

CURRICULUM VITAE

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1. Higher Education

- Ph.D. California Institute of Technology—Civil Engineering with Minor in Control and Dynamical Systems (September 2007). *Dissertation title: Optimal Stochastic System Design and Applications to Stochastically Robust Structural Control*; James L. Beck, research advisor.
- M.S. Aristotle University of Thessaloniki—Civil and Environmental Engineering; Master’s program on “Earthquake Resistant Design of Structures” (September 2003). *Thesis title: Investigation of Passive and Active Liquid Column Mass Dampers*; Demos C. Angelides and Georgios C. Manos, research advisors.
- B.S. Aristotle University of Thessaloniki—Civil and Environmental Engineering. Major on Structural Engineering (June 2002). *Senior Thesis title: Investigation of Applications for Liquid Column Mass Dampers*; Demos C. Angelides and Georgios C. Manos, thesis advisors.

2. Positions Held

- 2012-present Associate Professor—Department of Civil and Environmental Engineering and Earth Sciences / Concurrent Associate Professor—Department of Mechanical and Aerospace Engineering, University of Notre Dame
- 2011-2012 Rooney Family Assistant Professor—Department of Civil Engineering and Geological Sciences / Concurrent Assistant Professor—Department of Mechanical and Aerospace Engineering, University of Notre Dame
- 2008-2011 Assistant Professor—Department of Civil Engineering and Geological Sciences, University of Notre Dame

- Nov. 2007-
June 2008 Post-Doctoral Fellow—Department of Civil and Environmental Engineering.
Duke University; Jeffrey T. Scruggs, research advisor. *Research topic: Application of regenerative force actuation networks to wave energy harvesting and structural control.*
- 2004-2007 G.W Housner Research Fellow—Division of Engineering and Applied Sciences.
California Institute of Technology; James L. Beck, research advisor. *Research topic: Optimal Stochastic System Design and Applications to Stochastically Robust Structural Control.*
- 2002-2003 Structural Engineer—Design and Construction firm of Kesoglou Panagiotis.
Drama, Greece.

3. Scholarships and Fellowships

- California Institute of Technology- Harold Hellwig Fellowship for the first year of Ph.D studies (2003-04) and Housner Fellowship for second-fourth year of Ph.D studies (2004-07) in California Institute of Technology.
- Aristotle University Fellowship Foundation – Konstantinos Katseas Fellowship for partial support of Ph.D studies in California Institute of Technology.
- Greek Scholarship Foundation (Greek Ministry of Education) – Scholarship for academic excellence in the Master’s program “Earthquake Resistant Design of Structures” in the Department of Civil and Environmental Engineering in Aristotle University of Thessaloniki.
- Greek Scholarship Foundation (Greek Ministry of Education) – Scholarship for academic excellence in each year of undergraduate studies (1997-2002) in the Department of Civil and Environmental Engineering in Aristotle University of Thessaloniki.

4. Distinctions, Honors, Awards

- IRIS 2012 Prize of Excellence by the Integrated European Industrial Risk Reduction System (IRIS) project for publications “Analysis and design of offshore energy conversion devices under modeling uncertainties” and “Risk assessment and sensitivity analysis for offshore wind turbines”, both authored by Taflanidis, A.A., Loukogeorgaki, E and D.C. Angelides.
- Best Young Researcher Paper award in the *1st International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering*, 2009, Madeira, Portugal, for the paper "Stochastic Subset Optimization with Response Surface Approximations for Stochastic Design" by A.A. Taflanidis.
- Award for academic excellence in entire Aristotle University of Thessaloniki in 2000-2001 by International Rotary Society of Thessaloniki

- Technical Chamber of Greece – Award for academic excellence in each year of undergraduate studies (1997-2002) in the Department of Civil and Environmental Engineering in Aristotle University of Thessaloniki.
- Ministry of Education of Greece and Greek Math Foundation – Awards (one from each) for excellence in Greek national placement exams (1997) for admittance to the Department of Civil and Environmental Engineering in Aristotle University of Thessaloniki.

5. Book and Monographs

1. **Taflanidis, A.A.** and I. Gidaris¹ (2013). “Life-cycle cost based optimal design of fluid viscous dampers” in Reliability and Optimization of Structural Systems, Der Kiureghian, A., and A. Hajian eds. American University of America Press. ISBN 978-0-9657429-0-0.
2. **Taflanidis, A.A.** and I. Gidaris (2012). “Optimal design of nonlinear viscous dampers for protection of isolated bridges” in Structural Seismic Design Optimization and Earthquake Engineering: Formulations and Applications, Plevris, V., Lagaros, N and A. Mitropoulou eds. IGI Global. ISBN 978-1-466616-40-0.
3. **Taflanidis, A.A.** (2011). “Soft computing applications in simulation based natural hazard risk assessment” in Soft Computing Methods for Civil and Structural Engineering, Tsompanakis, Y, and B.H.V. Topping eds. Saxe-Coburg Publications. ISBN 978-1-874672-56-2.
4. **Taflanidis, A.A.** (2010). “Robust stochastic design of viscous dampers for base isolation applications” in Computational Methods in Earthquake Engineering, Papadrakakis, M., Fragiadakis, M and N. Lagaros eds. Springer. ISBN: 978-94-007-0052-9.
5. **Taflanidis, A.A.** and J.L. Beck (2008). “Stochastic system design optimization using stochastic simulation” in Structural design optimization considering uncertainties. Tsompanakis, Y., Lagaros, N., and M. Papadrakakis eds. Taylor & Francis. London, UK. ISBN: 978-0-415-45260-1.

6. Refereed Publications

Journal Articles Published or in Press:

1. **Taflanidis, A.A.**, Vetter, C. and E. Loukogeorgaki “Impact of modeling and excitation uncertainties on operational and structural reliability of tension leg platforms”. *Applied Ocean Research*, 10.1016/j.apor.2013.08.004.
2. Jia, G. and **A.A. Taflanidis** (2013). “Non-parametric Stochastic Subsets Optimization for optimal reliability problems”. *Computers and Structures*, **126**: 86–99.
3. Lamprou, A., and G. Jia and **A.A. Taflanidis**. “Life-cycle seismic loss estimation and global sensitivity analysis based on stochastic ground motion modeling”. *Engineering Structures*, **54**: 192-206.

