

Matteo Pozzi

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Professional Preparation

University of Trento (Italy)	Civil Engineering	Laurea (M.S.+B.S.), 2003
University of Bristol (UK)	Mechanical Engineering	visiting Ph.D. stud. (6-12/2004)
University of Trento (Italy)	Structural Engineering	Ph.D., 2007
University of Trento (Italy)	Smart structures	Post-Doc, 2010
University of California, Berkeley	Structural Reliability	Post-Doc, 2012

Appointments

July 2017 - present Associate Professor, Civil and Environmental Eng., Carnegie Mellon University
 Oct. 2012 - Jun 2017 Assistant Professor, Civil and Environmental Eng., Carnegie Mellon University

Notable Awards

NSF CAREER award, 2017, from the “Civil Infrastructure Systems” program: “Infrastructure Management under Model Uncertainty: Adaptive Sequential Learning and Decision Making.”
 Best Paper Award at 8th ACM/IEEE Int. Conf. on Inform. Process. in Sensor Networks (IPSN 2009, SPOTS track), San Francisco, CA, April 13-16, 2009, for paper: Ceriotti et al. “Monitoring Heritage Buildings with Wireless Sensor Networks: The Torre Aquila Deployment.”

Synergistic Activities

Co-organizer of special issue on “Probabilistic Learning for Decision-making on Civil Infrastructures Under Uncertainties” for KSCE Journal of Civil Engineering, printed in May 2018.

Co-organizer of mini-symposia and special sessions on:

- “Computational Decision Making under Uncertainty”, at the [EMI-2020](#) conference: (May 26-29, 2020; Columbia Univ., New York, NY).
- “Value of Information for Civil Systems”, “Optimal Decision Making under Uncertainty for Civil Systems,” at the [ICASP13](#) conference: (May 26-30, 2019 - Seoul Nat. Univ., Seoul, South Korea).
- “Value of Information in Structural Health Monitoring”, “Bayesian Networks and Decision Graphs for Eng. Risk Analysis,” at the [ICOSSAR 2017](#) conf. (Aug. 6-10, 2017 - TU Wien, Vienna, Austria).
- “Reliability of Bridge Networks” for the IABMAS conference (June 26-30, 2016 - Foz do Iguaçu, Brazil).
- “Bayesian Networks and Decision Graphs for Engineering Risk Analysis,” at the ICASP12 conference (July 12-15, 2015, Vancouver).
- “Struct. Health Monitoring: Uncertainty Analysis and Decision Making” and “Bayesian Networks for Eng. Risk Analysis,” at the ICOSSAR 2013 (June 16-20, 2013 - Columbia Univ., New York, NY).
- “Statistical Methods for SHM” 9th International Workshop on Structural Health Monitoring (IWSHM 2013) (Sept. 10-12, 2013, Stanford University, CA).

Organizer of the [2016 Working Conference for the IFIP WG7.5](#) on Reliability and Optimization of Structural Systems, (May 18-20, 2016, Pittsburgh, PA).

Member of the [scientific committee](#) of the ICASP12 conference (July 12-15, 2015, Vancouver) and [ICASP 13](#) conference (May 26-30, 2019, Seoul, South Korea).

Vice-chair of [IFIP WG 7.5](#), member of [SPIE](#), [ASCE](#), EMI, [ISHMII](#), [SRA](#), organizer committee for the [International Bridge Conference](#).

Member of the ASCE Committees of Structural Health Monitoring and of Probabilistic Methods.

Member of the Editorial Board for journals “[Sustainable and Resilient Infrastructure](#)” (Taylor & Francis) and “[Reliability Engineering and System Safety](#)” (Elsevier).

