

MARIOS PANAGIOTOU, PhD, PE

Structural Systems Engineer at Superblock of Lawrence Livermore National Laboratory

Founder of [Online School of Earthquake Resilient Design](#) and of [Adstran](#)

[My YouTube page](#), [My Google Scholar](#)

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Citizenship: U.S., Greek

BIOSKETCH

[Dr. Marios Panagiotou, PE](#) is a Structural Systems Engineer at Superblock, an essential facility for nuclear operations, of the Lawrence Livermore National Laboratory. He is the founder of the [Online School of Earthquake Resilient Design](#). He was (2015-2025) the Advanced Earthquake Engineering Leader at Nabih Youssef & Associates (NYA), and Assistant Professor of Structural Engineering (2008-2015) at UC Berkeley (UCB). Dr. Panagiotou specializes in the advanced earthquake engineering of complex concrete and steel structures, in structural systems with isolation and energy dissipation devices, as well as in soil-structure-interaction (SSI). He has extensive expertise in earthquake engineering at near-fault sites as well as in the development of nonlinear analysis methods for reinforced concrete structures.

At NYA, Dr. Panagiotou was decisive in NYA's performance-based seismic design (PBSD), and resilience-based seismic design efforts for the firm's most complex projects, mostly at near-fault sites, including reinforced concrete and steel structural systems as well as systems that use seismic isolation and energy dissipation devices. Milestones of his NYA work were the: (1) resilience-based design of the new Long Beach Civic Center; (2) enhanced seismic design of the new Scholarship Tower for the Los Angeles Coliseum; (3) seismic design of the new UCSF hospital incorporating viscous dampers; (4) plan check of the Sofi Stadium; (5) PBSD Peer Review of Neom – The Line; (6) development of fixed-base and seismic isolation concepts for high-rise core wall towers for The Rise, Cupertino; (7) resilience-based seismic design of the Potrero Yard; (8) peer reviews of PBSDs of base isolated museums and various high-rise towers along the West Coast of US.

During his academic tenure at UCB, he conducted computational and experimental research of concrete and earthquake resilient buildings and bridges that use seismic isolation and low-damage rocking components as well as on soil-structure interaction (SSI) and characterization of near-fault ground motions. He has designed and conducted some of the largest seismic experiments, including SSI (funded by Caltrans), ever built worldwide. As part of his PhD studies at UC San Diego, he performed the seismic analysis, design, and shake-table test of a full-scale 7-story building which received the 2012 ASCE Alfred Noble Prize.

He has published 27 journal papers and numerous conference papers and technical reports. He has taught graduate courses at UCB, UCLA, and USC. He was a member of the NIST-FEMA Functional Recovery Project and current member of 2026 NEHRP PUC and of ASCE/SEI 7-28 seismic subcommittee. His work is cited in ASCE 7, ASCE 41, and LATBSDC. He is a co-developer of the seismic analysis framework [BTM in FE-MultiPhys](#) for RC structures as well as of the software [BTM Component](#). He is also author of the [Online Course on Earthquake Resilient Buildings](#).

EDUCATION

- Ph.D. in Structural Engineering, University of California, San Diego, U.S., 2008. Dissertation: Seismic Design, Testing, and Analysis of Reinforced Concrete Wall Buildings.
- M.S. in Structural Engineering, University of California, San Diego, U.S., 2005.
- Diploma in Civil Engineering, National Technical University of Athens, Greece, 2003.

Employment History

2025 – present, Structural Systems Engineer at Superblock of Lawrence Livermore National Laboratory

2015 – 2025, Advanced Earthquake Engineering Leader, Nabih Youssef & Associates

2008 – 2015, Assistant Professor of Structural Engineering, University of California at Berkeley

PROFESSIONAL LICENSES

Professional Civil Engineer, California (License number: 88501, Issue date: 12/19/2017)

AWARDS

- **2012 Alfred Noble Prize** (ASCE, ASME, AIM, IEEE)
- 1st prize for 2022 UCLouvain Blind Prediction Competition on Cyclic Response of U-shaped RC Walls.
- NEESINC Awards: UCSD/PCA/NEESinc Blind Prediction Competition Group, 2006.

PROFESSIONAL SOCIETIES MEMBERSHIP

ASCE, ACI, EERI, SEAOSC, ASSISI

PROFESSIONAL AND ACADEMIC EXPERIENCE

- **Structural Engineer, Lawrence Livermore National Laboratory, 2025/08- present.**
- **Advanced Earthquake Engineering Leader at Nabih Youssef Associates (NYA), 2023/04 – 2025/06.** Advanced nonlinear seismic analysis, PBSD, and resilient design of buildings and other structures, seismic isolation, and energy dissipation. Seismic assessment and retrofits. Applied research and codes development. Business development.
- **Senior Consultant at Nabih Youssef Associates (NYA), 2015/09 – 2023/04.**
- **Founder and Managing Partner of the Advanced Structural Analysis, LLC (Adstran) 2021/10 - present**
- **Founder and Principal of the Online School of Earthquake Resilient Design, 2018/07 - present**
- Adjunct Lecturer (part-time), University of Southern California, 2017/08 – 2018/06.
- Lecturer (part-time), University of California Los Angeles, 2017/04 – 2017/06
- **Assistant Professor, Civil and Environmental Engineering, University of California, Berkeley (UCB), 2008/07 – 2015/08.** Teaching and research on earthquake structural engineering: Analytical and large-scale experimental development of earthquake resilient tall buildings and bridges using isolation, rocking and FRC; High-fidelity computational modeling of RC structures; Soil-structure interaction; Characterization of ground motions.

HIGHLIGHTS OF PROFESSIONAL PRACTICE EXPERIENCE AT NYA (2015-2025)

1. **New UCSF Hospital at Parnassus Heights (1.5M sf, \$4.3B), San Francisco, CA (construction initiated 2024):** Nonlinear seismic analysis and design development including steel SMFs and viscous dampers.
2. **The Renovation of the Los Angeles Coliseum (constructed 2019):** Seismic analysis (3D nonlinear response history) and design of the Scholarship Tower, using buckling restrained braced steel frames.
3. **Long Beach Civic Center (constructed 2021):** Consulting on the nonlinear seismic analysis and resilient seismic design. [Long Beach Civic Center, Resilient Building Design. STRUCTURE magazine. Link to Article](#)
4. **Hollywood Park Stadium, Main Bowl, Plan check.**
5. **Neom – The Line, Saudi Arabia (2024-2025)** Peer Review of Performance-based Seismic Design.
6. **Neom – Trojena, Vault, Saudi Arabia (2024-2025).** Seismic Design of the Structural System
7. **Potrero Yard Modernization (1.25M sf, \$500M), San Francisco, CA (2021-2024):** Resilience-based design
8. **Vallco Town Center (The Rise), Cupertino, CA, 10+ MSF, (2015-2020):** Lead of nonlinear seismic analysis and enhanced designs development including seismic isolation of interconnected high-rise towers.
9. **Neom – Trojena, Discovery Tower, Saudi Arabia (2024).** Wind Analysis and Design Services to Jacobs.