¹ Underlined names indicate students at the University of Notre Dame

4. Scruggs, J.T, Lattanzio, S.M. and **A.A. Taflanidis** (2013). “Optimal causal control of an ocean wave energy converter in stochastic waves”. *Applied Ocean Research*, **42**: 1-15.
5. **Taflanidis, A.A.**, Loukogeorgaki, E. and D.C. Angelides (2013). “Offshore wind turbine risk quantification/evaluation under extreme environmental conditions”. *Reliability Engineering and System Safety*, **115**: 19–32.
6. Jia, G. and **A.A. Taflanidis** (2013). “Kriging metamodeling for approximation of high-dimensional wave and surge responses in real-time storm/hurricane risk assessment”. *Computer Methods in Applied Mechanics and Engineering*, 261-262, 24-38.
7. Gidaris, I. and **A.A. Taflanidis**. (2013) “Parsimonious modeling of hysteretic structural response in earthquake engineering: Calibration/validation and implementation in probabilistic risk assessment”. *Engineering Structures*, **49**: 1017–1033.
8. **Taflanidis, A.A.**, Jia, G., Kennedy, A.B. and J.M. Smith (2013). “Implementation /Optimization of moving least squares response surfaces for approximation of hurricane/storm surge and wave responses”. *Natural Hazards*, **66** (2): 955-983 .
9. O’Donnell, A.P., Kurama, Y.C, Kalkan, E., **Taflanidis A.A.** and O.A Beltsar (2013). “Ground motion scaling methods for linear-elastic structures: an integrated experimental and analytical investigation”. *Earthquake Engineering and Structural Dynamics*, DOI: 10.1002/eqe.2272.
10. **Taflanidis, A.A.**, Kennedy, A.B, Westerink, J.J, Hope, M., Tanaka, S., Smith, J. and K.F. Cheung (2013). “Rapid assessment of wave and surge risk during landfalling hurricanes; a probabilistic approach”. *Journal of Waterway, port, coastal and ocean engineering, ASCE*, DOI: 10.1061/9780784412626.052.
11. Beck, J.L and **A.A. Taflanidis** (2013). “Prior and posterior robust stochastic predictions for dynamical systems using probability logic”. *Journal of Uncertainty Quantification*, **3** (4): 271-288.
12. Kennedy, A.B., Westerink, J.J, Smith, J.M., Hope, M.E., Hartman, M., **Taflanidis, A.A.**, Tanaka, S., Westerink, H., Cheung, K.F., Smith, T., Hamann, M., Minamide, M., Otae, A., and C. Dawson (2012) “Tropical Cyclone Inundation Potential on the Hawaiian Islands of Oahu and Kauai”. *Ocean Modeling*, **52-53**: 54–68
13. Kijewski-Correa, T., **Taflanidis, A.A**, Mix, D., and R. Kavanagh (2012) “An empowerment model for sustainable residential reconstruction in Léogâne, Haiti after the January 2010 earthquake”. *Journal of Leadership and Management in Engineering, ASCE*, 12(4), 271-287.
14. Vetter, C. and **A.A. Taflanidis** (2012). “Probabilistic sensitivity analysis for stochastic ground motion modeling in seismic risk assessment”. *Soil Dynamics and Earthquake Engineering*, **38**: 128-143.
15. Kijewski-Correa, K. and **A.A. Taflanidis** (2012). “The Haitian housing dilemma: Can sustainability and hazard-resilience be achieved?”. *Bulletin of Earthquake Engineering*, **10**:765–771.

16. **Taflanidis, A.A.**, and S.-H. Cheung (2012). “Stochastic sampling using moving least squares response surface methodologies”. *Probabilistic Engineering Mechanics*, **28**: 216-224.
17. **Taflanidis, A.A.** (2012). “Stochastic Subset Optimization incorporating moving least squares response surface methodologies for stochastic sampling”. *Advances in Engineering Software*, **44**: 3-14.
18. **Taflanidis, A.A.** (2011). “Optimal probabilistic design of seismic-dampers for protection of isolated bridges against near-fault seismic excitations”. *Engineering Structures*, **33** (12): 3496–3508.
19. Mix, D., Kijewski-Correa, T. and **A.A. Taflanidis** (2011). “Assessment of Residential Housing in Léogâne, Haiti after the January 2010 Earthquake and Identification of Needs for Rebuilding”. *Earthquake Spectra*, **27** (S1): S299–S322.
20. **Taflanidis, A.A.**, and G. Jia (2011). “A simulation-based framework for risk assessment and probabilistic sensitivity analysis of base-isolated structures”. *Earthquake Engineering and Structural Dynamics*, **40**: 1629–1651.
21. **Taflanidis, A.A.** and J.L. Beck (2010). “Reliability-based design using two-stage stochastic optimization with a treatment of model prediction errors”. *Journal of Engineering Mechanics ASCE*, **136** (12): 1460-1473.
22. **Taflanidis, A.A.**, Scruggs, J.T, and J.L. Beck (2010). “Robust stochastic design of linear controlled systems for performance optimization”. *Journal of Dynamic Systems Measurement and Control ASME*, **132** (5): 051008.
23. **Taflanidis, A.A.** and J.T Scruggs (2010). “Performance measures and optimal design of linear structural systems under stochastic stationary excitation”. *Structural Safety*, **32**(5): 305-315.
24. **Taflanidis, A.A.** (2010). “Reliability-based optimal design of linear dynamical systems under stochastic stationary excitation and model uncertainty”. *Engineering Structures*, **32** (5): 1446-1458.
25. **Taflanidis, A.A.** and J.L. Beck (2009). “Life-cycle cost optimal design of passive dissipative devices”. *Structural Safety*, **31** (6): 508-522.
26. **Taflanidis, A.A.** and J.L. Beck (2009). “Stochastic subset optimization for reliability optimization and sensitivity analysis in system design”. *Computers and Structures*, **31** (5-6): 847-857.
27. **Taflanidis A.A.**, Angelides D.C. and J.T. Scruggs (2009). “Simulation-based design of mass dampers for response mitigation of tension leg platforms”. *Engineering Structures*, **87** (4): 318-331.
28. **Taflanidis, A.A.**, Scruggs J.T. and J.L. Beck (2008). “Probabilistically robust nonlinear design of control systems for base-isolated structures”. *Structural control and Health Monitoring*, **15** (5): 697-719.
29. **Taflanidis, A.A.** and J.L. Beck (2008). “An efficient framework for optimal robust stochastic system design using stochastic simulation”. *Computer Methods in Applied Mechanics and Engineering*, **198** (1): 88-101.