Reviewer for these journals: Earthq. Eng. & Struct. Dyn. (Wiley); Rel. Eng. & Sys. Safety; Eng. Struct.; Mech. Sys. & Sign. Proc., Str. Safety (Elsevier); J. of Bridge Eng.; J. of Comp. in Civ. Eng.; J. of Struct. Eng.; J. of Aerosp. Eng. (ASCE); J. of Civ. Struct. Health Monit. (Springer); Struct. & Infrastr. Eng. (Taylor & Francis); J. of Intell. Mat. Sys. & Struct. (SAGE); Smart Mat. and Struct. (IOPscience).

Collaborators:

P. Adams, B. Akinci, M. Bergés, K. Dayal, JZ. Kolter, HY. Noh, C. Samaras, B. Sinopoli, M. Small, J. VanBriesen, CMU, Pittsburgh, PA. D. Zonta, Univ. Trento, Italy.
A. Der Kiureghian, UC Berkeley, CA. K. Klima, RAND corp., Santa Monica, CA.
W. Harbert, Univ. of Pittsburgh, PA. E. Bou-Zeid; B. Glisic, Princeton University, NJ.
D. Bernal, Northeastern Univ., MA. A. Minca, Cornell University, NY.
I. Tien, Georgia Tech., GA. G. Chen, Missouri U. of Sc. & Tech., Rolla, MO.
J. Song, Seoul National Univ., South Korea.

Professional Qualification

Professional Engineer, registered at the order of engineers of the Province of Trento, Italy (since 2003).

PhD students:

Current students: Chaochao Lin (started Aug 2017, sole advisor); Shuo Li (started Jan 2018, sole advisor); Mina Karimi (started Aug 2018, co-advised with K Dayal); ByeongSeong Choi (started Dec 2018, co-advised with M Bergés); Suman Pokharel (started Jan 2019, co-advised with P Adams); Rami Ariss (started Aug 2019, sole advisor).

Past students: Irem Velibeyoğlu (Sep 2014-Sep 2018, sole advisor); Chelsea Kolb (Sep 2014-Sep 2018, co-advised with J VanBriesen & C Samaras); Carl Malings, (Jun 2013-Apr 2017, sole advisor); Pengyun Wang (Sep 2013-Dec 2016, co-advised with M Small [started Aug.2012 advised by M Small]); Milad Memarzadeh (Jan 2013-Dec 2015, sole advisor); Yanchao Yue (2008-2011, Co-advised, at Univ. of Trento).

Grants

Aug 2019 - Jul 2022: NSF “[Attitude towards information in multi-agent settings: Understanding and mitigating Avoidance and Over-Evaluation](#)” from the SES DRMS prog., with M.-F. Balcan and S. Saccardo (\$413,000) [PI].

Mar 2018 - Feb 2020: “Forecasting induced seismicity by integrating physics-based models with machine learning” from Scott Int. Energy innovation’s Seed Grant, with K. Dayal and A. Singh (\$75,000) [PI].

Aug 2017 - Jul 2020: NSF “[From Future Learning to Current Action: Long-Term Sequential Infrastructure Planning Under Uncertain Climate Change](#)” from the CMMI IMEE prog., with P. Adams and K. Klima (\$550,000) [PI].

Sep 2017 - Aug 2020: NSF “[PREEVENTS Track 2/Collaborative Research: SHADE: Surface Heat Assessment for Developed Environments](#)” with M. Berges, K. Klima and E. Bou-Zeid (\$250,000 to CMU + \$160,000 to Princeton U) [PI].

Mar 2017 - Feb 2022: NSF “CAREER: [Infrastructure Management under Model Uncertainty: Adaptive Sequential Learning and Decision](#)” (\$500,000) [PI].

Feb-Dec 2017: PITA Award: “Integrating Robotic Exploration and Adaptive Modeling of Infrastructure Networks,” with S. Kar (\$66,000) [PI].

Mar-Dec 2017: Seed grant, Siebel Energy Institute: “[Resilience of the Integrated Urban Infrastructure under Extreme events: A Sequential Decision-making Approach](#)” with B. Sinopoli (\$50,000) [PI].

