

Curriculum Vitae

Professor Dr. Božidar Stojadinović

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Biographical Data

Born **06.10.1962**
Nationality **USA**
Residency **Switzerland**

Education

May 1995 **Ph.D. Civil Engineering** **University of California, Berkeley**
Major: Seismic design and analysis of concrete structures
Minors: Theoretical mechanics, numerical mathematics
Thesis Title: “Seismic Upgrading of Bridge Outrigger Knee Joint Systems”
Thesis advisor: Professor C. R. Thewalt

May 1990 **M.S. Civil Engineering** **Carnegie-Mellon University**
Major: Computer-aided engineering
Thesis Title: “Neural Computing in Civil Engineering”
Thesis advisor: Professor D. R. Rehak

March 1988 **Dipl.Ing. (B.S.) Civil Engineering** **University of Belgrade, Yugoslavia**
Major: Design of concrete structures
Thesis Title: “Cable-Stayed Bridge over River Sava in Belgrade”
Thesis advisor: Professor S. Venečanin

Employment History

2011 – today **Professor**, IBK, D-BAUG, Swiss Federal Institute of Technology (ETH) Zürich
Chair of Structural Dynamics and Earthquake Engineering

2015—2017 **Director**, ETH Risk Center

2015 – 2016 **Head**, Institute of Structural Engineering, ETH Zürich

2011 – today **Visiting Scientist**, ESD, Lawrence Berkeley National Laboratory

2010 – 2010 **Kwang-Hua Visiting Professor**, Department of Civil Engineering, Tongji University, Shanghai, China

2009 – 2011 **Geological Faculty Scientist**, ESD, Lawrence Berkeley National Laboratory

2008 – 2011 **Professor**, CEE Department, University of California Berkeley
Structural Engineering, Mechanics and Materials

2006 – 2009 **Director**, NEES Equipment Site laboratory, University of California Berkeley

2003 – 2008 **Associate Professor**, CEE Department, University of California Berkeley

2000 – 2003 **Assistant Professor**, CEE Department, University of California Berkeley

1995 – 1999 **Assistant Professor**, CEE Department, University of Michigan, Ann Arbor

1990 – 1995 **Graduate Research and Teaching Assistant**, CEE Department, University of California Berkeley

1988 – 1990 **Graduate Research Assistant**, CEE Department, Carnegie-Mellon University

1988 **Research Engineer**, Institute IMS, Belgrade, Yugoslavia

1987 **Graduate Teaching Assistant**, CEE Department, University of Belgrade

Swiss Federal Institute of Technology Zürich

July 2011-present

Professor, Chair of Structural Dynamics and Earthquake Engineering

Performing teaching, research and service duties at the Department of Civil, Environmental and Geomatic Engineering of the Swiss Federal Institute of Technology Zürich (ETHZ). Teaching duties are centered on the core Masters course in Structural Dynamics and two Masters courses in Seismic Design. Research is organized in four areas. The main research concentration is on probabilistic performance-based seismic design of civil structures, specializing in performance-based evaluation and design of community resilience, development of risk governance framework for energy, transportation and critical civil infrastructure. An ongoing research projects in this area is on the development of a stress-test methodology for critical non-nuclear infrastructure. The second research area is the development of the nonlinear dynamics basis for novel structural response modification devices and technologies aimed at improving seismic performance of sensitive infrastructure facilities. Recent research projects in this area are on the investigation of rocking of deformable segmental structural systems and on development of response spectra for inelastic seismically isolated structures. The third concentration area is the behavior and design of steel-concrete composite structural element, structural connections, and structures under seismic, blast and fire loads. A recent project in this research area is on the interaction of bending shear and sliding response mechanism in squat shear walls. The fourth research area is the application of modern information technologies and computer-controlled devices to improve the science and practice of structural engineering. Ongoing research in this area is on the development of new experimental methods, such as the thermo-mechanical hybrid simulation method, to experimentally investigate the response of civil structures under combined action of mechanical and thermal load such as the fire-after-earthquake scenarios. Service duties include those associated with the financial and personnel aspects of the Chair, administrative tasks within the Institute for Structural Engineering (IBK), the ETH Risk Center, and the Department of Civil, Environmental and Geomatic Engineering, and professional education and technology transfer services. An ongoing service project is design and installation of a hybrid simulation facility at the IBK Structural Testing Laboratory at ETHZ. Membership in the ETH Risk Center Steering Committee is an ongoing service assignment.