30. **Taflanidis, A.A.**, Beck, J.L. and D.C. Angelides (2008). “Robust-to-modeling-uncertainties nonlinear control design for offshore structures”. *International Journal of Offshore and Polar Engineering*, **18** (2): 91-98.
31. **Taflanidis, A.A.** and J.L. Beck (2008). “Stochastic Subset Optimization for problems with reliability objectives”. *Probabilistic Engineering Mechanics*, **23** (2-3): 324-338.
32. **Taflanidis, A.A.**, Scruggs, J.T. and J.L. Beck (2008). “Reliability-based performance objectives and probabilistic robustness in structural control applications”. *Journal of Engineering Mechanics ASCE*, **134** (4): 291-301.
33. **Taflanidis, A.A.**, Beck, J.L. and D.C. Angelides (2007). “Robust reliability-based design of liquid column mass dampers under earthquake excitation with use of an analytical reliability approximation”. *Engineering Structures*, **29** (12): 3525-3537.
34. Scruggs, J.T., **Taflanidis, A.A.** and W.D. Iwan (2007). “Nonlinear stochastic controllers for semiactive and regenerative systems with guaranteed quadratic performance bounds. Part II- Output feedback control”. *Journal of Structural Control and Health Monitoring*, **14** (8): 1121-1137.
35. Scruggs, J.T., **Taflanidis, A.A.** and W.D. Iwan (2007). “Nonlinear stochastic controllers for semiactive and regenerative systems with guaranteed quadratic performance bounds. Part I- State feedback control”. *Journal of Structural Control and Health Monitoring*, **14** (8):1101-1120.
36. Scruggs, J.T., **Taflanidis, A.A.** and J.L. Beck (2006). “Reliability-based control optimization for active base isolation systems”. *Journal of Structural Control and Health Monitoring*, **13** (2-3): 705-723.
37. **Taflanidis, A.A.** and J.L. Beck (2006). “Analytical approximation for stationary reliability of certain and uncertain linear dynamic systems with higher dimensional output”. *Earthquake Engineering and Structural Dynamics*, **35** (10): 1247-1267.
38. **Taflanidis, A.A.**, Angelides, D.C. and G.C. Manos (2005). “Optimal design and performance of liquid column mass dampers for rotational vibration control of structures under white noise excitation”. *Engineering Structure*, **27** (4): 524-534.

Conference Proceedings Published or in Press:

1. **Taflanidis, A.A.**, Jia, G. and Gidaris, I.* (2013). “Reliability-based assessment/design of floor isolation systems for protection of critical structural contents”. In proceedings of the Vienna Congress on Recent Advances in Earthquake Engineering and Structural Dynamics & 13. D-A-CH Tagung. August 28-30. Vienna, Austria.
2. Gidaris, I.* and **A.A. Taflanidis** (2013). “Life-cycle cost based optimization of fluid viscous dampers”. In proceedings of the Vienna Congress on Recent Advances in Earthquake Engineering and Structural Dynamics & 13. D-A-CH Tagung. August 28-30. Vienna, Austria.
3. **Taflanidis, A.A.***, Vetter, C. and R. Dunbar (2013). “Stochastic ground motion modeling: opportunities and challenges for seismic hazard description in probabilistic risk assessment”. In proceedings of *11th International Conference on Structural Safety & Reliability*, June 16-20, New York, NY.

4. **Taflanidis, A.A.***, Jia, G. and I. Gidaris (2013). “Reliability-based optimal design of floor isolation systems for protection of critical structural contents”. In proceedings of *11th International Conference on Structural Safety & Reliability*, June 16-20, New York, NY.
5. Jia, G.* and **A.A. Taflanidis** (2013). “Real-time hurricane risk assessment through surrogate modeling”. In proceedings of *11th International Conference on Structural Safety & Reliability*, June 16-20, New York, NY.
6. Vetter, C.* and **A.A. Taflanidis** (2013). “Identification of the importance of risk factors in seismic risk assessment based on stochastic ground motion models”. In proceedings of *11th International Conference on Structural Safety & Reliability*, June 16-20, New York, NY.
7. Gidaris, I.* and **A.A. Taflanidis** (2013). “Life-cycle cost based optimization of fluid viscous dampers; design framework and trends of optimal solutions”. In proceedings of *11th International Conference on Structural Safety & Reliability*, June 16-20, New York, NY.
8. **Taflanidis, A.A.*** and I. Gidaris (2012). “Life-cycle cost based optimal design of fluid viscous dampers”. In proceedings of *IFIP WG 7.5 Working Conference, Reliability and Optimization of Structural Systems*, June 24-27, Yerevan, Armenia.
9. **Taflanidis, A.A.***, Kennedy, A.B, Westerink, J.J, Smith, J., Kijewski-Correa, T., and K.F. Cheung (2012). “Real-time assessment of wave and surge risk due to landfalling hurricanes”. In Proceedings of the *International Conference on Coastal Engineering*, July 1-6. Santander, Spain.
10. Vetter, C., Gidaris, I., and **A.A Taflanidis*** (2012). “Seismic Hazard Characterization through Stochastic Ground Motion Modeling”. In Proceedings of the *ASCE 2012 Structures Congress*. May 11-17. Chicago, Illinois.
11. **Taflanidis, A.A.*** and I. Gidaris (2011). “Bayesian updating of bridge deteriorating infrastructures through monitoring data”. In Proceedings of the *ASME 2011 International Mechanical Engineering Congress and Exposition*. November 11-17. Denver, Colorado.
12. **Taflanidis, A.A.*** and C. Vetter (2011). “Seismic risk sensitivity analysis focusing on stochastic ground motion modeling”. In Proceedings of the *11th International Conference on Applications of Statistics and Probability in Civil Engineering*. August 1-4. Zurich, Switzerland.
13. **Taflanidis, A.A.*** (2011). “Life-cycle repair cost assessment and sensitivity analysis”. In Proceedings of the *11th International Conference on Applications of Statistics and Probability in Civil Engineering*. August 1-4. Zurich, Switzerland.
14. **Taflanidis, A.A.*** (2011). “Probabilistic design of supplemental dampers for base-isolated bridges”. In Proceedings of the *11th International Conference on Applications of Statistics and Probability in Civil Engineering*. August 1-4. Zurich, Switzerland.
15. **Taflanidis, A.A.***, Kennedy, A.B, Westerink, J.J, Hope, M., Tanaka, S., Smith, J. and K.F. Cheung (2011). “A comprehensive approach for online fast hurricane-risk prediction”. In Proceedings of the *11th International Conference on Applications of Statistics and Probability in Civil Engineering*. August 1-4. Zurich, Switzerland.