Nov 2016 - Oct 2018: NSF “CRISP Type 1/Collaborative Research: [A Computational Approach for Integrated Network Resilience Analysis under Extreme Events for Financial and Physical Infrastructures](#),” with B. Sinopoli and A. Minca (\$350,000 to CMU + \$150,000 to Cornell U.) [PI].

Apr-May 2016: CMU Scott Institute Seed Grants: “Resilience of electric energy systems to extreme events: a sequential decision making perspective” with B. Sinopoli, (\$20,000) [PI].

July 2016 - July 2017: Strategic Pipeline Replacement Planning: Analytics and Monitoring, gift of People Gas, with M. Berges, B. Akinci, P. Adams, Allen Robinson (\$240,000) [Co-PI].

August 2016 - August 2018: Pennsylvania Water Resources Research Center: “Assessing Climate Change and Energy Choice Impacts on Drinking Water Quality Changes in Pennsylvania,” with J. VanBriesen, C. Samaras, (\$64,585) [Co-PI].

Jan-Dec 2016: CMU Scott Institute Seed Grants: “Hazard and risk modeling of induced seismicity” with M. Small, (\$72,720) [PI].

Jan-Dec 2016: CMU Scott Institute Seed Grants: “Multiple fault detection for HVAC systems” with H. Noh and X. Liu, (\$70,710) [Co-PI].

Jan-Dec 2015: CMU Metro21 Award: “SHADE (Surface Heat Assessment for Developed Environments)” with M. Berges, K. Klima, E. Bou-Zeid, (\$37,000) [PI].

Jan-Dec 2015: CMU Berkman Faculty Development Fund: “Conducting development research and building scientific relationships on the topic of sensing networks for urban systems” (\$4,200) [PI].

May 2014/15: PITA Award: “Probabilistic condition assessment for wind turbine components” with J. Zico Kolter (\$40,000) [PI].

May 2014: CMU CIT research equipment grant “Wireless sensing network for monitoring the new Scott Hall Building.” [PI].

March 2013: CMU CIT research equipment grant, at CMU, “A new instrumented lab for modeling and monitoring of civil systems” [Co-PI].

2010: grant from the European Commission within the 7th European Framework Program 2007-2013 - specific program “Persons” - Actions Marie Curie. (€180,000) [PI].

Teaching

at CMU, instructor for the following courses:

Spring ‘13-‘19: 12735 - Urban systems modeling (slides: <http://faculty.ce.cmu.edu/pozzi/teaching/>)

Fall ‘13-‘18: 12421 - Engineering economics and 12741 - Data management.

Coordinator of the AIS graduate seminar series for Spring ‘14, Fall ‘15, Fall ‘16, Spring ‘19 (12794).

at UC Berkeley, co-instructor for two undergraduate courses at (Fall 2011 and Spring 2012):

CE-193 “Probabilistic Methods for Eng. Risk Analysis”, and CE-93 “Engineering Data Analysis”,

at the University of Trento (2006-2010), instructor or co-instructor of courses on Steel Structures, Precast Concrete Structures, Bridge design, all in Italian.

Seminars

at [1st International Workshop on Risk and Resilience of Industrial installations against natural threats and mitigation strategies](#), Prague, Czech Republic, July 19-20, 2018.

at [COST-TU1402 Training School on the Value of SHM Information](#), “VoI in spatially distributed systems,” November 8, 2017.

at **Johns Hopkins University** (CE dept.), “Adaptive Exploration of Infrastructure Systems: Inference and Optimization,” November 2, 2017.

at [1th Int. Summ. Sch. on Mech. and Perf. of Resilient Struct. & Infrastr.](#), **Univ. of Trento**, July 3-7, 2017.

at **Trinity College**, Dublin, IR, for the 9th WorkShop of the **COST Action TU1402**: “[exploring infrastructure systems free and constrained sensing optimization](#),” May 29, 2017

at **Rice University** (CEE dept.): “Adaptive Monitoring and Maintenance Planning for Infrastructure Systems,” November 18, 2016.