University of California Berkeley

January 2000–June 2011

Professor of Civil Engineering

Performing teaching, research and service duties at the Department of Civil and Environmental Engineering of the University of California Berkeley and the Earth Science Division of the Lawrence Berkeley National Laboratory. Teaching assignments include two undergraduate (Structural Engineering and Design of Steel Structures) and three graduate courses (Design of Steel and Composite Structures, Behavior of Steel Structures, and Experimental Methods in Structural Engineering). Recent and ongoing funded research projects address: 1) development of probabilistic performance-based seismic design tools for bridge design and evaluation; 2) introduction of next-generation accelerated bridge construction into California bridge design practice; 3) development of probabilistic risk-reduction factor based evaluation procedures for nuclear facility structures; 4) development of a technical basis for US Nuclear Regulatory Commission review of base isolation technologies for nuclear power plant structures; 5) feasibility study of Generation IV nuclear power plant structural design; 6) development of hybrid simulation experimental methods for examination of seismic behavior of structures using NSF's George E. Brown Jr. Network for Earthquake Engineering Simulation (NEES); 7) design and development of the *nees@berkeley* Equipment Site; 8) experimental evaluation and development of fragility models for reinforced concrete bridge columns, reinforced concrete shear walls, and steel moment connections and steel column base connections; 9) simulation of earthquake motion and response of structures in an urban region; and 10) integration of acquired wireless sensor data into a framework for evaluation of the state of the structure after an extreme seismic or blast event. Department service duties are: Director (from 09/2006 until 10/2009) and Associate Director (09/2004 to 09/2006) of the UC Berkeley NEES Equipment Site, member of the UC Berkeley Seismic Review Committee, UC Berkeley representative of the board of CUREE, Member of the UC Berkeley College of Engineering SUPERB committee, and EERI Student Chapter Faculty

Advisor. Professional consulting services include: Consulting Member of the US Nuclear Regulatory Commission Advisory Committee on Regulatory Safeguards for issues related to structural integrity of nuclear power plant structures; external consultant for structural health monitoring systems for Kinometrics Inc.; peer reviewer for the San Francisco Department of Building Inspection.

University of Michigan, Ann Arbor

July 1995–December 1999

Professor of Civil Engineering

Performed teaching, research and service duties at the Department of Civil and Environmental Engineering. Teaching assignments include two undergraduate courses (Solid and Structural Mechanics, and Reinforced Concrete Design) and three graduate courses (Dynamics of Structures, Finite Element Methods in Solid and Structural Mechanics, and Earthquake Engineering). Completed research projects include: 1) development of Free Flange fully restrained steel beam-to-column connection (FEMA-350); 2) examination of reasons for failure of steel moment connections; 3) investigation of seismic behavior and design options for moment-resistant column bases; and 4) applications of augmented reality for detecting and managing hazard imperceptible by human senses. Developed and conducted a short course on Dynamics of Structures at the Black and Veatch Ann Arbor office. Department service duties were: Associate Director of the Structures Laboratory, ASCE Student Chapter Faculty Advisor and member of the departmental Research Committee.