10. **Wrapper 2 Office Tower and Parking Garage, Los Angeles, CA (2022-2023).**
11. **China Basin Landing – Wharf-side Building, 578000 sf, San Francisco.** Nonlinear seismic analysis evaluation
12. **Peer Reviews of Seismic Isolation:** Academy Museum of Motion Pictures; Lucas Museum, California Science Center.
13. **Peer Reviews of PBSDs of High-Rise Towers:** 970 Denny Way, 40-story RC, Seattle; APEX II, 28-story RC, Los Angeles; Potala Tower, 41-story RC, Seattle; 15th and Island, 45-story RC, San Diego.
14. **High-rise PBSD:** Omega Tower, LA; The Lizard Hotel, LA; The Gayley at Wilshire, LA; Tribune Tower, LA.
15. **Seismic Evaluations and Retrofit using Nonlinear Analysis:** 6922 Hollywood Blvd, 9460 Wilshire Blvd.
16. **Peer Reviews of Seismic Retrofits:** NPI UCLA Building
17. **Petrochemical structure in Trinidad:** Consulting SAMSUNG for seismic upgrade schemes.

SEISMIC ANALYSIS FINITE ELEMENT SOFTWARE DEVELOPMENT

Adstran. (2022). BTM Component: Software for the Advanced and Practical Seismic Analysis of Reinforced Concrete Components. www.adstran.com

Panagiotou M. and Koutromanos I. (2020). Advanced and Practical Seismic Analysis of Reinforced Concrete Walls and Building Systems Using the BTM-Shell Methodology in the Program FE-MultiPhys. Online School of Earthquake Resilient Design, Los Angeles, CA, 80 pages. [Link](#)

PROFESSIONAL SERVICE

Technical Committees and Review Panels: SEAOSC and SEAOC Seismology Committee; Voting member of ACI 374; Assoc. member of ACI 447 and ACI 341; U.S. Resiliency Council TAC member. EERI Functional Recovery Working Group. NIST-FEMA Functional Recovery Project Review Panel; PUC IT-5; ASCE/SEI 7-28 seismic subcommittee. **Reviewer for Journals:** ASCE JSE; ASCE Journal of Bridge Eng.; EESD; JEE; Earthquake Spectra; Engineering Structures ; BEE; Bulletin of SSA; Journal of Advanced Concrete Technology; Journal of Earth. Eng. and Eng. Vibration; Computers and Concrete; Mathematical Problems in Engineering; Advances in Mechanical Engineering; Earthquakes and Structures; **Funding Agency Service:** Proposal reviewer for NSF’s CMMI Division (2010). External evaluator for Greek and EU research programs: “Aristeia”, 'Archimedes III', 'Thalis’.

PROPOSALS TO NATIONAL SCIENCE FOUNDATION HIGHLY RECOMMENDED FOR FUNDING

Proposal Number 1208201 (NEESR: Earthquake Resilient Tall Buildings Using Isolation and Re-centering Walls, budget: \$998,740, PI: Panagiotou M., Program solicitation: NSF 11-566, panel of six reviewers).

TEACHING EXPERIENCE

- CEE 537 – “Advanced Reinforced Concrete” (USC graduate course, Fall 2017)
- CEE 599 – “Seismic Protective Systems” (USC graduate course, Spring 2018)
- CEE 247 – “Earthquake Hazard Mitigation” (UCLA, graduate course, Spring 2017)
- CE 223 – “Earthquake Protective Systems” (UCB, graduate course)
- CE 245 – “Behavior of Reinforced Concrete” (UCB, graduate course)
- CE 120 – “Structural Engineering” (UCB, undergraduate course)
- CE 123 – “Design of Reinforced Concrete Structures” (UCB, undergraduate course)

ONLINE COURSES ON EARTHQUAKE STRUCTURAL ENGINEERING

[Course on Earthquake Resilient Buildings](#)

EARTHQUAKE RECONNAISSANCES

2008, M8, Wenchuan, China Earthquake. [Link](#)

PH.D. RESEARCH SUPERVISION (PHD)

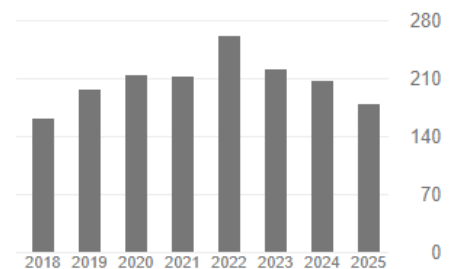
5. **Dr. G. Antonellis**, 2015. “Num. and Exper. Invest. of Bridges with Columns on Rocking Foundations.”
4. **Dr. Y. Lu**, 2014, “3D Seismic Analysis of Reinforced Concrete Wall Buildings at Near-fault Sites.”
3. **Dr. T. Visnjic**, 2014, “Design Considerations for Earthquake-Resistant Special Moment Frames,” (Chair of the Ph.D. dissertation committee: Panagiotou; co-advised with Professor J. Moehle).
2. **Dr. W. Trono**, 2014, “Earthquake Resilient Bridge Columns Utilizing Damage Resistant Hybrid Fiber Reinforced Concrete,” (co-advised with Professor C. Ostertag).
1. **Dr. V. Calugaru**, 2013, “Earthquake Resilient Tall RC Buildings at Near-Fault Sites Using Base Isolation and Rocking Core Walls.”

RESEARCH GRANTS (RG)

9. “Seismic Demand Model of Bridge Piers Supported on Rocking Shallow Foundations,” Pacific Earthquake Engineering Research Center (PEER), 09/15/2013 – 06/30/2014, \$55,466, PI: M. Panagiotou
8. “Experimental Response and Analytical Modeling of Rocking Foundations under Seismic Loading,” CALTRANS, 02/01/2013 to 07/31/2015, \$741,479, PI: Panagiotou, M., [Video of test response](#).
7. “Shaking table test of pre-cast post-tensioned HyFRC bridge column,” PEER, 10/01/2012 – 09/30/2013, \$64,414, PI: C. Ostertag, co-PI: M. Panagiotou. [Video of test response](#).
6. “High Performance Modeling of Seismic Soil-Foundation-Structure Interaction in Tall Buildings,” France-Berkeley Fund, 06/2010 to 07/31/2013, \$10,000, co-PIs: Panagiotou M., Grange S.
5. “Beam Hoop Reinforcement for Large SMRF Beams,” Pankow Foundation, Webcor Builders, ACI Foundation’s CRC, 08/01/10 – 10/31/11, \$108,445, PI: Moehle J.P, co-PI: Panagiotou M. [Video of test response](#).
4. Seismic Response of Reinforced Concrete Buildings with Self-Centering Walls, UC-MEXUS 08/01/09 – 01/31/11, \$25,000, PI: Panagiotou M., co-PI: Rodriguez M.
3. Self-Compacted Hybrid Fiber Reinforced Concrete Composites for Bridge Columns, Pacific Earthquake Engineering Research Center (PEER), 01/01/09 – 12/31/10, \$138,771, PI: Ostertag C.P., co-PI: Panagiotou M.
2. California Institute of Energy Efficiency – California Energy Commission (CIEE-CEC), Analysis of the Seismic Performance of Substation, Post Insulators, 10/01/08 – 09/30/11, \$349,997, Co-PI.
1. Performance-based Evaluation of the Seismic Response of Bridges with Foundation Uplift, Pacific Earthquake Engineering Research Center (PEER), 09/01/09 – 08/31/10, \$69420, PI.