at **Strathclyde Univ.**, UK (CEE dept.), “Optimal learning for infrastructure systems,” Nov. 10, 2016.

at CMU **Metro21 Distinguished Speaker Series**: Climate Change, Environmental, and Energy Issues, Heinz College, “SHADE: Surface Heat Assessment for Developed Environments,” April 26, 2016.

at **Cornell University** (CEE dept.), “Probabilistic Risk Analysis and Decision Optimization applied to Civil Infrastructures,” April 4, 2016.

at **Tufts University** (CEE dept.), “Value of information of monitoring infrastructure systems: from sensor placement to inspection scheduling,” April 1, 2016.

at **Northeastern University** (CEE dept.), “Value of information of monitoring infrastructure systems: from sensor placement to inspection scheduling,” March 31, 2016.

at **Princeton University** (CEE dept.), “how we should collect data for infrastructure management: assessing the value of information in sensor placement and inspection scheduling,” March 30, 2016.

at **Columbia University** (CEEM dept.), “Integrated monitoring and maintenance planning for infrastructure systems,” March 29, 2016.

at **Lehigh University** (CEE dept.), “Integrated monitoring and maintenance planning for infrastructure systems,” March 25, 2016.

at **University of Notre Dame** (CEE dept.), “Value of information for spatially distributed systems and for sequential decision making,” March 4, 2016.

at **University of Pittsburgh** (CEE Dept.), “exploring infrastructure systems: sensor placement and inspection scheduling by assessing the value of information,” September 30, 2015.

at **ETH** (Switzerland), to the research group of A. Krause: “Exploration of infrastructure systems: sensor placement and inspection scheduling by assessing the value of information,” August 3, 2015.

at **EPFL** (Switzerland), to the research group of I. Smith: “[Monitoring infrastructure systems: theory and practice of the value of information](#),” July 30, 2015.

at [4th Int. Summer School of Smart Materials & Structures](#), **University of Trento**, July 6-9, 2015.

at opening day, Doctoral school in civil, environmental and mechanical engineering, **University of Trento**: “Optimistic vs pessimistic planning for infrastructure systems,” March 4, 2015.

at Structural Engineering Graduate Seminar, **University of Michigan**: “Learning and planning for infrastructure systems,” November 13, 2014.

at CMU **Field Robotic Center** retreat, seminar “Civil infrastructures for robots,” March 13, 2014.

at CMU CEE dept. seminar: “Learning and planning for infrastructure systems,” April 4, 2014.

at the “[Reliability seminars](#)” series, University of California, **Berkeley**, 8 seminars:
 July 21, 2010: “Bayesian updating for long-term monitoring of structures”; January 26, 2011: “How to assess the value of information provided by a monitoring system”; March 2, 2011: “Model-based and residual-based approaches to damage detection”; April 27, 2011: “The utility of sensors for post-earthquake decision support”; October 5, 2011: “Non parametric regression for estimating the Value of Information”; January 19, 2012: “Response spectrum analysis for floor acceleration”; April 5, 2012: “Bayesian nets with Gaussian variables for post-earthquake emergency management”; September 11, 2013: “Optimal planning and learning for management of wind farms”

at **Stanford University** (CEE Dept.) seminar “Structural health monitoring and decision making using Bayesian networks” (Tue, May 22, 2012).

at the Inst. of Eng. Mech. - **University of Innsbruck**, seminar “Data analysis for SHM: the strain flexibility based method and the Bayesian approach to scenario selection,” January 24, 2008.

Publications (underlined authors are advised/co-advised PhD or MS students, or alumni of the group)

Journal Papers and book chapters:

submitted and in print:

Lin, C., Song, J., Pozzi, M., "Optimal Inspection of Network Systems via Value of Information Analysis," *subm. to Reliability Engineering & System Safety* (Elsevier).

