzou Kougaku)* (in Japanese).

Hamashima, I., Kurata, M., Nakashima, M. [2017]. “Slipping Behavior of Base Shear Capping Buildings for Collapse Prevention and Required Maximum Strength,” *Journal of Structural and Constructional Engineering*, AIJ, No.741, p. 1695-1705 (in Japanese).

Shiraishi, M., Morii, T., Okada, K., Sugimoto, K., Sato, T., Kurata, M., Tobita, J. [2017]. “Local Damage Detection using Densely Deployed Vibration Sensors and Output Error of Sub-structures,” *Journal of Structural and Constructional Engineering*, AIJ, No.736, p. 1187-1197 (in Japanese).

Togo, T., He, L., Hayashi, K., Kurata, M., Nakashima, M. [2016]. “Seismic behavior and design of assembled slit shear walls using low yield point steel,” *Journal of Structural and Constructional Engineering*, AIJ, No.720, pp. 335-343 (in Japanese).

Shimmoto, S., Kurata, M., Suzuki, A., Li, X. [2015]. “Immediate Decision Support on Re-occupancy of Earthquake-Affected Buildings Based on Assessment of Aftershock Risk,” *Journal of Social Safety Science*, Institute of Social Safety Science, No.27, pp. 275-281, 2015.11 (in Japanese).

Hayashi, K., Nishi, R., Luo, Y., Kurata, M., Nakashima, M. [2015]. “Restoring Force Characteristics and Ultimate Behavior of Concrete Filled Steel Tube Columns using Ultra-High Strength Steel H-SA700,” *Journal of Structural and Constructional Engineering*, AIJ, 80 (718), pp. 2001-2009. 2015.12 (in Japanese).

Kurata, M., Suzuki, A., Minegishi, K., Nakashima M. [2015]. “Integrity Assessment of Steel Beam-Column Connections using Ambient-Based Inner-Force Estimates,” *Journal of Structural and Constructional Engineering*, AIJ, 713, pp.1045-1054 (in Japanese).

Ito, M., Kazuhiro, H., Taniguchi Y., Kurata, M., Nakashima, M. [2015]. “Design Procedure for Seismic Retrofit using Stud-Type Dampers in Consideration of Strength and Stiffness of Surrounding Frames,” *Journal of Structural and Constructional Engineering*, AIJ, 711, pp. 811-818 (in Japanese).

Togo, T., He, L., Hayashi, K., Kurata, M., Nakashima, M. [2015]. “Development of Multi-Row Slit Shear Walls using Low Yield Point Steel”, *Journal of Structural and Constructional Engineering*, AIJ, 709, pp. 501-510, 2015.3 (in Japanese).

Kurata, M., Sato, M., Zhang, L., Nakashima, M. [2015]. “Seismic Rehabilitation of Steel Frames with Minimal-Disturbance using Tension-Rods and Steel Bending Plates”, *Journal of Structural and Constructional Engineering*, AIJ, 709, pp.491-500 (in Japanese).

Hayashi, K., Nishi, R., Enomoto, R., Kurata, M., Nakashima, M. [2014]. “Performance of Concrete Filled Double-Skin Tubes Using Ultra-Changes in Vibration Characteristics of Steel Beam-Column Connections with Composite Beams under Cyclic Loading,” *Journal of Structural and Constructional Engineering*, AIJ, 705, pp. 1699-1707 (in Japanese).