PUBLICATIONS (My Google Scholar)

	All	Since 2020
Citations	2475	1297
h-index	24	21
i10-index	40	29



Journal Publications (JP)

29	Moharrami M., Koutromanos I., Panagiotou M. (2025). Finite Element Modeling of Reinforced Concrete and Composite Structural Walls under High Cyclic Shear Demands. <i>In preparation</i> .	
28	Rodriguez-Burneo A., Panagiotou M., Restrepo J.I., Riad M., Tunick D., Siow E., Elkhoury E., Giammona A., Buckalew J., Navalpakkam S., Gemmill M. (2025). Nonlinear Response History Soil-Structure-Interaction Studies on UCSF Health Helen Diller Hospital Building. <i>In review</i>	
27	Mavros M., Murcia-Delso J., Panagiotou M., Koutromanos I. (2025). Flexural And Torsional Response Analysis of U-Shaped RC Walls Using The BTM Method: Insights From A Blind-Prediction Competition And Post-Test Analyses. <i>Bulletin of Earthquake Engineering</i>	NA
26	Mavros M., Panagiotou M., Koutromanos I., Restrepo JI. (2023). Nonlinear Dynamic Seismic Analysis of a Modern 14-Story RC Core Wall Building System Using the BTM-Shell Methodology. <i>Earthquake Engineering & Structural Dynamics</i> . 2023;52:4416-4441	9
25	Mavros M., Panagiotou M., Koutromanos I., Alvarez R., Restrepo JI. (2022). Seismic Analysis of a Modern 14-Story RC Core Wall Building System Using the BTM-Shell Methodology. <i>Earthquake Eng. Struct. Dyn.</i> Link	22
24	Deng X., Murcia-Delso J., Koutromanos I., Panagiotou M. (2021). Nonlinear Truss Models for Strain-based Seismic Evaluation of Planar RC Walls. <i>Earth Eng Struct Dyn</i> . 50; 2939-2960. <u>Among the most downloaded papers in 2021.</u> Link	26
23	Alvarez R., Restrepo JI, Panagiotou M. (2020). RC Wall Plastic Hinge Out-of-Plane Buckling: Analysis Using the Nonlinear Beam-Truss Model. <i>ASCE Journal of Structural Engineering</i> . Link	19
22	Alvarez R., Restrepo JI, Panagiotou M., Godinez S. (2020). Analysis of Reinforced Concrete Coupled Structural Walls Via the Beam-Truss Model, <i>Engineering Structures</i> . Link	15
21	Alvarez R., Restrepo JI, Panagiotou M., Santhakumar AR(2019). Nonlinear Cyclic Truss Model for Analysis of Reinforced Concrete Coupled Structural Walls, <i>Bulletin of Earthquake Engineering</i> . Link	30
20	Nguyen W., Trono W., Panagiotou M., Ostertag C.P, (2017), "Seismic Response of a Rocking Bridge Column using a Precast-Hybrid-Fiber-Reinforced-Concrete (HYFRC) Tube," <i>Composite Structures</i> . Link	39
19	Lu Y. and Panagiotou M. (2016). Three-dimensional beam-truss model for RC walls and slabs, Part II: Model Description and Validation for Coupled Walls and Slabs," <i>Earthquake Engineering and Structural Dynamics</i> . Link	35
18	Lu. Y, Panagiotou M, and Koutromanos I. (2016). "Three-dimensional beam-truss model for RC walls and slabs, Part I: Model Description and Validation for Individual Walls," <i>Earthquake Engineering and Structural Dynamics</i> . Link	53
17	Visnjic, T., Antonellis G., Panagiotou, M., and Moehle, J. P. (2016). "Large Reinforced Concrete Special Moment Frame Beams under Simulated Seismic Loading," <i>ACI Structural Journal</i> , Vol. 113, Issue 3. Link	11
16	Antonellis G., Gavras A., Panagiotou M., Kutter B., Guerrini G., Sander A., Fox P. (2015). "Shake Table Test of Large-scale Bridge Columns Supported on Rocking Shallow Foundations," <i>ASCE Journal of Geotechnical and Geoenvironmental Engineering</i> . Link	142

15	Moharrami M., Koutromanos I., Panagiotou M., and Girgin S. C. (2014). "Analysis of Shear-Dominated RC Columns Using the Nonlinear Truss Analogy," <i>Earthquake Engineering & Structural Dynamics</i> . Link	47
14	Trono W., Jen, G. Panagiotou, M., Schoettler M., and Ostertag, C. P. (2014). "Seismic Response of a Damage-resistant Recentering Post-tensioned HyFRC Bridge Column," <i>ASCE Journal of Bridge Engineering</i> , published online. Link	120
13	Panagiotou, M., Trono W., Jen G., Kumar P., and Ostertag, C.P. (2014). "Experimental Seismic Response of HyFRC Bridge Columns with Novel Longitudinal Reinforcement Detailing," <i>ASCE Journal of Bridge Engineering</i> , Link	57
12	Antonellis, G., and Panagiotou, M. (2014). "Seismic Response of Bridges with Rocking Foundations Compared to that of Fixed-base Bridges at a Near-Fault Site," <i>Journal of Bridge Engineering (ASCE)</i> , Vol 19, Issue 5. Link	118
11	Lu, Y., and Panagiotou, M. (2014). "Characterization and Representation of Near-fault Ground Motions Using Cumulative Pulse Extraction with Wavelet Analysis," <i>Bulletin of the Seismological Society of America</i> , 104:410-426. Link	64
10	Calugaru, V., and Panagiotou, M. (2014) "Seismic Response of 20-story Base-isolated and Fixed-base RC Structural Wall Buildings at a Near-fault Site," <i>Earthquake Engineering and Structural Dynamics</i> , Vol. 43, Issue 6, pp. 927-948. Link	76
9	Visnjic, T., Panagiotou, M., and Moehle J.P. (2015). "Seismic Response of 20-Story Reinforced Concrete Special Moment Resisting Frame Buildings Designed with Current Code Provisions," <i>Earthquake Spectra</i> , Vol. 31, No. 2. Link	21
8	Lu, Y., and Panagiotou, M. (2014). "Three-Dimensional Nonlinear Cyclic Beam-Truss Model for Reinforced Concrete Non-Planar Walls," <i>ASCE Journal of Struct.Eng.</i> , Vol. 140, No. 3. Link	157
7	Calugaru, V., and Panagiotou, M. (2012). "Response of Tall Cantilever Wall Buildings Subjected to Strong Pulse -Type Seismic Excitation," <i>Earthquake Engineering and Structural Dynamics</i> , Vol. 41, pp. 1301-1318. Link	92
6	Panagiotou, M., Restrepo, J.I., Schoettler, M., and Geonwoo, K. (2012). "Nonlinear Truss Model for Reinforced Concrete Walls," <i>ACI Structural Journal</i> , Vol. 109, No. 2, pp. 205-214. Link	166
5	Moaveni, B., He, X., Conte, J.P., Restrepo, J.I., and Panagiotou M. (2011). "System Identification Study of a Seven-Story Full-Scale Building Slice Tested on the UCSD-NEES Shake Table", <i>ASCE Journal of Structural Engineering</i> , Vol. 137, No. 6. Link	191
4	Panagiotou, M., Restrepo, J.I. (2011). "A Displacement-Based Method of Analysis for Regular Reinforced Concrete Wall Buildings: Application to a Full-Scale 7-Story Building Slice Tested at UC San Diego." <i>ASCE Journal of Struct. Eng.</i> , Vol. 137, No. 6. 2012 Alfred Noble Prize . Link	99
3	Panagiotou, M., Restrepo, J.I., and Conte J.P. (2011). "Shake Table Test of a 7-Story Full Scale Reinforced Concrete Wall Building Slice, Phase I: Rectangular Wall." <i>ASCE Journal of Struct. Engineering</i> , Vol. 137, No. 6. Link	252

