

Masahiro Kurata



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Disaster Prevention Research Institute
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Japanese

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(As of Aug., 2025)

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 Systems, 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

Instructor, Kyoto Prefectural University

Date: April 2019 – September 2020

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

HONOR and AWARDS

Top Downloaded Paper 2018-2019 in Earthquake Engineering and Structural Dynamics “Fragility function development and seismic loss assessment of expansion joints”, 2020

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 – 2016 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
 2018 – 2020 Delegate, AIJ Kinki Branch
 2019.10 – 2021.9 Secretary, Taskforce for youth education and support, AIJ
 2019.4 – 2021.3 Committee, WG on Research theme exploration for young engineers, JSSC Kansai
 2020.6 – 2021.9 Chair, International WG, Taskforce for youth education and support, AIJ,
 2020.4 – 2022.3 Committee, Subcommittee for next generation steel structure design, AIJ
 2020.4 – 2022.3 Committee, Committee on Encourage Award selection, AIJ
 2021.4 – 2023.3 Committee, Committee on Thesis awards selection, AIJ
 2021.4 – 2023.3 Chair (from 2022.4), Secretary (2022.3), Committee on Survey for IT uses in
 steel construction and fabrication, JSSC Kansai
 2021.4 – 2023.3 Committee, Committee on Special survey for numerical simulation techniques and
 licencing to ensure building performance, AIJ
 2022.4 – 2023.3 Member, Subcommittee for Doctoral Dissertation Award, AIJ
 2023.4 – 2025.3 Member, Subcommittee on Seismic Performance Evaluation during Large
 Earthquakes, WG on Secondary Member Cost Evaluation, AIJ
 2023.4 – 2025.3 Chair, International Collaboration WG on Stability Research of Steel Structures,
 Subcommittee on Stability in Steel Structures, AIJ

- 2023.5—present Member, Disaster investigation committee member, Japan Society of Seismic Isolation Structures
- 2023.6—2024.5 Present Secretary, Task Force on Global Response to Standards and Publications: Data Disclosure and V&V WG, AIJ
- 2024.4—2026.3 Member of the Subcommittee on Seismic Performance Evaluation during Large Earthquakes, Wooden Structures and Foundation Sliding WG, AIJ
- 2024.4—2026.3 WG Subcommittee of Time History Analysis of Steel Structures, AIJ

Journal Service:

- 2016—2017 Computer-Aided Civil and Infrastructure Engineering, Guest Editor for 2017 Special Issue on "Innovations in Structural Health Monitoring."
- 2017—2023 AIJ Japan Architectural Review, Editorial Board Member
- 2017—2018 Computer-Aided Civil and Infrastructure Engineering, Guest Editor for 2018 Special Issue on "Innovations in Structural Health Monitoring."
- 2018—2019 Computer-Aided Civil and Infrastructure Engineering, Guest Editor for 2019 Special Issue on "Innovations in Structural Health Monitoring."
- 2019—2023 Earthquake Engineering and Structural Dynamics, Advisory Editorial Board
- 2021—2023 Journal of Earthquake Engineering, Editorial Board
- 2024—present AIJ Japan Architectural Review, Associate Editor

Conferences & Meetings:

- 2013 U.S.-Japan Earthquake Engineering Meeting (NEES/E-Defense Collaborative Earthquake Research Program 10th Planning Meeting), Executive Committee – Chair; Moderator of the Monitoring Discussion Session
- 2015 U.S.-Japan Earthquake Engineering Meeting (Japan-U.S. Planning Meeting for Collaborative Researches on Earthquake Engineering at E-Defense) Japanese Representative – General Coordinator; Monitoring Session Convener
- 2021 17th World Conference on Earthquake Engineering – Session Chair; Mini-Symposium Moderator
- 2022 12th National Conference on Earthquake Engineering – Session Chair
- 2024 18th World Conference on Earthquake Engineering – Session Chair
- 2024 18th World Conference on Earthquake Engineering – Editorial Board Member (Tsunami, Natech, Multi-Hazard Risk Assessment)
- 2025 10th International Conference on Composite Construction in Steel and Concrete – Scientific Committee Member

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

University of Catania, Italy “Ph.D. Course in Evaluation and Mitigation of Urban and Territorial Risks”: Multi-Disciplinary Approach on Earthquake Reconnaissance and Large-Scale Testing for Seismic Assessment and Monitoring of Medical Facilities, October 4, 2023