Hashemi Tari, Y., Akinci, B., Bergés, M., Pozzi, M., "Predictive Models for Estimating the Number of Methane Leak Events in Natural Gas Distribution Pipelines," *subm. to the ASCE J. of Infrastr. Sys.*

Pozzi, M., Wu, H., Zonta, D., Inaudi, D., Glisic, B., "Bayesian logic-based damage assessment in a smart precast concrete beam," *to appear in Advances in Structural Engineering*.

published:

39. Pozzi M., Malings C., Minca A. "[Information avoidance and overvaluation under epistemic constraints: principles and implications for regulatory policies](#)," *Reliability Engineering & System Safety*, 197:106814 (Elsevier) doi.org/10.1016/j.res.2020.106814 (2020).
38. Memarzadeh, M., Pozzi, M., "[Model-free reinforcement learning with model-based safe exploration: Modeling adaptive recovery process of infrastructure systems](#)," *Structural Safety*, 80:46-55 (Elsevier) doi.org/10.1016/j.strusafe.2019.04.003 (2019).
37. Li, S., Pozzi, M., "[What Makes Long-term Monitoring Convenient? A Parametric Analysis of Value of Information in Infrastructure Maintenance](#)," *Structural Control and Health Monitoring*, 26(5):e2329 (Wiley) doi.org/10.1002/stc.2329 (2019).
36. Velibeyoglu, I., Noh, H.Y., Pozzi, M., "[Empirical Investigation of Regression Models for Predicting System Behavior in Air Handling Units](#)," *Science and Technology for the Built Environment*, 25(3):247-260 (Taylor & Francis) doi.org/10.1080/23744731.2018.1523660 (2019).
35. Velibeyoglu, I., Noh, H.Y., Pozzi, M., "[A graphical approach to assess the detectability of multiple simultaneous faults in air handling units](#)," *Energy and Buildings*, 184:275-288 (Elsevier) doi.org/10.1016/j.enbuild.2018.12.008 (2019).
34. Malings, C., Pozzi, M., "[Submodularity Issues in Value-of-Information-based Sensor Placement](#)," *Reliability Engineering & System Safety*, 183:93-103 (Elsevier) doi.org/10.1016/j.res.2018.11.010 (2019).
33. Malings, C., Pozzi, M., Klima, K., Bergés, M., Bou-Zeid, E., Ramamurthy, P., "[Surface Heat Assessment for Developed Environments: Optimizing Urban Temperature Monitoring](#)," *Building and Environment*, 141:143-154 (Elsevier) doi.org/10.1016/j.buildenv.2018.05.059 (2018).
32. Pozzi, M., Wang Q., "[Gaussian Processes regression and classification for probabilistic damage assessment of spatially distributed systems](#)," *KSCSE Journal of Civil Engineering*, 22(3):1016-1026. (Springer) doi:10.1007/s12205-018-0014-x (2018).
31. Malings, C., Pozzi, M., "[Value-of-Information in Spatio-Temporal Systems: Sensor Placement and Scheduling](#)," *Reliability Engineering & System Safety*, 172:45-57 (Elsevier) doi.org/10.1016/j.res.2017.11.019 (2018).
30. Chong, A., Lam, K.P., Pozzi, M., Yang, J., "[Bayesian calibration of building energy models with large datasets](#)," *Energy and Buildings*, 154:343-355. (Elsevier) doi.org/10.1016/j.enbuild.2017.08.069 (2017).
29. Malings, C., Pozzi, M., Klima, K., Bergés, M., Bou-Zeid, E., Ramamurthy, P., "[Surface Heat Assessment for Developed Environments: Probabilistic Urban Temperature Modeling](#)," *Computers, Env. and Urban Sys.*, 66:53-64 (Elsevier) dx.doi.org/10.1016/j.compenvurbsys.2017.07.006 (2017).
28. Pozzi, M., Memarzadeh, M., Klima, K., "[Hidden-model processes for adaptive management under uncertain climate change](#)," *ASCE's Journal of Infrastructure Systems*, 23(4):04017022 (ASCE) doi.org/10.1061/(ASCE)IS.1943-555X.0000376 (2017).
27. Kolb, C., Pozzi, M., Samaras, C., VanBriesen, J.M., "[Climate change impacts on bromide, trihalomethane formation, and health risks at coastal groundwater utilities](#)," *ASCE-ASME J. of Risk and Uncertainty in Eng. Sys., Part A: Civil Eng.*, 3(3), 04017006 (ASCE) doi.org/10.1061/AJRUA6.0000904 (2017).
26. Pozzi, M., Zonta, D., "[Model Checking after Bayesian Inference](#)," book chapter in P. Gardoni (ed), *Risk and Reliability Analysis: Theory and Applications - In Honor of Prof. Armen Der Kiureghian*, Part of Series in Reliability Eng. pp.317-339 (Springer) 10.1007/978-3-319-52425-2_14 (2017).
25. Memarzadeh, M., Pozzi, M., "[Value of Information in Sequential Decision Making: component inspection, permanent monitoring and system-level scheduling](#)," *Reliability Engineering & System Safety*, 154:137-151 (Elsevier) doi:10.1016/j.res.2016.05.014 (2016).

