



Sadeqh Etedali

Ph.D. of Civil Engineering (Structural Engineering)
Associate Professor

CONTACT INFORMATION

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Scopus

Google Scholar

RESEARCH INTERESTS

- Smart Materials and Structures
- Structural Control
- Passive Isolation
- Control algorithms
- Structural Dynamic
- Earthquake Engineering
- Soil-Structure Interaction
- Soft Computing
- Reliability of Structures
- Structural Optimization
- RBDO

BIOGRAPHY

Sadeqh Etedali was born in Zahedan, Iran on January 2, 1983. Sadeqh Received his Ph.D. degree in Structural Engineering from the University of Sistan and Baluchestan, Zahedan, Iran in 2014. After graduation, Sadeqh Joined the Department of Civil Engineering at the Birjand University of Technology (BUT), Birjand, Iran. He is currently an associate professor in the Department of Civil Engineering, BUT. Dr. Etedali has more than 8 years of experience in the field of structural vibration and control, soil-structure interaction, smart structures, soft computing, structural optimization, and structural reliability. He has published more than 80 scientific papers in journals and proceedings at national and international levels. He supervised/advised 15 M.Sc. and 5 Ph.D. students.

EDUCATION

Doctor of Philosophy (Ph.D.) in Civil Engineering (Structural Engineering), University of Sistan and Baluchestan, GPA: 19.54 of 20

- ✓ Ph.D. Thesis: "*Seismic Control of Smart Structures Using PID Controller*", Thesis Score: 19.90 of 20, Supervisor: Dr. Mohammad Reza Sohrabi, Department of Civil Engineering, University of Sistan and Baluchestan; Advisor: Dr. Saeed Tavakoli, Department of Electrical and Control Engineering, University of Sistan and Baluchestan
- ✓ M.Sc. Thesis: "*An investigation of the performance of seismic isolators in improving the seismic response of asymmetric steel structures in plan*", Thesis Score: 19.50 of 20, Supervisor: Dr. Mohammad Reza Sohrabi, Department of Civil Engineering, University of Sistan and Baluchestan

SCIENTIFIC AND PROFESSIONAL BACKGROUND

- ✓ Associate Professor, Department of Civil Engineering, Birjand University of Technology (June 2018-Now)
- ✓ Assistant Professor, Department of Civil Engineering, Birjand University of Technology (March 2014-June 2018)
- ✓ Scholarship for Ph.D., Birjand University of Technology (March 2011 to March 2014)
- ✓ Top student in Ph.D., M.Sc., and B.Sc.

TEACHING EXPERIENCE

Birjand University of Technology- (January 2014 - Now)

- Principles of Earthquake Engineering, B.Sc. in Civil Engineering
- Structural Analysis II, B.Sc. in Civil Engineering
- Engineering Mechanics (Static, Dynamic), B.Sc. in Civil Engineering
- Computer Programming, B.Sc. in Civil Engineering
- Introduction to Modeling and Simulation, B.Sc. in Civil Engineering
- National Building Code, B.Sc. in Civil Engineering
- Repair and Maintenance of Structures, B.Sc. in Civil Engineering
- Soil Dynamics, B.Sc. in Civil Engineering
- Specialized Project, B.Sc. in Civil Engineering
- Analyses and design of Concrete and Steel Structures - Project, B.Sc. in Civil Engineering

Birjand Hormozan University (September 2014 - September 2017)

- Seismic Analysis of Structures, M.Sc. in Structural Engineering
- Structure Control, M.Sc. in Structural Engineering

Islamic Azad University, Birjand Branch (September 2014 - January 2015)

- New Structures, M.Sc. in Architectural Engineering

University of Sistan and Baluchestan (January 2012 – May 2013)

- Engineering Mechanics (Static, Dynamic) in B.Sc. in Civil Engineering
- Strength of Materials in B.Sc. in Civil and Material Engineering

Islamic Azad University of Zahedan (September 2009 - June 2014)

- Principles of Earthquake Engineering), B.Sc. in Civil Engineering
- Engineering Mechanics (Static, Dynamic), B.Sc. in Civil Engineering
- Soil Dynamics, B.Sc. in Civil Engineering
- Fluid Mechanics, B.Sc. in Civil Engineering
- Road Pavement, B.Sc. in Civil Engineering
- Transportation Engineering, B.Sc. in Civil Engineering

JOURNAL PAPERS (UNDER REVIEW)