16. **Taflanidis, A.A.***, Loukogeorgaki, E. and D.C. Angelides (2011). “Risk assessment and sensitivity analysis for offshore wind turbines”. In Proceedings of the *21st International Offshore (Ocean) and Polar Engineering Conference*. June 19-24. Maui, Hawaii.
17. **Taflanidis, A.A.*** (2011). “Design of supplemental dampers for seismic risk reduction of isolated bridges”. In Proceedings of the *International Conference on Vulnerability and Risk Analysis and Management/Fifth International Symposium on Uncertainty Modeling and Analysis*. April 11-13. Hyattsville, Maryland.
18. **Taflanidis, A.A.*** (2011). “Seismic risk assessment and sensitivity analysis in terms of life-cycle repair cost”. In Proceedings of the *International Conference on Vulnerability and Risk Analysis and Management/Fifth International Symposium on Uncertainty Modeling and Analysis*. April 11-13. Hyattsville, Maryland.
19. **Taflanidis, A.A.***, Kennedy, A.B, Westerink, J.J, Hope, M., Tanaka, S., Smith, J. and K.F. Cheung (2011). “Probabilistic hurricane surge risk estimation through high-fidelity numerical simulation and response surface approximations”. In Proceedings of the *International Conference on Vulnerability and Risk Analysis and Management/Fifth International Symposium on Uncertainty Modeling and Analysis*. April 11-13. Hyattsville, Maryland.
20. **Taflanidis, A.A.*** (2009). “A simulation-based framework for robust stochastic design of base isolation systems”. In Proceedings of the *10th International Conference on Structural Safety and Reliability*. September 13-17. Osaka, Japan.
21. **Taflanidis, A.A.*** and J.L. Beck (2009). “Life-cycle cost optimal design of passive dissipative devices for seismic risk mitigation”. In Proceedings of the *10th International Conference on Structural Safety and Reliability*. September 13-17. Osaka, Japan.
22. **Taflanidis, A.A.*** and J.T. Scruggs (2009). “Performance optimization for linear stochastic systems with probabilistic parametric uncertainties”. In Proceedings of the *17th Mediterranean Conference on Control and Automation*. June 24-26. Thessaloniki, Greece
23. **Taflanidis, A.A.*** and J.T. Scruggs (2009). “Probabilistically-robust performance optimization for controlled linear stochastic systems”. In Proceedings of the *2009 American Control Conference*. June 10-12. St. Louis, Missouri.
24. **Taflanidis, A.A.*** and J.L. Beck (2008). “Robust stochastic system design with life-cycle cost objectives”. In Proceedings of the *6th GRACM International Congress on Computational Mechanics*. June 19-21. Thessaloniki, Greece.
25. **Taflanidis, A.A.***, Angelides, D.C. and J.T. Scruggs (2008). “Robust design optimization of mass dampers for control of tension leg platforms”. In Proceedings of the *18th International Offshore (Ocean) and Polar Engineering Conference*. July 7-10. Vancouver, Canada.
26. **Taflanidis, A.A.*** and J.L. Beck (2007). “Efficient simulation-based optimization in reliability-based design”. In Proceedings of the *10th International Conference on Applications of Statistics and Probability in Civil Engineering*. July 31- August 3. Tokyo, Japan.

27. **Taflanidis, A.A.***, Angelides, D.C. and J.L. Beck (2007). “Probabilistically-robust nonlinear control of offshore structures”. In Proceedings of the *17th International Offshore (Ocean) and Polar Engineering Conference*. July 1-6. Lisbon, Portugal.
28. **Taflanidis, A.A.***, Scruggs J.T. and J.L. Beck (2007). “Smart base isolation design including model uncertainty in ground motion characterization”. In Proceedings of the *4th International Conference on Earthquake Geotechnical Engineering*. June 25-28. Thessaloniki, Greece.
29. Scruggs, J.T., **Taflanidis, A.A.*** and W.D. Iwan (2006). “Nonlinear stochastic controllers for semiactive and regenerative structural systems, with guaranteed quadratic performance margins”. In Proceedings of the *8th Biennial Conference on Engineering Systems Design and Analysis*. July 4-7. Torino, Italy.