24. [Malings, C., Pozzi, M., "Value of Information for Spatially Distributed Systems: application to sensor placement," *Reliability Engineering & System Safety*, 154:219-233 \(Elsevier\) doi:10.1016/j.res.2016.05.010 \(2016\).](#)
23. [Memarzadeh, M., Pozzi, M., Kolter, J.Z., "Hierarchical Modeling of Systems with Similar Components: A Framework for Adaptive Monitoring and Control," *Reliability Engineering & System Safety*, 153:159-169 \(Elsevier\) doi:10.1016/j.res.2016.04.016 \(2016\).](#)
22. [Tien, C., Pozzi, M., Der Kiureghian, A., "Probabilistic framework for assessing maximum structural response based on sensor measurements," *Structural Safety*, 61:43-56 \(Elsevier\) doi:10.1016/j.strusafe.2016.03.003 \(2016\).](#)
21. [Wang, P., Small, M.J., Harbert, W., Pozzi, M., "A Bayesian approach for assessing seismic transitions associated with wastewater injections," *Bulletin of the Seismological Society of America*, 106:832-845 \(SSA\) doi:10.1785/0120150200 \(2016\).](#)
20. [Malings, C., Pozzi, M., "Conditional entropy and value of information metrics for optimal sensing in infrastructure systems," *Structural Safety*, 60:77-90 \(Elsevier\) doi:10.1016/j.strusafe.2015.10.003 \(2016\).](#)
19. [Memarzadeh, M., Pozzi, M., "Integrated inspection scheduling and maintenance planning for infrastructure systems," *Computer-Aided Civil and Infrastructure Engineering*, 31\(6\):403-415 \(Wiley\) doi: 10.1111/mice.12178 \(2016\).](#)
18. [Zonta, D., Pozzi, M., "The remarkable story of Portogruaro Civic Tower's probabilistic health monitoring," *Structural Monitoring and Maintenance*, 2\(4\):301-318 \(Techno-Press\) doi:10.12989/smm.2015.2.4.301 \(2015\).](#)
17. [Wang, P., Pozzi, M., Small, M. J., Harbert, W., "Statistical method for real-time detection of changes in seismic risk at deep-well injection sites," *Bulletin of the Seismological Society of America*, 105:2852-2862 \(SSA\), doi:10.1785/0120150038 \(2015\).](#)
16. [Cappello, C., Zonta, D., Pozzi, M., Glisic, B., Zandonini, R., "Impact of prior perception on bridge health diagnosis," *Journal of Civil Structural Health Monitoring*, 5\(4\):509-525 \(Springer\) doi:10.1007/s13349-015-0120-0 \(2015\).](#)
15. [Pozzi, M., Der Kiureghian, A., "Response spectrum analysis for floor acceleration," *Earthquake Engineering & Structural Dynamics*, 44\(12\):2111–2127. \(Wiley\) doi: 10.1002/eqe.2583 \(2015\).](#)
14. [Memarzadeh, M., Pozzi, M., Kolter, J.Z., "Optimal planning and learning in uncertain environments for the management of wind farm," *ASCE Journal of Computing in Civil Engineering*, 29\(5\):04014076 \(ASCE\) doi.org/10.1061/\(ASCE\)CP.1943-5487.0000390 \(2015\).](#)
13. [Yue, Y.C., Ma, J.X., Gao, J., Zonta, D., Pozzi, M., "Comparison of two approaches in reliability analysis for the network of Trentino's bridge management system", *Applied Mechanics and Materials*, 351-352:1700-1705 \(TTP\) doi.org/10.4028/www.scientific.net/AMM.351-352.1700 \(2013\).](#)
12. [Zonta, D., Bruschetta, F., Zandonini, R., Pozzi, M., Wang, M., Glisic, B., Daniele, Inaudi D., Posenato, D., Zhao, Y., "Sensor fusion on structural monitoring data analysis: application to a cable-stayed bridge," *Key Engineering Materials*, 569-570:812-819 \(TTP\) doi.org/10.4028/www.scientific.net/KEM.569-570.812 \(2013\).](#)
11. [Bernal, D., Zonta, D., Pozzi, M., "The ARX residuals in damage detection," *Structural Control and Health Monitoring*, 19\(4\):535–547 \(Wiley\) doi.org/10.1002/stc.452 \(2012\).](#)
10. [Pozzi, M., Zonta, D., Trapani, D., Amditis, A.J., Bimpas, M., Stratakos, Y.E., Ulieru, D., "MEMS-based sensors for post-earthquake damage assessment," *Journal of Physics: Conf. Ser.*, 305\(1\):012100 \(IOP Publ.\) \(2011\).](#)
9. [Pozzi, M., Glisic, B., Zonta, D., Inaudi, D., Lau, J.M., Fong, C.C., "Analysis of lifespan monitoring data using Bayesian logic," *Journal of Physics: Conf. Ser.*, 305\(1\):012115 \(IOP Publ.\) \(2011\).](#)
8. [Zonta, D., Wu, H., Pozzi, M., Zanon, P., Ceriotti, M., Mottola, L., Picco, G.P., Murphy, A.L., Guna, S., Corrà, M., "Wireless sensor networks for permanent health monitoring of historic constructions," *Smart Struct. and Systems*, 6\(5-6\):595-618 \(Techno-Press\) doi: 10.12989/sss.2010.6.5_6.595 \(2010\).](#)