日本建築学会：トルコ・シリア地震災害調査 速報会：建物被害と事業継続性：工業団地（PC造・S造）/病院施設（耐震・免震），April, 29, 2022

“Reconnaissance, Seismic Assessment, and Monitoring of Hospital Buildings with due Consideration of Nonstructural Components and Equipment,” Georgia Institute of Technology Earthquake, SMEM Seminar, October 11, 2022 (invited)

NHERI/E-Defense First Phase, NHERI National Disaster Research Summit, Oct 5-6, 2022 (invited)

- 建築物の振動計測技術と多様な性能評価に関する研究勉強会：BCP（事業継続計画）とモニタリング地震による病院機能の損失から，2022.6.2（招待講演）
- 日本建築総合試験所・BCP（事業継続計画）に関する講演会：地震による病院機能の損失，2022.5.16（招待講演）
- Monitoring for Earthquake Engineering: Current initiatives and future direction, 17th World Conference on Earthquake Engineering, Future Direction Session, Super advanced exploration, simulation, and monitoring (Panelist)
- Holistic Seismic Assessment of Critical Buildings with due Consideration of Non-Structural Components and Equipment, Seminar at National Institute of Standards and Technology, USA, March 21, 2019.
- Connections in Steel Structures with HSS columns: Design, Fabrication and Researches in Japan, XV International Symposium of Steel Structure, Instituto Mexicano de la Construcción en Acero (IMCA), Puerto Vallarta, Jalisco, Mexico, March 7, 2019
- 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－特に NICU は－” 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 (lapsed in April 17, 2010)

Masahiro Kurata, Kailai Den: Method of constructing a composite stud, a floor structure and the floor structure

[Patent number] Japanese Patent No. 7082413 (P7082413)

[Publication date] Reiwa 4(2022) June 8 (2022.6.8)

[Patentee] Kyoto University

PUBLICATIONS

SCI Journal Papers (68):

1. Xu, C., Ma, Q. T., Beskhyroun, S., & Kurata, M. (2025). A Shake Table Study on Caster Configuration in the Seismic Response of Rolling Equipment. *Journal of Earthquake Engineering*, 1–24. <https://doi.org/10.1080/13632469.2025.2525923>
2. Huang, J., & Kurata, M. (2025). Seismic Behavior and Functional Loss of Swing-Type Steel Doors within Partition Walls, *Journal of Structural Engineering*, (accepted)
3. Huang, J., & Kurata, M. (2025). Probabilistic seismic damage assessment for partition walls based on a multi-spring numerical model incorporating uncertainties. *Computer-Aided Civil and Infrastructure Engineering*, 1–17. <https://doi.org/10.1111/mice.13472>
4. Shen, S.-D., Gu, A., Kurata, M., Huang, J. and Xie, J.-Z. (2025), Coupling Coefficient-Based Damage Evaluation Method of Precast Unbonded Post-Tensioned (UPT) Shear Wall Structures. *Earthquake Engng Struct Dyn.*, 54: 1156-1171. <https://doi.org/10.1002/eqe.4305>
5. Huang J, Kurata M. Influence of Doors on the In-Plane Seismic Behavior of Partition Walls, *Journal of Structural Engineering*, 151(1), 2025 <https://doi.org/10.1061/JSENDH.STENG-13618>
6. Akazawa M, Kurata M, Yamazaki S, Kawamata Y, Matsuo S. Test and sensitivity analysis of base-isolated steel frame with low-friction spherical sliding bearings. *Earthquake Engng Struct Dyn.* 2025; 54: 100–118. <https://doi.org/10.1002/eqe.4249>
7. Tsutsumi, T, Fukuyama K, Kishimoto K, Mori Y, Sugiyama O, Yamamoto G, Kurata M, Ueshima H, Saito K, Kuroda T, Ohtsuru S. Operating table stability and patient safety during an earthquake based on the results of a shaking table experiment, *BJA (British Journal of Anaesthesia) Open*, 11 (C): <https://doi.org/10.1016/j.bjao.2024.100301>
8. Lin, K.-S., Kurata, M., Kawasaki, Y. and Kitatani, Y. (2024), Investigation of low-disturbance seismic retrofit method for steel column bases using curved members. *Jpn Archit Rev*, 7: e12429. <https://doi.org/10.1002/2475-8876.12429>
9. Skalomenos K, Kurata M. Collapse hybrid simulation for testing steel building columns subject to boundary condition changes. *Earthquake Engng Struct Dyn.* 2024; 53: 1612–1637. <https://doi.org/10.1002/eqe.4083>