- Kurata, M., Minegishi, K., Tang, Z., Nakashima, M. [2014]. “Changes in Vibration Characteristics of Steel Beam-Column Connections with Composite Beams under Cyclic Loading,” *Journal of Structural and Constructional Engineering*, AIJ, 703, pp.1271-1278 (In Japanese).
- Yamaguchi M., Kurata, M., Miyazawa, M., Nozawa, T. [2014]. “Relation between Simulated Damage of Steel Frame and Delay in Wave Propagation Identified by Seismic Interferometry using Ambient Noise,” *Journal of Structural Engineering (Kouzou Kougaku)*, 60B, pp. 281-288 (In Japanese).
- Ito, M., Taniguchi, Y., Hayashi, K., Kurata, M., Nakashima, M. [2014]. “Evaluation of Stiffening Force Applied to Wood Panels Used as Restrainers of Slitted Steel Shear Wall,” *Journal of Structural Engineering (Kouzou Kougaku)*, 60B, pp. 399-405 (In Japanese).
- Ito, M., Hayashi, K., Taniguchi, Y., Kurata, M., Nakashima, M. [2013]. “Design Procedure for Panels Stiffening Steel Shear Walls with Slits,” *Journal of Structural and Construction Engineering*, Vol 687, pp. 987-996 (In Japanese).
- Kurata, M., Kanao, I., Liu D., and Nakashima, .M. [2007]. “Influence of Local Buckling on Plastic Rotation Capacity of Steel Box Column Subjected Cyclic Loading,” *Journal of Structural and Constructional Engineering*, AIJ, 613, pp. 155- 161 (In Japanese).
- Yamamoto, R., Kurata, M., Nagae, T., Terada, T., Sutia, K., and Nakashima, M. [2007]. “Cyclic loading test and strength evaluation (Hysteretic behavior and strength capacity of shallow-embedded steel column bases part 1).” *Journal of Structural and Constructional Engineering*, AIJ, 613, pp. 147-153 (In Japanese).
- Kurata, M., Nakashima, M., and Suita, K. [2005]. “Test on Large Cyclic Deformation of Steel Tube Columns Having Fixed Column Bases,” *Journal of Structural and Constructional Engineering*, AIJ, 598, pp. 149-154 (In Japanese).
- Zhou, F., Suita, K., Matsumiya, T., and Kurata, M. [2004]. “Tests on Steel Column Bases with T-stub Connections,” *Journal of Structural and Constructional Engineering*, AIJ, 581, pp. 117-125.
- Conference Papers with Abstract Review:**
- Kurata, M., Li, X., Matarazzo, T. “Dynamic-Strain-based Damage Evaluation of Field-welded Beam-to-Column Connections in Steel Frames,” The 7th World Conference on Structural Control and Monitoring, July 23-25, 2018
- Li, X., Kurata, M. “Seismic Damage Assessment of a Full-scale E-Defense Tested Steel Building Using Limited Acceleration Measurements,” The 7th World Conference on Structural Control and Monitoring, July 23-25, 2018
- Skalomenos, K.A., Kurata, M., Fukutomi, Y., Nishiyama, M., “Evaluation of Cyclic Behavior of Steel Braces with Stronger Middle Length Treated by Induction Hardening,” 11th US National Conference on Earthquake Engineering, June 25-29, 2018
- Y. Otsuki, K. Buyco, M. Kurata and M. Speicher, “Feasibility Study on Multi-Code Seismic Evaluation of a Landmark Building,” 11th US National Conference on Earthquake Engineering, June 25-29, 2018
- Kurata, M., Hitomi, M., Shmmoto, S., Ohtsuru, S., Shimoto, M., Cho, K., Sugiyama, O., Aida, S. “Hearing and Analysis of Hospital Evacuation after the 2016 Kumamoto Earthquake,” 16th European Conference on Earthquake Engineering, June 18-21, 2018
- Skalomenos, K., Kurata, M., Shimada, H., Nishiyama, M. “Braces with Intentional Eccentricity and Partial Cross-Section Strength Enhancement,” 16th European Conference on Earthquake Engineering, June 18-21, 2018
- Sullivan, T.J., Arifin, F.A., MacRae, G.A., Kurata, M., Takeda, T. “Cost-Effective Consideration of Non-Structural Elements: Lessons from the Canterbury Earthquakes,” 16th European Conference on Earthquake Engineering, June 18-21, 2018
- Arifin, F.A. Sullivan, T.J., MacRae G.A., Mulligan, J., Kurata, M., Takeda, T. “Evaluating the Benefits of Retrofitting Vulnerable Non-Structural Components: A Case Study,” *NZSEE Conference 2018*, April. 13-15, 2018

- Marzano, G., Zhang, L., Sasaki, Y., Kurata, M. "Minimal-Disturbance Arm Damper Retrofitting: Evaluation of Retrofit Effect Using Multi-Span Steel Frame Specimens," *Key Engineering Materials*, 763, 1113-1120, 2018.2
- Skalomenos, K.A., Takeda, T., Kurata, M., Nakashima, M. "On-Line Testing of Steel Brace Connections Using Non-Linear Substructuring and Force-Displacement Combined Control," *Key Engineering Materials*, 763, 510-517, 2018.2
- Skalomenos, K.A., Shimada, H., Kurata, M., Nakashima, M. "Feasibility of hybrid simulation for testing steel connections of braces with intentional eccentricity," *Eurosteel 2017*, Sept. 13-15, 10.1002/cepa.89, 2017.
- Barbagallo, F., Hamashima, I., Hu, H., Zhang, L., Kurata, M., Nakashima, M. "Experimental Investigation On Dynamic Behaviour Of Free-Standing Frames With Friction," *Proceedings of the 16th World Conference on Earthquake Engineering (16WCEE)*, January 2017.
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