2	Panagiotou, M., and Restrepo, J.I. (2009). “Dual-Plastic Hinge Design Concept for Reducing Higher-Mode Effects on High-Rise Cantilever Wall Buildings.” <i>Earthquake Engineering and Structural Dynamics</i> , Volume 38, Issue 12, pp. 1359-1380. Link	155
1	Hoehler, M.S., Panagiotou, M., Restrepo, J.I., Silva, J.F, Floriani, L., Bourgund, U., and Gassner, H. (2009). “Performance of Anchored Pipes in a 7 Story Building During Full-Scale Shake Table Tests.” <i>Earthquake Spectra</i> , Vol 25, Issue 1, pp. 71-91. Link	51

Articles of the Online School of Earthquake Resilient Design

1. Panagiotou M. (2019). “Earthquake Resilience and Functional Recovery of Buildings in the United States: Problem Statement and Technical Solutions” Online School of Earthquake Resilient Design, Los Angeles. [Link](#)

Magazine Publications

1. Veletzos M.J., Panagiotou M., Van Den Einde, L., Restrepo, J.I., and Sahs, S. "On-Site Post Seismic Inspection and Capacity Assessment of Reinforced Concrete Bridge Columns." *Concrete International*, March 2008.
2. Stewart S., Hata O., Youssef N., and Panagiotou M. (2022). Long Beach Civic Center, Resilient Building Design. *STRUCTURE magazine*. [Link to Article](#)

Conference Papers (CP)

48. Rodriguez-Burneo A., Panagiotou M., Restrepo J.I., Riad M., Tunick D., Siow E., Elkhoury E., Giammona A., Buckalew J., Navalpakkam S., Gemmill M. (2025). Nonlinear Dynamic Seismic Soil-Structure-Interaction Studies on UCSF Health Helen Diller Hospital Building. 19th WCSI, Berkeley, California.

47. Rodriguez A., Restrepo J., Gazetas G., Panagiotou M. (2025). Can Springs and Dashpots Truly Capture The Soil-Structure Interaction in High-Rise Buildings Near Major Faults? SEAOC Convention, San Diego, CA.

46. Acero G., Canney N, Shepherd S., Karns J., Hudson M., Aviram A., Panagiotou M., Mokha A., Briceno C., Garcia V., Trifunovic M. (2025). “Seismic Performance and Resilience Comparison of a Three Designs of a Hypothetical 6-story Steel Building in Los Angeles,” SEAOC Convention.

45. Panagiotou M., Riad M., Tunick D., Siow E., Elkhoury E., Giammona A., Buckalew J., Navalpakkam S., Gupta R., Gemmill M., Rodriguez A. (2024). Nonlinear Response History Analysis of The New UCSF Health Helen Diller Hospital: SSI Studies. SEAOC Convention, Portland.

44. Mavros M., Murcia-Delso J., Panagiotou M., Koutromanos I. (2024). Seismic Analysis of RC Nonplanar Walls: Insights From A Blind Prediction Competition And Lessons Learned With The Beam-Truss Model. 18th WCEE. Milan, Italy.

43. Aliasghar Mamaghani M., Albright A., Murcia-Delso J., Koutromanos I., Brandetsas C., Panagiotou M., (2024). Experimental Testing of Non-Ductile RC Walls with and without FRP Retrofit. 18th World Conference on Earthquake Engineering. Milan, Italy.

42. Murcia-Delso J., Koutromanos I., Deng X., Luna P., Panagiotou M., Duarte N. (2024). New Framework for Seismic Evaluation of RC Wall Structures Based on Simulation and Material Strains. 18th World Conference on Earthquake Engineering. Milan, Italy.

41. Panagiotou M., Shepherd S., Mokha A., Hudson M., Acero G., Karns J., Canney N, Briceno C., Garcia V. Gilani A. (2023). “Seismic Performance and Resilience Comparison of a Fixed-base versus Base-isolated Six-story Steel Frame Building at a Near-fault Site in Los Angeles,” 18th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures

40. Mavros M., Panagiotou M., Koutromanos I., Restrepo J., Alvarez R. (2022). Fully Nonlinear Performance-based Seismic Analysis of a Modern RC Core Wall Building in Los Angeles Using the BTM-shell Methodology. 3rd European Conference on Earthquake Engineering & Seismology, Bucharest, Romania.
39. Deng X., Murcia-Delso J., Koutromanos I., Panagiotou M. (2022). Nonlinear truss modeling and strain-based evaluation of RC walls considering lap-splice failure effects . 3rd European Conference on Earthquake Engineering & Seismology, Bucharest, Romania.
38. Panagiotou M., Mavros M., Koutromanos I., Alvarez R., Restrepo J., Acero G., Tunick D., Kirkpatrick D., Wilkerson R., Hata O., Gemmill M. (2022). Evaluation of Standard Nonlinear Seismic Analysis for a Modern Concrete Core Wall Building in Los Angeles, SEAOC Convention. Indian Wells.
37. Ioannis Koutromanos, Marios Mavros, Marios Panagiotou, Jose I. Restrepo & Rodolfo Alvarez. (2022). Computational Performance Assessment and Failure Analysis of Reinforced Concrete Wall Buildings Under Seismic Loads, RILEM International Conference on Numerical Modeling Strategies for Sustainable Concrete Structures, SSCS 2022: Numerical Modeling Strategies for Sustainable Concrete Structures pp 187–196. [Link](#)
36. M. Mavros, M. Panagiotou, I. Koutromanos, R. Alvarez and J. I. Restrepo. (2022). Computational Fully Nonlinear Seismic Performance Investigation of a Modern 14-story Core Wall Building in Los Angeles. 12th National Conference on Earthquake Engineering, Salt Lake City, Utah.
35. X. Deng , J. Murcia-Delso , I. Koutromanos and M. Panagiotou. (2022). Advanced Seismic Evaluation of RC Structural Walls Using Nonlinear Truss Models. 12th National Conference on Earthquake Engineering, Salt Lake City, Utah.
34. Panagiotou M., Koutromanos I., Mavros M., Deng X., Alvarez R., Restrepo J.I., Murcia-Delso J., Acero G. (2021). Nonlinear Beam-Truss Model (BTM) for Seismic Performance Evaluation of Reinforced Concrete Wall Buildings. 2021 SEAOC Convention Proceedings, San Diego, California.
33. Panagiotou M. (2017), “Seismic Response of Medium-rise and Tall RC Core-Wall Buildings at Near-fault Regions and Simplified Calculation of Design Demands,” Proceeding of Annual Conference of Los Angeles Tall Buildings Seismic Design Council. [Link](#)
32. Visnjic T., Panagiotou M, Moehle J.P. (2017). “Estimating Seismic Shear in Columns of RC Special Moment Frames,” 14th World Conference on Earthquake Engineering, Chile.
31. Moharrami M., Koutromanos I., and Panagiotou M., and Girgin S. (2017). “Analysis of Shear-Dominated Columns Using the Nonlinear Truss Analogy,” 14th World Conference on Earthquake Engineering, Chile.
30. Moharrami M., Koutromanos I., and Panagiotou M. (2015). “Nonlinear Truss Modeling Method for the Analysis of Shear Failures in Reinforced Concrete and Masonry Structures. ATC&SEI 2nd Conference on Improving the Seismic Performance of Existing Buildings and Other Structures, December, San Francisco.
29. Lu. Y., and Panagiotou M. (2015). “Earthquake Damage Resistant Tall Buildings at Near Fault Regions Using Base Isolation and Rocking Core Walls,” Structures Congress, Portland, Oregon. [Link](#)
28. Antonellis G., Gavras G., Panagiotou M., Kutter B., Sander A., Guerrini G., Fox P. (2014). “Shake Table Test Response of Large Scale Bridge Columns Supported on Rocking Shallow Foundations,” 10th National Conference on Earthquake Engineering (10NCEE), Anchorage, Alaska.
27. Lu Y. and Panagiotou M. (2014). “Characterization and Representation of Strong Near-Fault Ground Motions Using Wavelet-Based Cumulative Pulse Extraction,” 10th National Conference on Earthquake Engineering (10NCEE), Anchorage, Alaska.
26. Lu. Y., and Panagiotou M. (2014). “Earthquake Damage Resistant Multistory Buildings Using Combination of Base Isolation and Rocking Core Walls,” 1st Huixian International Forum on Earthquake Engineering, Harbin, China, August 16-19.