7. Wu, H., Zonta, D., Pozzi, M., Zanon, P., Corrà, M., "[Historic Buildings: Long Term Stability Evaluation Using Wireless Sensor Networks](#)," *Advanced Materials Research*, 133-134:235-240 (TTP) doi.org/10.4028/www.scientific.net/AMR.133-134.235 (2010).
6. Zonta, D., Pozzi, M., Wu, H., Inaudi, D., "[Bayesian logic applied to damage assessment of a smart precast concrete element](#)," *Key Engineering Materials*, 413-414:351-358 (TTP) doi.org/10.4028/www.scientific.net/KEM.413-414.351 (2009).
5. Zonta, D., Pozzi, M., Zanon, P., "[Managing the historical heritage using distributed technologies](#)," *International Journal of Architectural Heritage*, 2(3):200-225 (Taylor & Francis) doi.org/10.1080/15583050802063691 (2008).
4. Pozzi, M., Zonta, D., Wu, H., Inaudi, D., "[Development and laboratory validation of in-line multiplexed low-coherence interferometric sensors](#)," *Optical Fiber Technology*, 14(4):281-293 (Elsevier) doi.org/10.1016/j.yofte.2008.01.006 (2008).
3. Zonta, D., Pozzi, M., Bursi, O. S., "[Performance evaluation of smart prefabricated concrete elements](#)," *Smart Structures and Systems*, 3(4):475-494 (Techno-Press) doi:10.12989/sss.2007.3.4.475 (2007).
2. Zonta, D., Pozzi, M., Zanon, P., "[Bayesian approach to condition monitoring of PRC bridges](#)," *Key Engineering Materials*, 347:227-232 (TTP) doi.org/10.4028/www.scientific.net/KEM.347.227 (2007).
1. Zonta, D., Pozzi, M., Forti, M., Zanon, P., "[Vibration-based condition monitoring of smart prefabricated concrete elements](#)," *Key Engineering Materials*, 293-294:743-750 (TTP) doi.org/10.4028/www.scientific.net/KEM.293-294.743 (2005).