University of California Berkeley

January 1990–June 1995

Graduate Student

Completed requirements for a Ph.D. degree in Civil Engineering. Worked as a project engineer on a SAC Joint Venture project to experimentally analyze the pre-Northridge style steel beam-to-column connections with Professor E. P. Popov. Performed experimental and theoretical analysis of the behavior of existing and upgraded bridge outriggers with Professor C. R. Thewalt. Wrote ArcS, a program for interactive nonlinear analysis of reinforced concrete cross sections. Worked as a Teaching Assistant for two graduate courses: Nonlinear Structural Analysis and Finite Element Methods.

Carnegie-Mellon University

August 1988–December 1989

Graduate Student

Completed requirements for an M.S. degree in Civil Engineering. Examined potential uses of the neural computing paradigm in engineering design and developed sample applications. Assisted in teaching of an undergraduate Structural Analysis course.

Professional Memberships

Earthquake Engineering Research Institute, Member, 1992
American Concrete Institute, Member, 1993
American Society of Civil Engineers, Associate Member, 1995
American Institute of Steel Construction, Member, 1996
Structural Stability Research Council, Member, 1999
Consortium of Universities for Research in Earthquake Engineering, Board Member, 2000
Network for Earthquake Engineering Simulation, Member, 2000

Awards and Honors

2017 ACI Chester Paul Siess Award for Excellence in Structural Research
2006 ACI Fellow
2004 ASCE Walter L. Huber Civil Engineering Research Prize
2003 University of California Berkeley Presidential Chair Fellow Award
1999 NSF CAREER Award: Haptic Models of Large Structures
1999 ASCE/CERF CAREER Award
1997 University of Michigan Presidents Initiative Fund Award
1988 B. Korolija Prize for Outstanding Scholastic Achievement