25. Schoettler M., Eberhard M., Mahin S., Mosalam K., Ostertag C., Panagiotou M., Restrepo J., Stanton J., and Terzic V. (2013). "Advancing the Performance of Bridge Columns: Overview of a Shake Table Test Program," 7th National Seismic Conference on Bridges and Highways, Oakland, California.
24. Girgin S., Lu Y., Panagiotou M. (2013). "Nonlinear Cyclic Truss Model for Shear-Critical Reinforced Concrete Columns," 2nd Turkish Conference on Earthquake Engineering and Seismology – TDMSK -2013 September 25-27, 2013, Antakya, Hatay/Turkey
23. Visnjic T., Panagiotou M., Moehle J.P., Antonellis G. (2013). "Experimental Investigation of Large Reinforced Concrete Special Moment Resisting Frame Beams," 10th International Conference on Urban Earthquake Engineering, Tokyo Japan (**Best Presentation Award for Young Researchers - Ms. T. Visnjic – in the Area of Structural Engineering-Concrete**).
22. Trono W., Jen G., Ostertag C., Panagiotou M. (2013). "Seismic Response of a Rocking, Post-Tensioned HyFRC Bridge Column," 10th International Conference on Urban Earthquake Engineering, Tokyo Japan.
21. Lu Y., Panagiotou M. (2013). "Three-Dimensional Nonlinear Beam-Truss Model for Non-Planar Reinforced Concrete Walls," 10th International Conference on Urban Earthquake Engineering, Tokyo Japan.
20. Visnjic T., Panagiotou M., Moehle J.P. (2012). "Seismic Response of Two 20-Story Reinforced Concrete Special Moment Frames Designed with Current Code Provisions," 15th World Conference on Earthquake Engineering, Lisbon, Portugal.
19. Trono W., Jen G., Ostertag C., Panagiotou M. (2013). "Tested and Modeled Seismic Response of a Rocking, Post-tensioned HyFRC Bridge Column," 7th National Seismic Conference on Bridges and Highways, Oakland, California.
18. Calugaru, V., and Panagiotou, M. (2011). "Earthquake-Resistant Tall Reinforced Concrete Buildings Using Seismic Isolation and Rocking Core-Walls" The 4th Japan – Greece Workshop, Seismic Design, of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage, Kobe, Japan, October 6-7, 2011.
17. Calugaru, V., and Panagiotou, M. (2011). "Seismic Isolation of Tall Cantilever Wall Buildings Using One or More Isolation Planes" 8th International Conference on Urban Earthquake Engineering, March 7-8, 2011, Tokyo Institute of Technology, Tokyo, Japan.
16. Calugaru, V., and Panagiotou, M. (2010). "Seismic Isolation Using Single and Dual Shear Hinging of Tall Cantilever Wall Buildings Subjected to Near Fault Ground Motions." 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto, July 25-29.
15. Panagiotou, M., Calugaru, V., and Visnjic, T. (2009). "Higher Mode Effects on the Seismic Response of Tall Cantilever Wall Buildings Subjected to Near Fault Ground Motions." 78th SEAOC Annual Convention, September 23-26, San Diego, CA.
14. Barbosa, A.R., Panagiotou, M., Conte, J.P., and Restrepo, J.I. "Comparison of Dynamic Strut-and-Tie and Fiber Beam-Column Models for the UCSD Seven-Story Full-scale Building Slice Test." in Proceedings of the Sixth International Conference on Urban Earthquake Engineering, Tokyo, Japan, March 2009.
13. Moaveni, B., Barbosa, A.R., Panagiotou, M., Conte, J.P., Restrepo, J.I. "Uncertainty Analysis of Identified Damping Ratios in Nonlinear Dynamic Systems." In Proceedings of the 27th International Modal Analysis Conference (IMAC-XXVII), Orlando, Florida, USA, February 2009. Society for Experimental Mechanics.
12. Panagiotou, M., and Restrepo, J.I., "Lessons Learnt from the UCSD Full-scale Shake Table Testing on a 7-Story Residential Building Slice." SEAOC convention, Lake Tahoe, September 26-29, 2007.
11. Panagiotou, M., and Restrepo, J.I., "A modification of the equivalent lateral force procedure for use in performance based seismic design of high rise buildings". 12th U.S.-Japan Workshop on Structural design and Construction Practices, September 10 - 12, Hawaii, 2007.

10. Hoehler, M.S., Silva, J.F., Floriani, L., Bourgund, U., Gassner, H., Restrepo, J.I., Panagiotou, M., “Full-scale shake table test of pipes anchored in a 7-story RC building.” FIP Symposium on "Connections between Steel and Concrete.” Stuttgart, Germany, September 2007.
9. Panagiotou, M., Restrepo, J.I. (2006). Model Calibration for the UCSD 7-Story Building Slice. NEES/UCSD Seminar on Analytical Modeling of Reinforced Concrete Walls for Earthquake Resistance, La Jolla, California, USA,
8. Panagiotou, M., Restrepo, J.I., Conte, J.P., and Englekirk, R.E., “Shake Table Response of a Full Scale Reinforced Concrete Wall Building Slice.” Structural Engineering Association of California Convention, Long Beach, CA, USA, September, 2006.
7. Panagiotou, M., Restrepo, J.I., and Englekirk, R.E., “Experimental Seismic Response of a Full Scale Reinforced Concrete Wall Building.” First European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland, 3-8 September, 2006.
6. Yang, F., Panagiotou, M., Bock, Y., Conte, J.P., and Restrepo, J.I., “Shake Table Tests of a Full Scale Reinforced Concrete Wall Building: Integration of Real Time 50 Hz GPS Displacements and Accelerometer Data.” 4th World Conference on Structural Control and Monitoring, San Diego, California, USA, July, 2006.
5. Panagiotou, M., Restrepo, J.I., and Englekirk, R.E., “Seismic Response of Reinforced Concrete Wall Buildings.” 2nd International fib Congress, Naples, Italy, June, 2006.
4. Panagiotou, M., Restrepo, J.I., Conte, J.P., and Englekirk, R.E., “Seismic Response of Reinforced Concrete Wall Buildings.” 8th National Conference of Earthquake Engineering, San Francisco, CA, USA, April, 2006.
3. Psarropoulos, P., Panagiotou, M., Gantes, C.J., Gazetas, G., “Dynamic Interaction between Soil and Wind Turbines.” 5th National Conference of Geotechnical and Geoenvironmental Mechanics, Ksanthi, Greece, May, 2006.
2. Panagiotou, M., Psarropoulos, P., Gantes, C.J., Gazetas, G., “The role of Dynamic Soil-Foundation-Structure Interaction in the Design of Wind Turbine Towers.” 5th National Conference of Steel Structures, Ksanthi, Greece, September, 2005.
1. Gantes, C.J., Panagiotou, M., and Fragopoulos, T. “Influence of Initial Imperfections for the Design of Buckling-Prone Structures.” ICES’03: International Conference on Computational & Experimental Engineering and Sciences, Corfu, Greece, July, 2003.