1. Failure probability of tall buildings with TMD under near-field pulse-like ground motions considering SSI effects using subset simulation method
2. A new control approach for seismic control of buildings equipped with active mass damper: optimal fractional-order brain emotional learning
3. Semi-active control of structures with MR dampers: a decentralized interval type-2 fractional-order fuzzy PID controller optimized based on the energy concepts
4. A new framework of optimal FOPID controller series with fuzzy PD controller toward seismic control of structures equipped with ATMD including SSI effects
5. Robust output feedback based ANFIS controller in different soil conditions for seismic mitigation of tall buildings
6. Reliability-based optimal control design of base-isolated structures with MR damper
7. Active control of a structure equipped with optimal friction tuned mass damper using an adaptive radial basis function PID controller

JOURNAL PAPERS (PUBLISHED)

1. **Etedali, S.**, Akbari, M., & Seifi, M. (2022). Friction tuned mass damper in high-rise buildings with SSI effects: A reliability assessment. *Journal of Earthquake and Tsunami*. (Accepted)
2. Hosseinaei, S., Ghasemi, M. R., **Etedali, S.**, & Chan, T. H. (2022). Reliability-based optimal control design for seismic-excited structures: a hybrid IS-MTLBO pseudo-double loop method. *Structures*. (Accepted)
3. Jarrahi, H., Asadi, A., Khatibinia, M., **Etedali, S.**, & Paknehad, S. (2022). Assessment of soil-structure interaction effects on the seismic performance of steel moment-resisting frames equipped with optimal rotational friction dampers. *Structures*. (Accepted)
4. Zamani, A. A., & **Etedali, S.** (2022). New formulas for optimal TMD tuning using genetic programming method and their application for seismic-excited structures. *Modares Civil Engineering Journal*. (Accepted)
5. **Etedali, S.**, & Zamani, A. A. (2022). Semi-active control of nonlinear smart base-isolated structures using MR damper: Sensitivity and reliability analyses. *Smart Materials and Structures*, 31, 065021.
6. **Etedali, S.** (2022). Probabilistic study on buildings with MTMD system in different seismic performance levels. *Structural Engineering and Mechanics*, 81(4), 429-441.
7. Hosseinaei, S., Ghasemi, M. R., **Etedali, S.**, & Chan, T. H. (2022). Sensitivity and Reliability Analyses into Actively Controlled Structures Under Earthquake. *International Journal of Structural Stability and Dynamics*, 2250124.

8. Hashemi, S. V., Miri, M., Rashki, M., & **Etedali, S.** (2022). Multi-objective optimal design of SC-BRB for structures subjected to different near-fault earthquake pulses, *Structures*, 36, 1021-1031.
9. Zamani, A. A., & **Etedali, S.** (2022). Seismic Response Prediction of Open-and Closed-Loop Structural Control Systems Using a Multi-State-Dependent Parameter Estimation Approach. *International Journal of Computational Methods*, 2250006.
10. Hashemi, S. V., Miri, M., Rashki, M., & **Etedali, S.** (2022). Effect of uncertainties on the seismic performance of steel buckling-restrained braced frames equipped with intelligent materials, *Journal of Structural and Construction Engineering*. (Accepted)
11. **Etedali, S.**, & Kareshk, M. K. (2022). Mitigation of torsional responses in asymmetric base-isolated structures using an optimal distribution of isolators in base story. *Structures*, 35, 807-817.
12. **Etedali, S.**, & Shahi, M. (2021). A control scheme for AMD in the presence of time-delays and SSI effects for tall buildings. *Structural Engineering and Mechanics*, 79(2), 267-278.
13. Zamani, A. A., & **Etedali, S.** (2021). Optimal fractional-order PID control design for time-delayed multi-input multi-output seismic-excited structural system. *Journal of Vibration and Control*, <https://doi.org/10.1177/10775463211053188>.
14. Hashemi, S. V., Miri, M., Rashki, M., & **Etedali, S.** (2021). Reliability and reliability-based sensitivity analysis of self-centering buckling restrained braces using meta-models. *Journal of Intelligent Material Systems and Structures*, 1045389X211026382.
15. Hashemi, S. V., Miri, M., Rashki, M., & **Etedali, S.** (2021). Investigation of the Sidesway Collapse and Seismic Fragility Analysis of Frames with BRB Equipped with SMAs. *Amirkabir Journal of Civil Engineering*. In Press.
16. Zamani, A. A., & **Etedali, S.** (2021). A new framework of multi-objective BELBIC for seismic control of smart base-isolated structures equipped with MR dampers. *Engineering with Computers*, 1-14.
17. **Etedali, S.**, Bijaem, Z. K., Mollayi, N., & Babaiyan, V. (2021). Artificial Intelligence-Based Prediction Models for Optimal Design of Tuned Mass Dampers in Damped Structures Subjected to Different Excitations. *International Journal of Structural Stability and Dynamics*, 2150120.
18. Hosseinaei, S., Ghasemi, M. R., & **Etedali, S.** (2021). Optimal design of passive and active control systems in seismic-excited structures using a new modified TLBO. *Periodica Polytechnica Civil Engineering*, 65(1), 37-55.
19. Jarrahi, H., Asadi, A., Khatibinia, M., **Etedali, S.**, & Samadi, A. (2020). Simultaneous optimization of placement and parameters of rotational friction dampers for seismic-excited steel moment-resisting frames. *Soil Dynamics and Earthquake Engineering*, 136, 106193.
20. **Etedali, S.** (2020). Ranking of design scenarios of TMD for seismically excited structures using TOPSIS. *Frontiers of Structural and Civil Engineering*, 14(6), 1372-1386.