7. Unrefereed Publications

Conference Proceedings Published or in Press:

1. **Jia, G.***, **Taflanidis, A.A.** and **Gidaris, I.** (2013). “A simulation-based and reliability-based design framework for floor-isolation protective systems”. In proceedings of the *3rd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering*. September 3-6. Sardinia, Italy.
2. **Jia, G.*** and **A.A. Taflanidis** (2013). “Non-parametric stochastic subset optimization for system design optimization under uncertainty”. In proceedings of the *3rd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering*. September 3-6. Sardinia, Italy.
3. **Taflanidis A.A.*** and **I. Gidaris** (2013). “Life-cycle cost based optimal retrofitting of structures by fluid dampers”. In Proceedings of the ASCE 2013 Structures Congress. May 2-4. Pittsburgh, Pennsylvania: 1777-1788.
4. **Taflanidis A.A.*** and **I. Gidaris** (2013). “Health monitoring and Bayesian updating of deteriorating bridge infrastructures”. In Proceedings of the ASCE 2013 Structures Congress. May 2-4. Pittsburgh, Pennsylvania: 398-409.
5. **O’Donnell, A.P.***, Kurama, Y.C, Kalkan, E. and **A.A. Taflanidis** (2013). “Experimental evaluation of ground motion scaling methods for nonlinear analysis of structural systems”. In Proceedings of the ASCE 2013 Structures Congress. May 2-4. Pittsburgh, Pennsylvania: 2180-2191.
6. **Gidaris, I.*** and **A.A. Taflanidis** (2012). “Bayesian updating of deteriorating bridge infrastructures through monitoring data”. In Proceedings of the *2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*. June 17-20. Notre Dame, Indiana.
7. **Gidaris, I.*** and **A.A. Taflanidis** (2012). “Parsimonious modeling of the hysteretic behavior of inelastic structural systems in earthquake engineering”. In Proceedings of the *2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint*

Specialty Conference on Probabilistic Mechanics and Structural Reliability. June 17-20. Notre Dame, Indiana.

8. Jia, G.* and **A.A. Taflanidis** (2012). “Efficient hurricane risk assessment using kriging metamodel”. In *Proceedings of the 2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*. June 17-20. Notre Dame, Indiana.
9. Vetter, C.* and **A.A. Taflanidis** (2012). “Global sensitivity analysis for stochastic ground motion modeling in seismic-risk assessment”. In *Proceedings of the 2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*. June 17-20. Notre Dame, Indiana.
10. Medina, C.*, Tovar, A. and **A.A. Taflanidis** (2012). “Assessing the performance of multiple designs through probabilistic integrals with applications to robust topology optimization”. In *Proceedings of the 2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*. June 17-20. Notre Dame, Indiana.
11. O’Donnell, A.P.*, Kurama, Y.C, Kalkan, E. and **A.A. Taflanidis** (2012). “Calibration of a Reusable Nonlinear Beam-Column Connection for Use in an Experimental Ground Motion Scaling Study”. In *Proceedings of the ASCE 2012 Structures Congress*. May 11-17. Chicago, Illinois.
12. **Taflanidis, A.A.***, Loukogeorgaki, E. and D.C. Angelides (2011). “Analysis and design of offshore energy conversion devices under modeling uncertainties”. In *Proceedings of the OCEANS’11 Conference*. September 19-22. Kona, Hawaii.
13. Smith, J.M.* , Westerink, J.J, Kennedy, A.B, **Taflanidis, A.A.** and T.D. Smith (2011). “SWIMS Hawaii hurricane wave, surge, and runoff inundation fast forecasting tool”. In *Proceedings of the 2011 Solutions to Coastal Disasters Conference*. June 26-29, Anchorage, Alaska.
14. O’Donnell, A.P.*, Beltsar, O.A., Kurama, Y.C, Kalkan, E. and **A.A. Taflanidis** (2011). “Evaluation of ground motion scaling methods for analysis of structural systems”. In *Proceedings of the 2011 ASCE Structures Congress*. April 14-16. Las Vegas, Nevada.
15. **Taflanidis, A.A.*** (2011). “Application of response surface methodologies for hurricane risk assessment”. In *Proceedings of the 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering*. September 6-9. Crete, Greece.
16. Jia G.* and **A.A. Taflanidis** (2011). “Relative entropy estimation through stochastic sampling and stochastic simulation techniques”. In *Proceedings of the 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering*. September 6-9. Crete, Greece.
17. **Taflanidis, A.A.**, Vetter, C. and G. Jia (2011). “Probabilistic Sensitivity Analysis for Seismic Risk Based on Stochastic Sampling and Focusing on Ground Motion Modeling”. In *Proceedings of the 2011 NSF Engineering Research and Innovation Conference*. January 4-7. Atlanta, Georgia.

18. O'Donnell, A.P., Beltsar, O.A., Kurama, Y.C, Kalkan, E. and **A.A. Taflanidis** (2011). "Evaluation of Ground Motion Scaling Methods for Nonlinear Analysis of Structural Systems". In Proceedings of the 2011 NSF Engineering Research and Innovation Conference. January 4-7. Atlanta, Georgia.
19. Khandelwal, K., **Taflanidis, A.A.** and R. Kiran (2011). "Robustness of Steel Buildings under Extreme Seismic Events: Study of Building Systems Collapse through Multi-scale Computational Methods". In Proceedings of the 2011 NSF Engineering Research and Innovation Conference. January 4-7. Atlanta, Georgia.
20. **Taflanidis, A.A.** *, Scruggs, J.T. and J.L. Beck (2010). "Robust performance optimization of linear controlled stochastic systems". In Proceedings of the *12th International Conference on Civil, Structural and Environmental Engineering Computing*. September 14-17. Valencia, Spain.
21. **Taflanidis, A.A.** * (2010) "Seismic-damper robust-design for protection of isolated bridges against near-fault excitations". In Proceedings of the *12th International Conference on Civil, Structural and Environmental Engineering Computing*. September 14-17. Valencia, Spain.
22. **Taflanidis, A.A.** * and S-H. Cheung (2010). "Stochastic sampling using moving least squares response surface methodologies". In Proceedings of the *6th International Conference on Computational Stochastic Mechanics*. July 11-14. Rhodes, Greece.
23. **Taflanidis, A.A.** * (2009). "Analytical approximation to reliability of linear systems for robust design". In Proceedings of the *12th International Conference on Civil, Structural and Environmental Engineering Computing*. September 1-4. Madeira, Portugal.
24. **Taflanidis, A.A.** * (2009). "Stochastic subset optimization with response surface methodologies for stochastic design". In Proceedings of the *1st International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering*. September 1-4. Madeira, Portugal.
25. **Taflanidis, A.A.** * (2009). "Robust stochastic design of viscous dampers for base isolation applications". In Proceedings of the *2nd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*. June 22-24. Rhodes, Greece.
26. **Taflanidis, A.A.** * and J.L. Beck (2007). "Stochastic subset optimization for stochastic design". In Proceedings of the *2007 Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, June 13-15. Rethymno, Greece.
27. **Taflanidis, A.A.** *, Scruggs, J.T. and J.L. Beck (2007). "Probabilistic model uncertainty in control applications". In Proceedings of the *18th Engineering Mechanics Division conference of the ASCE*. June 3-6. Blacksburg, VA.
28. Scruggs, J.T. *, **Taflanidis, A.A.** and W.D. Iwan (2006). "Nonlinear stochastic controllers for semiactive and regenerative systems with guaranteed quadratic performance bounds". In Proceedings of the *4th World Conference on Structural Control and Monitoring*. July 11-13, San Diego, CA.
29. **Taflanidis, A.A.** *, Scruggs, J.T. and J.L. Beck. (2006). "Reliability-based performance objectives and probabilistic model uncertainty in optimal structural control". In