Technical Reports

29. Panagiotou M. and Koutromanos I. (2020). Advanced and Practical Seismic Analysis of Reinforced Concrete Walls and Building Systems Using the BTM-Shell Methodology in the Program FE-MultiPhys. Online School of Earthquake Resilient Design, Los Angeles, CA, 80 pages. [Link](#)
28. Gavras Andreas, Antonellis Grigorios, Panagiotou Marios, and Kutter, Bruce L. (2015). “Analytical and Experimental Development of Bridges with Foundations Allowed to Uplift- Part II: Analytical Studies” Report to California Department of Transportation.
27. Lu. Y, Panagiotou M., and Koutromanos I. (2014). “Three-dimensional Beam-Truss Model for RC Walls and Slabs Subjected to Cyclic Static or Dynamic Loading,” Pacific Earthquake Engineering Research Center. PEER report 2014/18. [Link](#)
26. Nguyen W., Trono W., Panagiotou M., Ostertag C. P. (2014). “Seismic Response of a Hybrid Fiber-Reinforced Concrete Bridge Column Detailed for Accelerated Bridge Construction,” PEER 2014/09. Pacific Earthquake Engineering Research Center.
25. Antonellis, Grigorios; Gavras, G. A.; Panagiotou, Marios; Kutter, Bruce L.; Guerrini, Gabriele; Sander, A.; Fox, P. J.; Restrepo, Jose I.; Mahin, Stephen A. “Shake-table test response of bridge columns supported on rocking shallow foundations,” Report No. UCB/SEMM-2014/07, Department of Civil and Environmental Engineering, UC

Berkeley, Berkeley, USA.

24. Co-author of Chapter 1 (Strong Motion Records) of the report: “PEER Preliminary Notes and Observations on the August 24, 2014, South Napa Earthquake,” Editors: G. S. Kang and S. A. Mahin, Pacific Earthquake Engineering Research Center, Report No. 2014/13.

23. Lu Y. and Panagiotou M. (2013). “Nonlinear Seismic Site Response and Soil Foundation Structure Interaction of a 20-story Structural Wall Building Subjected to Pulse-like Excitation.” Report No. UCB/SEMM-2013/08, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

22. Panagiotou M., Visnjic T., Antonellis G., Galanis P., Moehle J.P. (2013). “Effect of Hoop Reinforcement Spacing on the Cyclic Response of Large Reinforced Concrete Special Moment Frame Beams,” Pacific Earthquake Engineering Research Center, PEER report 2013/16. [Link](#)

21. Antonellis, G., and Panagiotou, M. (2013). “Seismic Design and Performance of Bridges with Columns Supported on Rocking Foundations,” Pacific Earthquake Engineering Research Center, PEER report 2013/21.

20. Antonellis, G., and Panagiotou, M. (2013). "Seismic Responses of Bridges with Rocking Foundations at a Near-Fault Site," UCB/SEMM-2013/04, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

19. Zimmerman R. B., Panagiotou M., and Mahin S. (2013). “Numerical modeling and seismic retrofit for shear failure in reinforced concrete columns Report No. UCB/SEMM-2013/03, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

18. Trono W., Jen, G. Ostertag, C. P., and Panagiotou, M. (2013). "Shake-table Test Response of a Rocking Post-tensioned HyFRC Bridge Column," Report No. UCB/SEMM-2013/02, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

17. Lu, Y., and Panagiotou, M. (2013). “Characterization and Representation of Pulse-like Ground Motions Using Cumulative Pulse Extraction via Wavelet Analysis,” Report No. UCB/SEMM-2013/01, CEE Department, UC Berkeley, Berkeley, USA.

16. Calugaru, V., and Panagiotou, M. (2012). “Seismic Response of 20-story Base-isolated and Fixed-base RC structural wall buildings subjected to near-fault ground shaking,” Report No. UCB/SEMM-2012/03, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

15. Visnjic, T., Panagiotou, M., and Moehle J.P. (2012). “Seismic Response of four 20-Story Reinforced Concrete Special Moment Resisting Frames Designed with Current Code Provisions,” Report No. UCB/SEMM-2012/02, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

14. Lu, Y., and Panagiotou, M. (2012). “Three-Dimensional Cyclic Beam-Truss Model for Non-Planar Reinforced Concrete Walls,” Report No. UCB/SEMM-2012/01, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

13. Restrepo J.I, and Panagiotou M. (2011). Computational Models for the UCSD 7-Story Structural Wall Building Slice. Report No. SSRP-07/09. Department of Structural Engineering, UCSD.

12. Calugaru, V., and Panagiotou, M. (2011). “Earthquake-resistant and Resilient Tall Reinforced Concrete Buildings Using Base Isolation and Rocking Core-walls,” Report No. UCB/SEMM-2011/09, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, USA.

11. Calugaru, V., and Panagiotou, M. “Response of Tall Cantilever Wall Buildings to Strong Pulse – Type Seismic Excitation” Report No. UCB/SEMM-2011/05, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, 2011.

10. Panagiotou, M., Restrepo, J. I., “Nonlinear Cyclic Truss Model for Strength Degrading Plane Stress Reinforced Concrete Elements,” Report No. UCB/SEMM-2011/01, Department of Civil and Environmental

Engineering, UC Berkeley, Berkeley, 2011.

9. Kumar, P., Jen, G., Trono, W., Lallemand, D., Panagiotou, M., Ostertag, C.P., "Self Compacting Hybrid Fiber Reinforced Concrete Composites for Bridge Columns" Pacific Earthquake Engineering Research Center, PEER report 2011/106, September 2011.

8. Panagiotou, M., Genwoo, K., Barbosa, A.R., and Restrepo, J.I., "Response Verification of a Reinforced Concrete Bearing Wall Building Located in an Area of High Seismic Hazard." Portland Cement Association Research and Development, Serial No. SN2961, Illinois, 2009.

7. Veletzos M., Panagiotou M, Restrepo J., Sahs S. (2008). Visual Inspection & Capacity Assessment of Earthquake Damaged Reinforced Concrete Bridge Elements. Caltrans, Division of Research & Innovation, Report CA08-0284.

6. Panagiotou, M., Genwoo, K., Barbosa, A.R., and Restrepo, J.I., "Response Verification of a Reinforced Concrete Bearing Wall Building Located in an Area of High Seismic Hazard." SSRP Report 2008/05. UCSD - Department of Structural Engineering, La Jolla, California, 2008.

5. Panagiotou, M., Geonwoo, K., Barbosa, A., Restrepo, J.I., "Response Verification of a Reinforced Concrete Bearing Wall Building Located in an Area of High Seismic Hazard." Report to PCA, September, 2007.

4. Panagiotou, M., Restrepo, J.I., and Conte, J.P., "Shake table test of a 7-story full scale reinforced concrete structural wall building slice – Phase II: T-wall section." Report No SSRP-07/08, University of California, San Diego, 2007.

3. Panagiotou, M., Restrepo, J.I. and Conte, J.P., "Shake table test of a 7-story full scale reinforced concrete structural wall building slice – Phase I: Rectangular wall." Report No SSRP-07/07, University of California, San Diego, 2007.

2. Veletzos, M.J., Panagiotou, M., and Restrepo, J.I., "Post Seismic Inspection and Capacity Assessment of Reinforced Concrete Bridges." University of California San Diego, Structural Systems Research Project, La Jolla, CA, July, 2006.