1987 University of Belgrade Award for Outstanding Academic Achievement

Refereed Journal Publications

1. Stojadinović, B., "A Proposal for a New Cable-Stayed Bridge Near Belgrade", Bulletin of the IMS Institute, July 1988, Vol. 2, No. 1, pp. 47-52, (in Serbian).
2. Thewalt, C. R. and B. Stojadinović, "A Stable Reinforced Concrete Section Analysis Procedure", ASCE, Journal of Structural Engineering, October 1994, Vol. 120, No. ST10, pp. 3012-3024.
3. Thewalt, C. R. and B. Stojadinović, "Behavior of Bridge Outrigger Knee Joint Systems", Earthquake Spectra, EERI, August 1995, Vol. 11, No. 3, pp. 477-509.
4. Thewalt, C. R. and B. Stojadinović, "Evaluation and Upgrading of Outrigger Knee Joints", in Seismic Rehabilitation of Concrete Structures, 1996, ACI Committee 364 & 369 Special Pub. SP-160, paper 14, pp. 275-298.
5. LaFave, J. M., B. Stojadinović and J. K. Wight, "Lab Experiments for Reinforced Concrete Design Course", Concrete International, American Concrete Institute, December 1996, Vol. 18, No. 12, pp. 59-62.
6. Goel, S. C., B. Stojadinović and K. H. Lee, "Truss Analogy for Steel Moment Connections", AISC Engineering Journal, 1997, 2nd Quarter, pp. 43-53.
7. Goel, S. C., S. Leelataviwat and B. Stojadinović, "Steel Moment Frames with Ductile Girder Web Opening", AISC Engineering Journal, 1997, pp. 115-125, 4th Quarter.
8. Khuntia, M., B. Stojadinović and S. C. Goel, "Shear Strength of Normal and High-Strength Fiber Reinforced Concrete Beams without Stirrups", ACI Structural Journal, March/April 1999, Vol. 96, No. 2, pp. 282-289.
9. Stojadinović, B. "Design and Seismic Response of Upgraded Outrigger Knee Joints", in ACI Committee 341 Special Publication SP-187 Seismic Response of Concrete Bridges, July 1999, pp.159-184.
10. Leelataviwat S., S. C. Goel and B. Stojadinović, "Toward Performance-Based Seismic Design of Structures", EERI Earthquake Spectra, August 1999, Vol. 15, No. 3, pp. 435-483.
11. Goel, S. C., K.H. Lee and B. Stojadinović, "Design of Welded Steel Moment Connections using Truss Analogy", AISC Engineering Journal, January 2000, Vol. 37, No. 1, pp. 31-40.
12. Stojadinović, B., S. C. Goel, K.H. Lee, A. G. Margarian and J.-H. Choi, "Parametric Tests on Unreinforced Steel Moment Connections", ASCE Journal of Structural Engineering, January 2000, Vol. 126, No. 1, pp. 40-49.
13. Goel, S. C., K.-H. Lee and B. Stojadinović, "Design of Welded Steel Moment Connections using Truss Analogy", in AISC Steel Tips: Connections for Use in Special Moment Resisting Steel Frames, Roy Becker editor, AISC, July 2000.
14. Khuntia, M. and B. Stojadinović, "Shear Strength of R/C Members without Transverse Reinforcement", ACI Structural Journal, September-October 2001, Vol. 98, No. 6, pp. 648-656.
15. Mackie, K. and B. Stojadinović, "Probabilistic Seismic Demand Model for California Highway Bridges", ASCE Journal of Bridge Engineering, November/December 2001, Vol. 6, No. 6, pp. 468-481.
16. Leelataviwat, S., S. C. Goel and B. Stojadinović, "Energy-based Seismic Design of Structures Using Yield Mechanism and Target Drift", ASCE Journal of Structural Engineering, August 2002, Vol. 128, No. 8, pp. 1046-1054.
17. Choi, J.H., B. Stojadinović and S. C. Goel, "Design of Free Flange Moment Connection", AISC Engineering Journal, January 2003, Vol.29, No. 1, pp. 25-41.
18. Stojadinović, B., "Stability and Low-Cycle Fatigue Limits of Moment Connection Rotation Capacity", Engineering Structures, April 2003, Elsevier Science, 25, pp. 691-700, [https://doi.org/10.1016/S0141-0296\(02\)00178-5](https://doi.org/10.1016/S0141-0296(02)00178-5)
19. Bruneau, M., M. Engelhardt, A. Filiatrault, S.C. Goel, A. Itani, J. Hajjar, R. Leon, J. Ricles, B. Stojadinović and C.-M. Uang, "Review of Selected Recent Research on US Seismic Design and Retrofit Strategies for Steel Structures", Progress in Structural Engineering and Materials, John Wiley and Sons, July-September 2005, Vol. 7, No. 3, pp. 103-114.