Proceedings of the 4th World Conference on Structural Control and Monitoring. July 11-13. San Diego, CA.

30. **Taflanidis, A.A.***, Beck, J.L. and D.C. Angelides (2006). “Robust mass damper design using stochastic simulation”. In Proceedings of the 4th World Conference on Structural Control and Monitoring. July 11-13. San Diego, CA.
31. **Taflanidis, A.A.*** and J.L. Beck (2006). “Reliability-based optimal design by efficient stochastic simulation”. In Proceedings of the 5th International Conference on Computational Stochastic Mechanics. June 14-16. Rhodes, Greece.
32. Scruggs, J.T, Iwan, W.D. and **A.A. Taflanidis*** (2006). “Controllers for variable-damping structural systems with guaranteed stochastic performance margins”. In Proceedings of the 100th Anniversary Earthquake Conference. April 18-21. San Francisco, USA.
33. **Taflanidis, A.A.*** and J.L. Beck (2005). “Analytical reliability calculation of linear dynamical systems in higher dimensions”. In Proceedings of the 6th European Conference on Structural Dynamics. September 4-7. Paris, France.
34. **Taflanidis, A.A.***, Angelides, D.C. and G.C. Manos (2004). “Liquid column vibration absorbers for rotational vibration control of structures”. In Proceedings of the 3rd European Conference on Structural Control. July 12-15. Vienna, Austria.

8. Other Publications

Reports:

1. **Taflanidis, A.A.** (2008). “Optimal Stochastic System Design and Applications to Stochastically Robust Structural Control”. Ph.D Thesis, California Institute of Technology, Pasadena.
2. **Taflanidis, A.A.** and J.L. Beck (2005). “Analytical approximation to stationary reliability of linear dynamical systems”. EERL Report 2005-3, California Institute of Technology, Pasadena.

Conference Abstracts:

1. Gidaris, I., **Taflanidis, A.A.**, (2013) “Life-Cycle cost based optimization of fluid viscous dampers’ design framework and trends of optimal solutions”. In Proceedings of the 2013 Annual EERI Conference, February 12-15, Seattle, Washington.
2. **Taflanidis, A.A.***, Kennedy, A.B, Westerink, J.J, Smith, J. , Hope, M., and M. Hartman (2012). “Real-time storm inundation risk assessment for the Hawaiian Islands through high-resolution modeling”. In Proceedings of the 2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability. June 17-20. Notre Dame, Indiana.
3. Medina, C.* and **A.A. Taflanidis** (2012). “Adaptive importance sampling implementation for optimization under uncertainty”. In Proceedings of the 2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability. June 17-20. Notre Dame, Indiana.

4. O'Donnell, A.P.* , Kurama, Y.C, **Taflanidis A.A.** and E. Kalkan (2012). "Evaluation of ground motion scaling methods for the nonlinear analysis of structural systems". In Proceedings of the *2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*. June 17-20. Notre Dame, Indiana.
5. Kijewski-Correa, T., **Taflanidis, A.A.**, Mix, D., and R. Kavanagh (2012) "The 2010 Haiti earthquake: Seismic vulnerability and an empowering model for residential housing reconstruction". In Proceedings of the *2012 Annual EERI Conference*, April 10-13, Memphis, Tennessee.
6. Smith, J.* , Westerink, J.J., Kennedy, A.B., **Taflanidis, A.A.**, Cheung, K.F., and T.D. Smith (2011). "Fast Forecast Tool for Hurricane Wave, Surge, and Runup Inundation in Hawaii". In Proceedings of the *12th International Workshop on Wave Hindcasting and Forecasting and 3rd Coastal Hazard Symposium*, October 30- November 4. Kona, Hawaii.
7. Smith, J.* , Kennedy, A.B., **Taflanidis, A.A.**, Westerink, J.J., Cheung, K.F., Tanaka, S., Ota, A., Hamman, M., Minamide, M., and M. Hartman (2011). "Phase-Resolving Wave Runup for Storm Inundation Assessment". In Proceedings of the *12th International Workshop on Wave Hindcasting and Forecasting and 3rd Coastal Hazard Symposium*, October 30- November 4. Kona, Hawaii.
8. **Taflanidis, A.A.**, Kennedy, A.B, Westerink, J.J*, Smith, J. and K.F. Cheung (2011). "Integrated Probabilistic Framework for Rapid Hurricane-Risk Assessment". In Proceedings of the *12th International Workshop on Wave Hindcasting and Forecasting and 3rd Coastal Hazard Symposium*, October 30- November 4. Kona, Hawaii.
9. Beck, J.L* and **A.A Taflanidis** (2011). "Prior and posterior robust stochastic predictions for dynamic systems using probability logic". In Proceedings of the USA/South America Symposium on Stochastic Modeling and Uncertainty Quantification. August 1-5. Rio De Janeiro, Brazil.
10. **Taflanidis, A.A.**, A. Lamprou and C. Vetter* (2011). "Assessment and probabilistic sensitivity analysis for life-cycle seismic repair cost". In Proceedings of the *2011 ASCE Engineering Mechanics Conference*, June 2-4, Boston, MA.
11. **Taflanidis, A.A.** and G. Jia* (2011). "Evaluation of stochastic-simulation-based methodologies for estimation of relative information entropy". In Proceedings of the *2011 ASCE Engineering Mechanics Conference*, June 2-4, Boston, MA.
12. **Taflanidis, A.A.*** (2010). "A complete probabilistic framework for analysis and design of seismically isolated bridges against near fault excitation". In Proceedings of the *2010 ASCE Engineering Mechanics Conference*, August 7-10, Los Angeles, CA.
13. **Taflanidis, A.A.** and C. Vetter* (2010). "Stochastic sampling based sensitivity analysis for seismic risk". In Proceedings of the *2010 ASCE Engineering Mechanics Conference*, August 7-10, Los Angeles, CA.
14. Beck, J.L* and **A.A. Taflanidis** (2008). "Robust stochastic system design: Optimization treating model uncertainty". In Proceedings of the *8th World Congress on Computational*