1. Restrepo, J.I., Panagiotou, M., "Bart Aerial Guideway Shear Key Tests." University of California San Diego, Department of Structural Engineering, La Jolla, CA, October, 2005.

INVITED PRESENTATIONS

60. Moharrami M., Koutromanos I., Panagiotou M., Restrepo J.I. (2025). A Simulation Framework for Damage and Failure of RC and Composite Structural Walls Under Cyclic Lateral Loading. EMI Conference, Anaheim.

59. Rodriguez A., Panagiotou M., Restrepo J., Riad M., Tunick D., Siow E., Elkhoury E., Giammona A., Buckalew J., Navalpakkam S., Gemmill M., (2024). Nonlinear Soil-Structure-Interaction Studies for the New UCSF Health Hellen Diller Hospital Building. ACI 374 Committee. ACI Fall Convention, Philadelphia.

58. Panagiotou M. (2024). "Resilience-based Seismic Design of Buildings at Near-fault Sites" Online to the SEAOC State Seismology Committee, February 16.

57. Panagiotou M., Canney N, Mokha A., Hudson M., Karns J. Acero G., Shepherd S., Briceno C., Garcia V. (2023), "Seismic Performance and Resilience Comparison of a 6-story Steel Building Considering Three Designs: SMF, Base Isolated SMF, SMF with Viscous Dampers," Online to the SEAOC State Seismology Committee, November 3.

57. Panagiotou M., Canney N, Mokha A., Gilani A., Hudson M., Karns J. Acero G., Shepherd S., Briceno C., Garcia V. (2023), "Seismic Performance and Resilience Comparison of a 6-story Steel Building Considering Three Designs: SMF, Base Isolated SMF, SMF with Viscous Dampers," Online to the SEAOC State Seismology

Committee, June 6.

56. Panagiotou M., Koutromanos I., Restrepo J. (2023), “Beam-Truss Model for Seismic Damage and Failure Analysis of RC Components and Building Systems” ACI 447 Committee. ACI Convention, San Francisco.
55. Panagiotou M., Koutromanos I., Restrepo J. (2023), “Beam-Truss Model for Seismic Damage and Failure Analysis of RC Components and Building Systems” ACI 369 Committee. ACI Convention, San Francisco.
54. Panagiotou M., Koutromanos I., Restrepo J. (2023), “Beam-Truss Model for Seismic Damage and Failure Analysis of RC Components and Building Systems” ACI 447 Committee. ACI Convention, San Francisco.
53. Panagiotou M., Mavros M., Koutromanos I., Alvarez R., Restrepo J. (2022), “Beyond Standard Nonlinear Seismic Analysis of RC Wall Buildings Using the Beam-Truss Model (BTM),” SEAOC Seismology Committee Meeting at the SEAOC Convention, Indian Wells, California.
52. Panagiotou M. “Advanced Performance-based Seismic Analysis of RC Wall Buildings Using the Beam-Truss Model (BTM),” (2021). Online Presentation to the Green Construction Research and Training Centre (GCRTC) of the University of British Columbia, Canada.
52. Mavros M., Panagiotou M, Koutromanos I., Alvarez R., Restrepo J. (2021), “Nonlinear beam-truss models for the seismic performance evaluation of multi-story RC wall building systems,” Engineering Mechanics Institute Conference, Virtual Event, May 25-28.
51. Koutromanos I., Panagiotou M, Xianjue D., Murcia-Delso J. (2021), “Truss Modeling Approach for Advanced Seismic Analysis and Evaluation of RC Wall Components and Systems,” Engineering Mechanics Institute Conference, Virtual Event, May 25-28.
50. Panagiotou M. (2021). “Analysis, Design, and Large-scale Experimental Testing of Earthquake Resilient Buildings and Bridges at Near-fault Sites,” Webinar, Department of Civil Engineering, University of Patras, Greece.
49. Panagiotou M. (2020). “Advanced Seismic Analysis of Reinforced Concrete Components and Building Systems Using the Beam-Truss-Model,” Webinar, Opensees Workshop, Turkish Association of Earthquake Engineering, December.
48. Panagiotou M. “Improving the Earthquake Functional Recovery of RC Wall Buildings: Analysis, Design, and Large-scale Testing,” SEAOSC Webinar, 2020 Year-End Technical Summit - Part 2, June 17, 2020.
47. Harden C. and Panagiotou M. “Recent Seismic Design Guide Implementation for Spread Footings,” Workshop 1030, Increased Use of Spread Footings on Soils to Support Highway Bridge Projects, Presentation P19-20125, Transportation Research Board, TRB 98th Annual Meeting, January 13–17, 2019
46. Panagiotou M., Lu Y., Koutromanos I. (2017). Nonlinear Seismic Analysis of RC Wall Buildings Using the Beam-truss Model, Technical Session of the ACI 447 Committee, ACI Convention.
45. Panagiotou M, (2017), “Seismic Response of Medium-rise and Tall RC Core-Wall Buildings at Near-fault Regions and Simplified Calculation of Design Demands,” Proceeding of Annual Conference of Los Angeles Tall Buildings Seismic Design Council.
44. Mohammadreza Moharrami (presenter), Ioannis Koutromanos, Marios Panagiotou Analysis of shear-dominated reinforced concrete columns and masonry walls using nonlinear truss models
43. Yuan Lu (presenter), Marios Panagiotou. Three-dimensional seismic analysis and design of damage resistant tall rocking core wall buildings. EMI Conference, Stanford, CA, June 2015.
42. Andreas G. Gavras, (presenter) Grigorios Antonellis, Marios Panagiotou, Bruce L. Kutter. “Displacement-based design and nonlinear analysis of bridges with rocking foundations and plastic hinges at the top of the columns.” EMI Conference, Stanford, CA, June 2015.
41. Grigorios Antonellis, Andreas Gerasimos Gavras (presenter), Marios Panagiotou, Bruce Lloyd Kutter. “Shake

table test of large-scale bridge columns with rocking foundations.” EMI Conference, Stanford, CA, June 2015.

40. Earthquake-resilient Tall Buildings and Highway Bridges at Near-fault Regions Using Isolation and Rocking Components, Nabih Youssef and Associates, Los Angeles, April 2015.

39. Earthquake-resilient Tall Buildings and Highway Bridges at Near-fault Regions Using Isolation and Rocking Components, Thornton Tomasetti, San Francisco, April 2015.

38. Earthquake-resilient Tall Buildings and Highway Bridges Using Isolation and Rocking Components, Izmir Technical Chamber of Civil Engineering, Izmir, Turkey, January, 2015.

37. Earthquake-resilient Multistory Buildings Using Base Isolation and Rocking Core-walls, 6th Kwang-Hua Forum, Shanghai, China, December 2014.

36. Three-dimensional Seismic Analysis of 20-story Tall RC Wall Buildings with Conventional or Rocking Core-Walls,’ presentation to ACI 374 Committee, ACI Fall 2014 Convention, Washington DC.

35. “Characterization and Representation of Near-fault Pulse-like Ground Motions and their Effect on Nonlinear Structural Response: Implications for Damage-Resistant Design of Structures in Cephalonia,” International Workshop on Seismic Hazard and Earthquake Engineering, September 24-25, 2014, Cephalonia, Greece.

34. “Earthquake Damage Resistant Multistory Buildings Using Combination of Base Isolation and Rocking Core Walls,” 1st Huixian International Forum on Earthquake Engineering, Harbin, China, August 16-19, 2014.

33. “Earthquake Resilient Design of Reinforced Concrete Tall Buildings and Highway Bridges at Near Fault Regions,” Macau University, Macau, China, March 28th, 2014.