10. Shen S-D, Kurata M. A novel damage evaluation method for exposed column bases (ECBs) affecting the seismic properties of low-rise steel moment-resisting frames (MRF). *Earthquake Engng Struct Dyn.* 2024; 53: 218–236. <https://doi.org/10.1002/eqe.4016>
11. Lin K-S, Kurata M., Pettinga D, Suzuki, Y., Matsuo, S., Perea T. Effectiveness of repairing yielding anchor rods in exposed column bases in steel structures. *Earthquake Engng Struct Dyn.* 2024; 53: 1656–1675. <https://doi.org/10.1002/eqe.4087>
12. Huang J, Kurata M., Shen S-D. Experimental investigation and modeling of boundary influences on in-plane seismic performance of partition walls. *Earthquake Engng Struct Dyn.* 2024; 53: 924–942. <https://doi.org/10.1002/eqe.4051>
13. Astudillo, B, Rivera, D, Duke, J, Simpson, B, Fahnestock, LA, Sause, R, Ricles, J, Kurata, M., Okazaki, T, Kawamata, Y, Tao, Z, Qie Y, Modeling uncertainty of specimens employing spines and force-limiting connections tested at E-defense shake table. *Earthquake Engng Struct Dyn.* 2023; 52: 4638–4659. <https://doi.org/10.1002/eqe.3976>
14. Qi, L., Kurata, M., Huang, J., Kawamata Y., Aida, S., Cho, K., Kanao, K., Takaoka, M. Seismic damage and functional loss of ceiling systems: Observation in shaking table test of hospital specimen. *Earthquake Engng Struct Dyn.* 2023; 52: 2888–2909. <https://doi.org/10.1002/eqe.3900>
15. Shen, S-D, Kurata, M. “Rapid evaluation of structural soundness of steel frames using a coupling coefficient (CC)-based method,” *Earthq. Engng Struct Dyn.*; 2023; 52: 1182–1204. <https://doi.org/10.1002/eqe.3811>
16. Huang, J, Kurata, M., Kawamata, Y, Kanao, I, Qi, L, Takaoka, M. In-Plane damage of partition walls with various boundaries during earthquakes. *Earthquake Engng Struct Dyn.* 2022; 1- 19. <https://doi.org/10.1002/eqe.3802>
17. Shimoto, M., Cho, K., Kurata, M., Hitomi, M., Kato, Y., Aida, S., Sugiyama, O., Maki, N., Ohtsuru, S. “Hospital Evacuation Implications After the 2016 Kumamoto Earthquake,” *Disaster Medicine and Public Health Preparedness*, 1-3, 2022 doi:10.1017/dmp.2022.25 (Report from the Field)
18. Horiuchi, T., Ohsaki, M., Kurata, M., Ramirez, JA., Yamashita, T., Kajiwara, K. “Contributions of E-Defense Shaking Table to Earthquake Engineering and its Future,” *Journal of Disaster Research*, 17 (6), 985-999, 2022.10, <https://doi.org/10.20965/jdr.2022.p0985>
19. Ikeda, Y., Kurata, M., Xie, J. “Verification of multi-degree-of-freedom building modelling for seismic response prediction based on microtremor measurement,” *Earthquake Engng Struct Dyn.* 2022; 00 1– 26, <https://doi.org/10.1002/eqe.3630>
20. Skalomenos, K., Whittall, T., Kurata, M., Pickering J. “Component testing and multi-level seismic design of steel braced frames with high post-yielding stiffness and two-phase yielding,” *Soil Dynamics and Earthquake Engineering* 157, 107248, 2022.6, <https://doi.org/10.1016/j.soildyn.2022.107248>
21. Hamauzu, S., Skalomenos, K., Kurata, M., Theofanous M. “Local buckling behaviour of high-strength steel tubular columns subjected to one-sided cyclic loading and implications in seismic design of steel MRFs,” *Soil Dynamics and Earthquake Engineering* 154, 107115, 2022.3, <https://doi.org/10.1016/j.soildyn.2021.107115>
22. Qi, L., Kurata, M., Ikeda Y. “Seismic damage thresholds and design methods for two-elevation continuous ceiling systems,” *Engineering Structures*, 251, 113530, 2022, <https://doi.org/10.1016/j.engstruct.2021.113530>
23. Shen, SD., Kurata, M., Pan, P., He, ZZ. “Test, analysis, and design of ovally - perforated vertically - flexible steel plate shear wall (OVSPW),” *Earthquake Engineering & Structural Dynamics*, 51(1), pp. 66-85, 2022.1, <https://doi.org/10.1002/eqe.3556>
24. Ammons, M., Shimada, H., McCormick, J., Kurata, M. “Experimental Investigation of Foam Filled CHS Braces under Cyclic Loading,” *Journal of Structural Engineering*, 147(5), 04021044, 2021.5, [https://doi.org/10.1061/\(asce\)st.1943-541x.0002993](https://doi.org/10.1061/(asce)st.1943-541x.0002993)