Mechanics & 5th European Congress on Computational Methods in Applied Sciences and Engineering, June 30- July 5. Venice, Italy.

15. **Taflanidis, A.A.** and J.L. Beck* (2008). “Stochastic optimization of reliability in design and influence of model prediction error”. In *Proceedings of the 8th World Congress on Computational Mechanics & 5th European Congress on Computational Methods in Applied Sciences and Engineering*. June 30- July 5. Venice, Italy.
16. Scruggs, J.T* and **A.A. Taflanidis** (2008). “Performance guaranteed stochastic controller synthesis for viscoplastic semi-active dampers”. In *Proceedings of the Inaugural International Conference of the Engineering Mechanics Institute*. May 18-21. Minneapolis, Minnesota.
17. **Taflanidis, A.A.***, and J.L. Beck (2008). “Stochastic system design optimization by efficient stochastic simulation techniques”. In *Proceedings of the Inaugural International Conference of the Engineering Mechanics Institute*. May 18-21. Minneapolis, Minnesota.

9. Invited Lectures and Addresses

1. “Soft computing applications for analysis/optimization of engineering systems under uncertainty”. California Institute of Technology, May 30th 2013, Pasadena, CA.
2. “Surrogate Modeling for Approximation of Complex Physical Processes for Natural Hazard Risk Assessment Applications”. AIR Worldwide, March 5th 2013, Boston, MA.
3. “An empowerment model for residential reconstruction in Leogane, Haiti, post the 2010 Earthquake”. Georgia Institute of Technology, September 5th 2012, Atlanta, GA.
4. “Enhancing Resilience to Natural Disasters: A Probabilistic, Simulation-Based Perspective”. University of Michigan, November 29th 2011, Ann Arbor, MI.
5. “Soft computing applications in simulation based natural hazard risk assessment”. Invited Special Lecture on 2nd *International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering*. September 6-9 2011, Crete, Greece.
6. “Rapid Assessment of Wave and Surge Risk during landfalling Hurricanes”. U.S Army Corps of Engineers, Engineer Research and Development Center, September 1st 2011, Vicksburg, MS.
7. “Natural-Hazard Risk: Quantification, Assessment and Sensitivity Analysis”. Duke University. November 19th 2010. Durham, NC.
8. “Haiti Earthquake: Lessons Learned and Identification of Needs for Rebuilding”. Duke University. November 18th 2010. Durham, NC.
9. “Computational Methods for Risk Assessment and Sensitivity Analysis”. Integrated Risk Assessment and Monitoring for Industrial Systems (IRIS) project of European Union. September 13th 2010. Zell Am See, Austria.
10. “Haiti Earthquake: Lessons Learned and Hope for the Future”. Challenges and Innovations in Civil and Environmental Engineering Lecture Series, University of Notre Dame. September 2nd 2010. Notre Dame, IN. (Co-presenter: Tracy Kijewski-Correa).

11. “Robust-Stochastic Design and Control of Structural Systems”. University of Notre Dame. February 13th 2008. Notre Dame, IN.
12. “Optimal Robust-Stochastic Design and Control of High-Performance Structural Systems”. University of California at Berkeley. January 23rd 2008. Berkeley, CA.
13. “Stochastic System Design and Applications to Stochastically Robust Structural Control”. California Institute of Technology. October 10th 2007. Pasadena, CA.
14. “Optimal Stochastic System Design and Control Applications”. University of Thessaly. June 7th 2007. Volos, Greece.
15. “Optimal System Design Using Stochastic Simulation and Applications to Structural Control”. Cornell University. April 11th 2007. Cornell, NY.

10. Grants and Sponsored Programs

Funded as PI/Co-PI:

Co-Principal Investigator (January 2013 – September 2014)
 “Rapid evaluation of storm surge and wave forecasts using the Notre Dame surrogate interpolator”— Renaissance Computing Institute (Andrew Kennedy, Principal Investigator) (\$88,314)

Principal Investigator (September 2012 – August 2013)
 “Implementation of surrogate modeling for hurricane/storm risk-assessment; application to the New Orleans region through use of CSTORM- DB/VS”—Army Corps of Engineers, (Andrew Kennedy, Co-Principal Investigator) (\$49,915)

Principal Investigator (September 2012 – August 2015)
 “Collaborative Research: Large-Scale Wave Energy Arrays: Integrated Control/Array Design in Random Seas”—National Science Foundation, CBET division, (\$187,819)

Co-Principal Investigator (April 2011-March 2013)
 “A Multi-Hazard-Resilient Residential Housing Model for Haiti: Rebuilding Communities and Livelihoods through Sustainable Partitioning”— National Collegiate Inventors & Innovators Alliance (Tracy Kijewski-Correa, Principal Investigator) (\$42,480)

Principal Investigator (January 2011 - December 2013)
 “Probabilistic Sensitivity Analysis for Seismic Risk Based on Stochastic Sampling and Focusing on Stochastic Ground Motion Modeling”—National Science Foundation, Award CMMI-1030726 (\$249,433)