32. “Seismic Analysis Design and Retrofitting of Multistory Buildings at Near Fault Regions,” Hong Kong Architecture Services Department, Hong Kong, China, March 27th, 2014.

31. “Three-dimensional Seismic Analysis of Tall Reinforced Concrete Wall Buildings at Near Fault Regions and Seismic Design Implications,” Hong Kong Institute of Steel Construction, Hong Kong, China, March 26th, 2014.

30. “Earthquake Resilient Design of Reinforced Concrete Tall Buildings and Highway Bridges at Near Fault Regions,” Arup Hong Kong, Hong Kong, China, March 26th, 2014.

29. “Earthquake Resilient Design of Reinforced Concrete Tall Buildings and Highway Bridges at Near Fault Regions,” Department of Civil Engineering, Hong Kong University of Science and Technology, Hong Kong, China, March 25th, 2014.

28. “Three-dimensional Seismic Analysis of Reinforced Concrete Wall Buildings and Seismic Design Implications,” ACI 374 Committee, Reno, Nevada, March 24th, 2014. (Presentation given by Ms. Y. Lu)

27. “Earthquake Resilient Design of Reinforced Concrete Tall Buildings and Highway Bridges at Near Fault Regions,” Department of Civil Engineering, Hong Kong University, Hong Kong, China, March 24th, 2014.

26. “Earthquake Resilient Design of Reinforced Concrete Tall Buildings and Highway Bridges at Near Fault Regions,” Department of Civil and Environmental Engineering, Nanyang Technological University, Singapore, February 24th, 2014.

25. “Foundation Rocking as a Bridge Seismic Design Strategy,” Northridge20 Symposium, January 16-17, Los Angeles, California.

24. “Using Base Isolation and Rocking for Earthquake Resilient Design of Structures in Near Fault Regions,” 10th NEES/E-Defense meeting, December 11-13, 2013, Kyoto, Japan.

23. “Three Dimensional Beam Truss Model of Reinforced Concrete Core Walls Under Seismic Loading,” ACI Committee 447, ACI Fall 2013 Convention, Phoenix.

22. “Experimental Shake Table Test Response of Bridge Columns Supported on Rocking Shallow Foundations,”

ACI Committee 341, ACI Fall 2013 Convention, Phoenix.

21. “Using Seismic Isolation and Rocking to Design Buildings and Bridges in Near-Fault Regions,” FORELL/ELSESSER ENGINEERS INC., San Francisco, California, June 2012.

20. “Large-scale Shake Table Tests of Bridge Piers and Seismic Response of Bridges with Rocking Foundations,” Workshop on design, analysis, and research related to highly nonlinear SSI including rocking foundations – an outcome of the NSF grant funded through the NEESR program. Workshop Steering Committee: B. Kutter, T. Hutchinson, L. Mejia, M. A. Moore. June 7-8, 2013, URS Corporation, Oakland, California.

19. “Using Base Isolation and Rocking for Earthquake Resilient Design of Structures in Near Fault Regions,” Presentation to Advisory Council of CEE Department of University of California, Berkeley. Berkeley, April 2013.

18. “Displacement-Based Design and Experimental Results of a Full-Scale 7-Story Building Slice Tested at UC San Diego.” ACI-374 Committee, ACI Spring 2012 Convention, Dallas, March 19th, 2011.

17. “Earthquake Resistant and Resilient Tall Buildings Using Seismic Isolation and Rocking Core Walls,” SEMM seminar, Seismology & Structural Standards Committee of SEAONC, November 2011.

16. “Earthquake Resistant and Resilient Tall Buildings Using Seismic Isolation and Rocking Core-Walls,” SEMM seminar, October 2011.

15. “Earthquake Resistant and Resilient Tall Buildings Using Seismic Isolation and Rocking Core-Walls,” The 4th Japan – Greece Workshop, Seismic Design, of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage, Kobe, Japan, October 6-7, 2011.

14. “Seismic Performance of Bridges with Foundations Designed to Uplift,” Pacific Earthquake Engineering Research Center Annual Meeting, October 2011.

13. “Earthquake-Resistant and Resilient Tall Buildings Using Seismic Isolation and Rocking Core-Walls,” Pacific Earthquake Engineering Research Center Annual Meeting, October 2011.

12. “Inelastic Deformation, Shear Force Seismic Demands in Tall RC Wall Buildings and Dual Plastic Hinge Design Approach,” ACI 318-0H Subcommittee of ACI 318, ACI Fall 2011 Convention, Cincinnati, Ohio, October, 2011.

11. “Performance-based Evaluation of the Seismic Response of Bridges with Foundation Uplift.” NEES&PEER Annual Meeting, San Francisco, CA, October 8-9, 2010.

10. “Displacement-Based Design and Experimental Results of a Full-Scale 7-Story Building Slice Tested at UC San Diego.” ACES Workshop: Performance-Based Earthquake Engineering Corfu, Greece, July 4-7, 2009.

9. “Displacement-based Design and Experimental Results of a Full-Scale 7-Story Building Slice Tested at UC San Diego.” Earthquake engineering by the beach a relaxed workshop on performance-based earthquake engineering, Anacapri, Italy, July 2-4 2009.

8. “Seismic Design, Testing and Analysis of Tall Reinforced Concrete Wall Buildings.” Geotechnical Graduate Student Society at Department of Civil and Environmental Engineering at UC Davis, May 21, 2009.

7. “Seismic Response of Tall Buildings.” Structural Engineering Association of Northern California (SEAONC), 2009 Spring Seminar, San Francisco, March 4, 2009.

6. “Recent Experimental Data and its Relevance for Design.” Tall Building Modeling Guidelines and Design Criteria, Los Angeles Tall Buildings Structural Design Council, Los Angeles, May 9, 2008.

5. “Displacement Based Design of Multistory Structural Wall Buildings and Lessons Learnt from the UCSD 7-Story Building Shake Table Test.” Rutherford and Chekene Structural and Geotechnical Consulting Engineers, San Francisco, CA, USA, July 24, 2007.

4. “Displacement Based Design of Multistory Structural Wall Buildings and Lessons Learnt from the UCSD 7-

Story Building Shake Table Test.” Degenkolb Engineers, San Francisco, CA, USA, July 25, 2007.

3. “Displacement Based Design of Multistory Structural Wall Buildings and Lessons Learnt from the UCSD 7-Story Building Shake Table Test.” KPFF Consulting Engineers, Los Angeles, CA, USA, July 10, 2007.

2. “Displacement Based Design of Multistory Structural Wall Buildings and Lessons Learnt from the UCSD 7-Story Building Shake Table Test.” National Technical University of Athens (NTUA), June 10, 2007.

1. “Shake Table Response of a Full-scale Reinforced Concrete Wall Building Slice.” University of Arizona, December, 2006.

EDITOR OF WORKSHOP PROCEEDINGS

“NEES/UCSD workshop and seminar on analytical modeling of reinforced concrete walls for earthquake resistance,” Restrepo J. I., Panagiotou M. (2006). UC San Diego, California, USA, December 15–16.

ACADEMIC SERVICE AT UCB

CEE Outreach Committee; CEE Curriculum Committee; Reviewer of Junior Transfer Applications; Advisor of CEE Steel Bridge Team; Undergraduate Student Advisor.

EDUCATION AND OUTREACH ACTIVITIES

Chair of the Organizing Committee of the Student Bridge Design Competition of the Seventh National Seismic Conference on Bridges & Highways, Oakland, California, May, 2013.