20. Mackie, K., and B. Stojadinović, "Post-Earthquake Functionality of Highway Overpass Bridges", *Earthquake Engineering and Structural Dynamics*, January 2006, Vol. 35, No. 1, pp. 77-93.
21. Stojadinović, B., G. Mosqueda, and S. A. Mahin, "Event-Driven Control System for Geographically Distributed Hybrid Simulation", *ASCE Journal of Structural Engineering*, January 2006, Vol. 132, No. 1, pp. 68-77.
22. Mackie, K. and B. Stojadinović, "Fourway: Graphical tool for Performance-Based Earthquake Engineering", *ASCE Journal of Structural Engineering*, August 2006, Vol. 132, No. 8, pp. 1274-1283.
23. Mosqueda, G., B. Stojadinović and S. A. Mahin, "Real-Time Error Monitoring for Hybrid Simulation, Part I: Methodology and Experimental Verification", *ASCE Journal of Structural Engineering*, August 2007, Vol. 133, No. 8, pp. 1100-1108.
24. Mosqueda, G., B. Stojadinović and S. A. Mahin, "Real-Time Error Monitoring for Hybrid Simulation, Part II: Structural Response Modification with Errors", *ASCE Journal of Structural Engineering*, August 2007, Vol. 133, No. 8, pp. 1109-1117.
25. Mackie, K. and B. Stojadinović, "*R*-factor Parameterized Bridge Damage Fragility Curves", *ASCE Journal of Bridge Engineering*, August 2007, Vol. 12, No. 4, pp. 500-510.
26. Mackie, K. and B. Stojadinović, "Performance-Based Seismic Bridge Design for Damage and Loss Limit States", *Earthquake Engineering and Structural Dynamics*, October 2007, Vol. 36, No. 13, pp. 1953-1971.
27. Lee, K. and B. Stojadinović, "A Plastic Collapse Mechanism for Evaluating Rotation Capacity of Fully-Restrained Steel Moment Connections", *Theoretical and Applied Mechanics*, an International Journal of the Serbian Society of Mechanics, January 2008, Vol. 35, No. 1-3, pp. 191-214.
28. Mosqueda, G., B. Stojadinović, J. Hanley, M. Sivaselvan and A. Reinhorn, "Hybrid Simulation with Geographically Distributed Substructures", *ASCE Journal of Structural Engineering*, April 2008, Vol. 134, No. 4, pp.535-543.
29. Kim, T., B. Stojadinović, and A. S. Whittaker, "Seismic Performance of Pre-Northridge Welded Steel Moment Connections to Built-up Box Columns", *ASCE Journal of Structural Engineering*, February 2008, Vol. 134, No. 2, pp. 289-299.
30. Gulec, C. K., A. S. Whittaker and B. Stojadinović, "Shear Strength of Squat Rectangular Shear Walls", *ACI Structural Journal*, July-August 2008, Vol. 105, No. 4, pp. 488-497.
31. Aviram, A., K. R. Mackie and B. Stojadinović, "Effect of Abutment Modeling on the Seismic Response of Bridge Structures", *Earthquake Engineering and Engineering Vibration*, December 2008, Vol. 7, No. 4, pp. 395-402.
32. Yang, T. Y., B. Stojadinović and J.P. Moehle, "Hybrid Simulation of Zipper-Braced Steel Frame under Earthquake Excitation", *Earthquake Engineering and Structural Dynamics*, January 2009, Vol. 38, No. 1, pp. 95-113.
33. Gulec, C. K., A. S. Whittaker and B. Stojadinović, "Peak Shear Strength of Squat Reinforced Concrete Walls with Boundary Barbells or Flanges", *ACI Structures Journal*, May-June 2009, Vol. 106, No. 3, pp. 368-377.
34. Han, S.-W., K.-H. Moon and B. Stojadinović, "Design Equations for Moment Strength of RBS-B Connections", *Journal of Constructional Steel Research*, May 2009, Vol. 65, No. 5, pp. 1087-1095.
35. Yang, T. Y., J. P. Moehle, B. Stojadinović and A. Der Kiureghian, "Seismic Performance Evaluation of Facilities: Methodology and Implementation", *ASCE Journal of Structural Engineering*, Vol. 135, No. 10, pp. 1146-1154, October 2009.
36. Mackie, K. R., J.-M. Wong and B. Stojadinović, "Post-Earthquake Bridge Repair Cost and Repair Time Estimation Methodology", *Earthquake Engineering and Structural Dynamics*, Vol. 39, No. 3, pp. 281-301, March 2010, DOI: 10.1002/eqe.942
37. Aviram, A., K. R. Mackie and B. Stojadinović, "Nonlinear Modeling of Bridge Structures in California", in P. Silva editor, *ACI SP-271 Structural Concrete in Performance-Based Seismic Design of Bridges*, American Concrete Institute, Farmington Hills, MI, July 2010.
38. Mackie, K. R., J.-M. Wong and B. Stojadinović, "Performance-Based Post-Earthquake Repair Metrics for RC Bridges", in P. Silva editor, *ACI SP-271 Structural Concrete in Performance-*

Based Seismic Design of Bridges, American Concrete Institute, Farmington Hills, MI, July 2010.