Conference Papers

2019

Lin, C., Pozzi, M., Song, J., "[Importance measures for inspections in binary networks](#)," *Proc. of the 13th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP13)*, Seoul, South Korea, May 26-30, 2019.

Tomaselli, T., Pozzi, M., Sinopoli, B., "[Optimal Risk-Sharing Mechanism to Enhance Resilience of Communities](#)," *Proc. of the 13th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP13)*, Seoul, South Korea, May 26-30, 2019.

Li, S., Pozzi, M., "[Predicting the Condition Evolution of Controlled Infrastructure Components Modeled by Markov Processes](#)," *Proc. of the 13th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP13)*, Seoul, South Korea, May 26-30, 2019.

2018

Tomaselli, L., Pozzi, M., Sinopoli, B., "[Design of Risk-Sharing Mechanism Related to Extreme Events](#)," *Proc. of the 19th Working Conference of the IFIP Working Group 7.5 on Reliability and Optimization of Structural Systems*, ETH Zurich, Zentrum, June 26-29, 2018.

2017

Zelaschi, C., Pozzi, M., Monteiro, R., Mailings, C., "System-Level Fragility Assessment under Interdependent Spatial Demand and Structural Capacity," *Proc. 16th World Conference on Earthquake Engineering (16WCEE 2017)*, Santiago, Chile, January, 9-13, 2017.

Mailings, C., Pozzi, M., "[Optimal Sensor Placement and Scheduling with Value of Information for Spatio-Temporal Infrastructure System Management](#)," *Proc. of the 11th International Conference on Structural Safety and Reliability (ICOSSAR2017)*, Vienna, Austria. 6-10 August 2017.

Pozzi, M., Mailings, C., Minca, A.C., "[Negative value of information in systems' maintenance](#)," *Proc. of the 11th International Conference on Structural Safety and Reliability (ICOSSAR2017)*, Vienna, Austria. 6-10 August 2017.

Pozzi, M., Memarzadeh, M., "[A sequential decision making prospective on resilience](#)," *Proc. of the 11th International Conference on Structural Safety and Reliability (ICOSSAR2017)*, Vienna, Austria. 6-10 August 2017.

Wang, P., Small, M.J.S., Harbert, W., Pozzi, M., "Spatially distributed non-stationary induced-seismic hazard." *Proc. of the 11th International Conference on Structural Safety and Reliability (ICOSSAR2017)*, Vienna, Austria. 6-10 August 2017.

2016

Malings, C., Pozzi, M., Klima, K., Bou-Zeid, E., Ramamurthy, P., Bergés, M., "[Optimal Sensor Placement for Urban Heat Risk Response](#)," *Proc. 13th International Conference on Probabilistic Safety Assessment and Management (PSAM 13)* Seoul, South Korea, October, 2-7, 2016.

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