25. Li, X., Kurata, M., Wang, Y.-H., Nakashima, M. "Estimating Earthquake-Induced Displacement Responses of Building Structures Using Time-Varying Model and Limited Acceleration Data," *Journal of Structural Engineering*, 147(4), 04021014, 2021.4, [https://doi.org/10.1061/\(asce\)st.1943-541x.0002973](https://doi.org/10.1061/(asce)st.1943-541x.0002973)
26. Qi, L., Kurata, M., Ikeda, Y., Kunitomo, K., Takaoka, M. "Seismic evaluation of two - elevation ceiling system by shake table tests," *Earthquake Engineering and Structural Dynamics*, 50(4), pp. 11447-1166, 2021.4, <https://doi.org/10.1002/eqe.3390>
27. Arfin, F.A., Sullivan, T., MacRae, G., Kurata, M., Takeda, T. "Lessons for loss assessment from the Canterbury earthquakes: a 22-storey building," *Bulletin of Earthquake Engineering*, 19(5), pp. 2081-2104, 2021.3, <https://doi.org/10.1007/s10518-021-01055-7>
28. Otsuki, Y., Li, D., Dey, S.S., Kurata, M., Wang, Y. "Finite Element Model Updating of an 18-Story Structure using Branch-and-Bound Algorithm with Epsilon-Constraint," *Journal of Civil Structural Health Monitoring*, 2020.12, <https://doi.org/10.1007/s13349-020-00468-3>
29. Liu, Y., Nishiyama, M., Tani, M., Kurata, M., Iwata, K. "Steel beam with web opening reinforced by induction heating," *Journal of Constructional Steel Research*, Volume, 176, 106399, <https://doi.org/10.1016/j.jcsr.2020.106399>, 2021.1
30. Marzano, G., Skalomenos, K.A., Kurata, M. "Multiple-Damage State Retrofit of Steel Moment-Resisting Frames with Minimal Disturbance Arm Damper," *Journal of Structural Engineering*, [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0002697](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002697), 2020.9
31. Zeng, X., Deng, K., Kurata, M., Duan, J., Zhao, C. "Seismic performance evaluation of damage-controlled composite steel frame with flexible-gel-covered studs," *Engineering Structures*, 219, 110855, <https://doi.org/10.1016/j.engstruct.2020.110855>, 2020.9
32. Qi, L., Kunitomo, K., Kurata, M., Ikeda, Y. "Investigating the Vibration Properties of Integrated Ceiling Systems Considering Interactions with Surrounding Equipment," *Earthquake Engineering and Structural Dynamics*, 49(8), 772-793, <https://doi.org/10.1002/eqe.3264>, 2020.7
33. Liu, Y., Tani, M., Kurata, M., Watase, C., Nishiyama, M. "Study on I-Shaped Section Steel Braces Partially Strengthened by Induction Heating," *Engineering Structures*, 210, 110341, <https://doi.org/10.1016/j.engstruct.2020.110341>, 2020.5
34. Skalomenos, K.A., Kurata, M., Nishiyama, M. "Induction-heat treated steel braces with intentional eccentricity," *Engineering Structures*, 211, 2020, 110461, <https://doi.org/10.1016/j.engstruct.2020.110461>, 2020.5
35. Deng, K., Zeng, X., Kurata, M., Zhao, C., Onishi, K. "Damage Control of Composite Steel Beams Using Flexible Gel-Covered Studs," *Journal of Structural Engineering*, 146 (3), [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0002534](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002534), 2020.3.
36. Otsuki, Y., Kurata, M., Skalomenos, K.A., Ikeda, Y. [2019]. "Fragility Function Development and Seismic Loss Assessment of Expansion Joints," *Earthquake Engineering and Structural Dynamic* 48 (9), 1007-1029, <https://doi.org/10.1002/eqe.3171>.
37. Li, X., Kurata, M. [2019]. "Probabilistic updating of fishbone model for assessing seismic damage to beam-column connections in steel moment-resisting frames," *Computer-Aided Civil and Infrastructure Engineering*, 34(9), pp. 790-805, <https://doi.org/10.1111/mice.12429>.
38. Otsuki, Y., Kurata, M., Skalomenos, K.A., Ikeda, Y. [2019]. "Damage sequence and safety margin assessment of expansion joints by shake table testing," *Earthquake Engineering and Structural Dynamic*, 48: 3-26. <https://doi.org/10.1002/eqe.31200>.
39. 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>

40. 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>
41. 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)
42. 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).
43. 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>.
44. 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>
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