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- 2020 "Probabilistic Performance Modeling and Optimum Maintenance Planning of Plastic PipitHine PiezoelectricBased NDE Updating'DOT-PHMSA
- 2019 "Multi -Modal NDE AssistedProbabilistic Pipeline Performance Evaluation under Interactive Anomalies", DOT-PHMSA
- 2017 "Evaluation of Effective Bridge Deck Repair Maintenance Methods (PhaseH)ö, Department of Transportation (ODO).
- 2016 "Probabilistic Characterization of Bond Behavior at ReCancrete Interface in Corroded RC Structures: Experiment, Modeling, and Implementational Science Foundation (NSF)
- 2016 "Surface Applied Corrosion Inhibitors Testing", BASF.
- 2016 "Reliability-based life cycle cost analysis of corroded reinforced concrete substructures considering patch repair", NCERCAMP Project Development Grant, The University of Akron
- 2015 "Exp

- Zaker Esteghamati, M., Banazadeh, M., ahludang, Q. (2018). "The effect of design drift limit on the seismic performance of RC dual higher buildings." The Structural Design of Tall and Special Buildings 27(8): e1464.
- Nikellis, A., Eshun, K. O.Dyanati, M., Roke, D. A., Huang, Q., Chandra, A., & Sett, K. (2018). "Effect of site-specific soil nonlinearities and uncertainties on ground motion intensity measures and structural demand **preters**."Georisk: Assessment and Management of Risk for Engineered Systems and Geohazatets.
- 2017 Dyanati, M., Huang, Q., and Roke, D(2017). "Sensitivity analysis of seismic performance and loss evaluation" Bulletin of Earthquake Engine Tring DOI: 10.1007/s10518417-01506.

Chandra, Huang, Q., Roke, D., and Sett, K. (2017). Improving precision earthquake loss estimation, "Sustainable and Religint Infrastructure DOI: 10.1080/23789689.2017.1365231.

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- Huang, Q., Gardoni, P., and Hurlebaus, S. (2015). "Adaptive Reliability Analysis of Reinforced Concrete Bridges Subject to Seismic Loading Using Nondestructive Testing,"al of Risk & Uncertainty in Engineeringsystems, Part A: Civil Engineering, 1(4): 04015014.
- 2014 Fan, H., Huang, Q., and Liang, R. (2014). "Reliability and Importance Analysis of Piles in Spatially Varying Soils Considering Multiple Failure Modes," Computers and Geotection 97-104.
- 2013 Pagnotta, A., Trejo, D., Gardoni, P., and Huang, (2013). "Effects on ImpactEcho signals caused by adjacent steel reinforcing bars and voids isplace regions: Experimental study," ACI Special Publication, 292: 14.
- 2012 Huang, Q., Gardoni, Baraga, dQBu (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1997)

Dyanati, M., Huang, Q., and Roke, D. (2015)"Life Cycle CostBenefit Evaluation of Self centering and Conventioh@oncentrically Braced Framesl,"2th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP12, Vancouver, Canada.

2014 Dyanati, M., and Huang, Q. (2014). "Seismic Reliability of a Fixed Offore Platform Against Collapse,"Proceedings of the ASME 2014 33rd International Conference on Ocean, Offshore and Ardic Engineering San Francisco, CA.

Dyanati, M., Huang, Q., and Roke, Tw 3., •.9(2)11.6 (2.9 (i)-96 -1.144gt7 (Ic)-1.6 (e)a)-1.6-1.7 (c

- Huang, Q., Gardoni, P., and Hurlebaus, S. (2009) dating Structural Properties Using Vibration based Nondestructive Testing with Modal Parameters," The 7th International Symposium on Non Destructive Testing in Civil Engineering (NDTCE'09), Nantes, France.
- 2007 Huang, Q. (2007) "Vibration Based EnergyHarvesting Technique to Drive Wireless Sensor Networks," The Proceedings of 1st Civil Engineering Student Research Symposize A&M University, College Station, TX.

INVITED PRESENTATIONS

- 2017 "Application of Life-cycle Cost Analysis in Civil Engineeng," Center for Environmentally Sustainable Transportation in Cold Climateshiversity of Alaska Fairbanks, Apr. 27, 2017.
- 2016 "Reliability-Based Corrosion Management of Pipelines Using ILI DatațidNal Corrosion and Materials Reliability 1st WorkshopTexas A&M University College Station, Aug. 9, 2016.
 - "Application of Life-cycle Cost Analysis in Civil Engineering," College of Transportation Engineering, Tongji University, Shanghai, Jul. 29, 201
 - "CostBenefit Evaluation of SelCentering Concentrically Braced FrameBepartment of Civil Engineering, Case Western Universitian. 15, 2016.
- 2015 "Cost-Benefit Evaluation of SelCentering Concentrically Braced Frames Considering Uncertainties," Research for LuncThe University of Akron, Nov. 5, 2015.

CONFERENCEPRESENTATIONS(BY RESEARCH TEAM)

2021 "RebarConcrete Bond Strength Prediction Considering Corrosion and Bond Failure,"Mode N 0d7C [(C)4 (ona.63).011 Tw [(5)-11 (1r003 ()r)03 45 oen R1a312 0i(e)-1.7sond k oneof- (nd)1nf

- 2014 "Seismic Reliability of a Fixed Offsore Platform against Collapse," ASME 2014 33rd InternationalConference on Ocean, Offshore and Arctic Engineering, San Francisco, CA.
 "Structural and Nonstructural Performance Evaluation of-Selfitering Concentrically Brade Frames Under Seismic Loadingstructures Congress 2014, Boston, MA.
- 2013 "Flexural behavior of corroded RC beams rehabilitated using peptitir,"

"Updating Structural Properties using Modal Parameters Considering Measurement Errors," Structures Congress 20,04 pr. 30–May 2, 2009, Austin, TX.

2008 "Probabilistic Demand Models and Fragility Estimates for Reinforced Concrete Highway Bridges with One Single

- í Investigating potential NDE methods tletect debonding between the rebar and concrete in reinforced concrete (RQ)olumnssubjected to ASR/DEF
- í Evaluating the capacity office deteriorated RC columns subjected to ASH

Graduate Research Assistant Texas A&M University College Station, TX 2006 – 2010 Research projectAdaptive Reliability Analysis of RCBridges Using Nondestructive Testing (NDT)

- í Developed probabilistic capacitnd seismic demand models for RC bridges
- í Developed a probabilistic damage detection approach using vibbatisend NDT
- i Developed an adaptive reliability framework RC bridges incorporating the information obtained from NDT

Research project/Vireless Instrumentation for Railroad Infrastructure Management

- í Investigated damage identification methods that can be programmed in the wireless sensors
- í Clarified the modaparameter extracting method program used in the wireless sensors

Structural Engineer Malcolm Pirnie, Inc., Columbus, OH

2004

í	The State Water Resources Research Institute (WRRI) Program	2017
í	National Science FoundatioN\$F) Proposal Review Panel	2012, 2016
í	Annual Small Grants prograntlinois Water Resources Center	2016

í Engineering Mechanics