39. Mackie, K. R., J.-M. Wong and B. Stojadinović, “Bridge Damage and Loss Scenarios Calibrated by Schematic Design and Cost Estimation of Repairs”, EERI Earthquake Spectra, Vol.27, No. 4, pp. 1127-1145, EERI, Oakland, CA, November 2011.
40. Han, S.-W., K.-H. Moon, S.-H. Hwang and B. Stojadinović, “Rotation Capacities of Reduced Beam Section with Bolted Web (RBS-B) Connections”, Journal of Constructional Steel Research, Vol. 70, No. 2, pp. 256-263, March 2012.
41. Yang, T. Y., B. Stojadinović and J. P. Moehle, “Demonstration of a Practical Method for Seismic Performance Assessment of Structural Systems”, EERI Earthquake Spectra, EERI, vol. 28, no. 2, pp. 811-829, May 2012.
42. Tondini, N., and B. Stojadinović, “Probabilistic Seismic Demand Analysis of Curved Bridges”, Bulletin of Earthquake Engineering, vol.10, no. 5, pp. 1455-1479, October 2012.
43. Vassiliou, M. F., A. Tsiavos and B. Stojadinović, “Dynamics of Inelastic Base Isolated Structures Subjected to Analytical Pulse Ground Motions”, Earthquake Engineering and Structural Dynamics, Vol. 42, No. 14, pp. 2043-2060, November 2013. DOI: 10.1002/eqe.2311
44. Aviram, A., B. Stojadinović, G. J. Parra-Montesinos, “High-Performance Fiber-Reinforced Concrete Bridge Columns under Bidirectional Cyclic Loading”, ACI Structural Journal, Vol. 111, No. 2, March-April 2014.
45. Scacchioli, A., A. M. Bayen and B. Stojadinović, “Assessment of Propagation of Uncertainty in Dynamic Response of Structures using Reachability Analysis—Part I: Single-Degree-of-Freedom Systems”, ASCE Journal of Engineering Mechanics, Vol. 140, No. 6., June 2014.
46. Terzic, V. and B. Stojadinović, “Hybrid Simulation of Bridge Response to Three-Dimensional Earthquake Excitation followed by a Truck Load”, ASCE Journal of Structural Engineering, Vol. 140, No. 8, August 2014. [http://dx.doi.org/10.1061/\(ASCE\)ST.1943-541X.0000913](http://dx.doi.org/10.1061/(ASCE)ST.1943-541X.0000913)
47. Whyte, C. and B. Stojadinović, “Effect of Ground Motion Sequence on Behavior of Reinforced Concrete Shear Walls in Hybrid Simulation”, ASCE Journal of Structural Engineering, Vol. 140, No. 8, August 2014. [http://dx.doi.org/10.1061/\(ASCE\)ST.1943-541X.0000912](http://dx.doi.org/10.1061/(ASCE)ST.1943-541X.0000912)
48. Vassiliou, M.F., K.R. Mackie and B. Stojadinović, “Dynamic Response Analysis of Solitary Flexible Rocking Bodies: Modeling and Behavior under Pulse-like Ground Excitation”, Earthquake Engineering and Structural Dynamics, Vol. 43, No. 10, pp. 1463-1481, August 2014. DOI: 10.1002/eqe.2406
49. Marihuen, A., M. A. Hube, J.C de la Llera and B. Stojadinović, “Seismic Behavior of Slender Reinforced Concrete Walls”, Engineering Structures, Vol. 80, pp. 377-388, December 2014, <https://doi.org/10.1016/j.engstruct.2014.09.014>
50. Terzic, V. and B. Stojadinović, “Evaluation of the Post-Earthquake Axial Load Capacity of Circular Bridge Columns”, ACI Structures Journal, Vol. 112, No. 1, pp. 23-34, January 2015.
51. Vögeli, C., N. Mojsilovic and B. Stojadinović, “Masonry Wall Joints with a Soft Layer in Bed Joint: Behavior under Static-Cyclic Loading”, Engineering Structures, vol. 86, pp. 16-22, March 1, 2015, <https://doi.org/10.1016/j.engstruct.2014.12.038>
52. Han, S.-W., Moon, K.-H., Hwang, S.-H. and B. Stojadinović, “Seismic Performance Evaluation of Intermediate Moment Frames with Reduced Beam Section and Bolted Web Connection”, Earthquake Spectra, EERI, vol. 31, no. 2, pp. 895-919, May 2015.
53. Mieler, M., B. Stojadinović, R. Budnitz, M. Comerio and S. Mahin, “A Framework for Linking Community-Resilience Goals to Specific Performance Targets for the Built Environment”, Earthquake Spectra, vol. 31, no. 3, pp. 1267-1283, August 2015. <https://doi.org/10.1193/082213EQS237M>
54. Whyte, C.A. and B. Stojadinović, “Use of High-Precision Digital Displacement Encoder for Hybrid Simulation of Seismic Response of Stiff Specimens”, SEM Experimental Techniques, August 25, 2014, published online, vol. 40, no. 2, pp. 677-688, April 2016.