Co-Principal Investigator (January 2010 - December 2012)
 “Robustness of Steel Buildings under Extreme Seismic Events: Study of Building Systems Collapse Through Multi-scale Computational Methods”—National Science Foundation, Award CMMI - 0928547 (Kapil Khandelwal, Principal Investigator) (\$249,000)

Co-Principal Investigator (August 2009 – July 2012)
“Hurricane Inundation Risk in the North Pacific Ocean”—U.S. Army Corps of Engineers.
Award W912HZ-09-C-0086 (Andrew Kennedy, Principal Investigator; Joannes Westerink Co-Principal Investigator) (\$598,033)

Co-Principal Investigator (January 2010 – December 2012)
“CYBER-EYE: A Cyber-Collaboratory for National Risk Modeling and Assessment to Mitigate the Impacts of Hurricanes in a Changing Climate”— Strategic Investment University of Notre Dame (Tracy Kijewski-Correa, Principal Investigator; Thomas Corke, Harinda Joseph Fernando, Ahsan Kareem, Andrew Kennedy, Khandelwal, Gregory Madey, Scott Morris, Joannes Westerink, Zhiliang Xu, Yongtao Zhang Co-Principal Investigators) (\$1,000,000)

Co-Principal Investigator (2009)
“Development of a Wireless Health Monitoring System for Bridge Inspection and Rating: Prototyping and Full-Scale Deployment”— Faculty Research Program, University of Notre Dame (Tracy Kijewski-Correa, Principal Investigator; Panos Antsaklis Co-Principal Investigator) (\$9,500)

11. Master’s Theses Directed

1. Alexandros Lamprou. Graduated August 2011. Thesis Title: “Probabilistic Life-Cycle cost: Assessment and sensitivity analysis through stochastic ground motion modeling for seismic hazard”
2. Dustin Mix. Expected completion: August 2013. Research Topic: Empowerment model for residential reconstruction in Haiti.

12. Doctoral Dissertations Directed

1. Gaofeng Jia. Expected completion: August 2014. Research Topic: Application of soft computing approaches for Natural Hazard risk assessment.
2. Chris Vetter. Expected completion: August 2015. Research Topic: High performance computing in probabilistic risk assessment and optimal design
3. Ioannis Gidaris. Expected completion: August 2015. Research Topic: Parsimonious modeling and optimization of infrastructure systems.
4. Juan Camilo Medina. Expected completion; August 2014. Research Topic: Optimization in face of uncertainty; a simulation-based perspective.

13. Professional Memberships

- American Society of Civil Engineers, Associate Member (since 2008)
- Earthquake Engineering Research Institute, Member (since 2010)
- Technical Chamber of Greece, Member (since 2002)
- Greek Society of Professional Civil Engineering, Member (since 2002)

- Engineering Mechanics Institute, ASCE, Member (since 2008)
- Structural Engineering Institute, ASCE, Member (since 2012)

14. Other Notable Contributions

Conference Co-Chair:

- 2012 Joint Conference of the Engineering Mechanics Institute and the 11th Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability (EME/PMC 2012), June 17-20 2012. Notre Dane, IN.

Conference Editorial Board Member:

- 1st International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering. September 1-4 2009. Madeira, Portugal.
- 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering, September 6-9 2011. Chania, Greece.
- 3rd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering, September 7-10 2013. Sardinia, Italy.

Conference Scientific Committee Member:

- ASCE International Conference on Vulnerability and Risk Analysis and Management/Fifth ASEC International Symposium on Uncertainty Modeling and Analysis. April 11-13 2011. Hyattsville, Maryland.
- ASME 2011 International Mechanical Engineering Congress and Exposition. November 11-17, Denver, Colorado.

Minisymposia and specialty conference tracks organized:

- “Analysis, Optimization and Updating of Complex Systems and Infrastructures under Uncertainty”. Special Track (with two sessions) in the *ASME 2011 International Mechanical Engineering Congress and Exposition*. November 11-17. Denver, Colorado
- “Soft computing methods for analysis, optimization and Bayesian updating of systems under uncertainty”. Minisymposium in the 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering. September 6-9 2011. Chania, Greece. Co-Organizer: Kostas Papadimitriou.
- “Robust stochastic analysis, modal updating and optimal design of engineering systems”. Minisymposium in the 2nd International Conference on Computational Methods in Earthquake Engineering and Structural Dynamics. 22-24 June 2009. Rhodes, Greece. Co-organizers: Hector Jensen, James L. Beck.

Workshop Participation:

- 2011 NSF funded Workshop on “Fundamental Research and Technology in Wave and Hydrokinetic Power Systems”, Kona, Hawaii. September 19 - 22, 2011
- Workshop on Integrated Risk Assessment and Monitoring for Industrial Systems (IRIS). Zell Am See, Austria September 12-15, 2010.

Professional Certifications:

- Professional Civil Engineer; Greece (2002-present)

Journal Reviewer:

- *Bulletin of Earthquake Engineering* (2010-present)
- *Engineering Structures* (2007-present)
- *Computers and Structures* (2007-present)
- *Computer Methods in Applied Mechanics and Engineering* (2007-present)
- *Journal of Structural Control and Health Monitoring* (2007-present)
- *Computer Aided Civil and Infrastructure Engineering* (2007-present)
- *Structural Safety* (2008-present)
- *Journal of Engineering Mechanics ASCE* (2008-present)
- *Journal of Structural Engineering ASCE* (2009-present)
- *Probabilistic Engineering Mechanics* (2009-present)
- *Earthquake Engineering and Structural Dynamics* (2010-present)
- *Journal of Sound and Vibration* (2010-present)
- *International Journal of Reliability and Safety* (2008)
- *International Journal of Mechanical Sciences* (2010)
- *Journal of Advances in Operations Research* (2009)
- *Journal of Ocean Engineering* (2010)
- *Journal of Vessel Technology ASME*(2009)
- *Structure and Infrastructure Engineering* (2010)
- *American Control Conferences* (2008-present)
- *International Society of Offshore and Polar Engineering* (2008-present)
- *Aerospace Science and Technology* (2012)
- *Natural Hazards* (2012)