55. Terzic, V. and B. Stojadinović, “Calibration and Validation of Analytical Models for Predicting the Seismic and Axial-Load Response of Circular Bridge Columns”, *ASCE Journal of Bridge Engineering*, vol. 20, no. 9, pp. September 2015.
56. Whyte, C. A., K. R. Mackie and B. Stojadinović, “Hybrid Simulation of Thermomechanical Structural Response”, *ASCE Journal of Structural Engineering*, vol. 142, no. 2, pp, February 2016, DOI: 10.1061/(ASCE)ST.1943- 541X.0001346
57. Vassiliou, M.F., R. Truniger, and B. Stojadinović, “An analytical model of a deformable cantilever structure rocking on a rigid surface: Development and verification”, *Earthquake Engineering and Structural Dynamics*, Vol. 44, No. 15, pp. 2775–2794, December 2015, DOI: 10.1002/eqe.2608.
58. Truniger, R., M.F. Vassiliou, and B. Stojadinović, “An analytical model of a deformable cantilever structure rocking on a rigid surface: Experimental validation”, *Earthquake Engineering and Structural Dynamics*, Vol. 44, No. 15, pp. 2795–2815, December 2015, DOI: 10.1002/eqe.2609.
59. Didier, M., S. Ghosh and B. Stojadinović, “Vulnerability of the Nepalese Building Stock During the 2015 Gorkha Earthquake”, *Special Issue on Gorkha Earthquake 2015*, *Technical Journal of Nepal Engineers’ Association*, October 2016, Vol. 43-EC30-Issue 1, p. 103-107
60. Vassiliou, M.F., K.R. Mackie and B. Stojadinović, “A Finite Element Model for Seismic Response of Deformable Rocking Frames”, *Earthquake Engineering and Structural Dynamics*, vol. 46, Issue 3, pp. 447-466. March 2017. DOI: 10.1002/eqe.2799
61. Tsiavos, A., K.R. Mackie, M.F. Vassiliou, and B. Stojadinović, “Dynamics of Inelastic Base-Isolated Structures Subjected to Recorded Ground Motions”, *Bulletin of Earthquake Engineering*, vol. 5, no. 4, pp. 1807-1830, April 2017, DOI: 10.1007/s10518-016-0022-5
62. Abbiati, G. and B. Stojadinović, “A procedure for the approximated response history analysis of linear thermoelastic structures”, *Journal of Thermal Stresses*, vol. 40, no. 7, pp. 879-898, May 2017, DOI: 10.1080/01495739.2017.1283972
63. Petrovic, M. N. Mojsilovic and B. Stojadinović, “Masonry walls with a multi-layer bed joint subjected to in-plane cyclic loading: An experimental investigation”, *Engineering Structures*, vol. 143, pp. 189-203, July 2017, <https://doi.org/10.1016/j.engstruct.2017.04.025>
64. Agalianos, A., A. Psychari, M. F. Vassiliou, B. Stojadinović and I. Anastasopoulos, “Comparative Assessment of Two Rocking Isolation Techniques for a Motorway Overpass Bridge”, *Frontiers in Built Environment*, Vol. 3, Article 47, pp. 1-19, August 2007, DOI: 10.3389/fbuil.2017.00047
65. Vassiliou, M.F., S. Burger, M. Egger, J.A. Bachmann, M. Broccardo and B. Stojadinović, “The three-dimensional behavior of inverted pendulum cylindrical structures during earthquakes”, *Earthquake Engineering and Structural Dynamics*, vol. 46, no. 14, pp. 2261-2280, November 2017. DOI: 10.1002/eqe.2903
66. Bachmann, J.A, M. F. Vassiliou, and B. Stojadinović, “Dynamics of rocking podium structures”, *Earthquake Engineering and Structural Dynamics*, vol. 46, no 14, pp. 2499-2517, November 2017. DOI: 10.1002/eqe.2915
67. Didier, M., M. Broccardo, S. Esposito and B. Stojadinović, “A Compositional Demand/Supply Framework to Quantify the Resilience of Civil Infrastructure Systems (Re-CoDeS)”, *Sustainable and Resilient Infrastructure*, published online September 12, 2017, pp. 86-102, no. 2, vol. 3, 2018. <http://dx.doi.org/10.1080/23789689.2017.1364560>
68. Petrovic, M., N. Mojsilovic and B. Stojadinović, “I-shaped unreinforced masonry wallettes with a soft layer bed joint: Behaviour under static-cyclic shear”, *ASCE Journal of Structural Engineering*, vol. 143, no. 11, pp. 1-20, November 2017, [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001884](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001884)
69. Bachmann, J.A, M. Strand, M. F. Vassiliou, M. Broccardo and B. Stojadinović, “Is Rocking Motion Predictable?”, *Earthquake Engineering and Structural Dynamics*, vol. 47, no. 2, pp. 535-552, February 2018, <https://doi.org/10.1002/eqe.2978>
70. Broccardo, M., Mignan, A., Wiemer, S., Stojadinović B., Giardini, D., “Hierarchical Bayesian model for fluid-induced seismicity”, *Geophysical Research Letters*, vol. 44, no. 11, pp. 11357-11367, December 21, 2017, <https://doi.org/10.1002/2017GL075251>

71. Didier, M., S. Baumberger, R. Tobler, S. Esposito, S. Ghosh and B. Stojadinović, “Improving Post-Earthquake Building Safety Evaluation using the 2015 Gorkha, Nepal, Earthquake Rapid Visual Damage Assessment Data”, *Earthquake Spectra*, vol. 33, no. S1, p. S415-S434, December 2017, <http://earthquakespectra.org/doi/abs/10.1193/112916EQS210M>
72. Galanis, P., A. Sycheva, W. Mimra and B. Stojadinović, “A Framework to Evaluate the Benefit of Seismic Upgrading”, *Earthquake Spectra*, Vol. 34, No. 2, pp. 527-548, May 2018, <https://doi.org/10.1193/120316EQS221M>
73. Didier, M., S. Baumberger, R. Tobler, S. Esposito, S. Ghosh and B. Stojadinović, “Seismic Resilience of Water Distribution and Cellular Communication Systems after the 2015 Gorkha Earthquake”, *ASCE Journal of Structural Engineering*, Vol. 144, no. 6, pp 1-11, June 2018, [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0002007](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002007)

Refereed Conference Publications

1. Thewalt, C. R. and B. Stojadinović, "Behavior and Retrofit of Bridge Outrigger Beams", Proceedings, Tenth World Conference on Earthquake Engineering, July 1992, Vol. 9, pp. 5291-5296, Madrid, Spain.
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