21. **Etedali, S.**, Hasankhoie, K., & Sohrabi, M. R. (2020). Optimal design of pure-friction isolators with and without restoring device: A multi-objective cuckoo search-based approach for seismic-excited structures. *Structures* (25), 708-719.
22. **Etedali, S.**, Hasankhoie, K., & Sohrabi, M. R. (2020). Seismic responses and energy dissipation of pure-friction and resilient-friction base-isolated structures: A parametric study. *Journal of Building Engineering*, 29, 101194.
23. Shahi, M., Sohrabi, M. R., & **Etedali, S.** (2018). Seismic control of high-rise buildings equipped with ATMD including soil-structure interaction effects. *Journal of Earthquake and Tsunami*, 12(03), 1850010.
24. Keshtegar, B., & **Etedali, S.** (2018). Nonlinear mathematical modeling and optimum design of tuned mass dampers using adaptive dynamic harmony search algorithm. *Structural Control and Health Monitoring*, 25(7), e2163.
25. **Etedali, S.**, Zamani, A. A., & Tavakoli, S. (2018). A GBMO-based $PI^{\lambda}D^{\mu}$ controller for vibration mitigation of seismic-excited structures. *Automation in Construction*, 87, 1-12.
26. Zamani, A. A., Tavakoli, S., **Etedali, S.**, & Sadeghi, J. (2018). Adaptive fractional-order fuzzy proportional–integral–derivative control of smart base-isolated structures equipped with magnetorheological dampers. *Journal of Intelligent Material Systems and Structures*, 29(5), 830-844.
27. **Etedali, S.**, & Mollayi, N. (2018). Cuckoo search-based least squares support vector machine models for optimum tuning of tuned mass dampers. *International Journal of Structural Stability and Dynamics*, 18(02), 1850028.
28. **Etedali, S.**, Seifi, M., & Akbari, M. (2018). A numerical study on optimal FTMD parameters considering soil-structure interaction effects. *Geomechanics and Engineering*, 16(5), 527-538.
29. Shourestani, S., Soltani, F., Ghasemi, M., & **Etedali, S.** (2018). SSI effects on seismic behavior of smart base-isolated structures. *Geomechanics & engineering*, 14(2), 161-174.
30. Zamani, A. A., Tavakoli, S., **Etedali, S.**, & Sadeghi, J. (2018). Online tuning of fractional order fuzzy PID controller in smart seismic isolated structures. *Bulletin of Earthquake Engineering*, 16(7), 3153-3170.
31. **Etedali, S.** (2017). A new modified independent modal space control approach toward control of seismic-excited structures. *Bulletin of Earthquake Engineering*, 15(10), 4215-4243.
32. Jarrahi, H., Asadi, A., Khatibinia, M., & **Etedali, S.** (2020). Optimal design of rotational friction dampers for improving seismic performance of inelastic structures. *Journal of Building Engineering*, 27, 100960.
33. **Etedali, S.** (2019). Sensitivity analysis on optimal PID controller for nonlinear smart base-isolated structures. *International Journal of Structural Stability and Dynamics*, 19(07), 1950080.

34. Zamani, A. A., Tavakoli, S., **Etedali, S.**, & Sadeghi, J. (2019). Modeling of a magneto-rheological damper: An improved multi-state-dependent parameter estimation approach. *Journal of Intelligent Material Systems and Structures*, 30(8), 1178-1188.
35. **Etedali, S.**, Akbari, M., & Seifi, M. (2019). MOCS-based optimum design of TMD and FTMD for tall buildings under near-field earthquakes including SSI effects. *Soil Dynamics and Earthquake Engineering*, 119, 36-50.
36. Hosseini, S. A., & **Etedali, S.** (2020). Laboratory evaluation of bond strength between rebar and concrete containing limestone powder. *Amirkabir Journal of Civil Engineering*, 52(9), 10-10.
37. **Etedali, S.**, & Rakhshani, H. (2018). Optimum design of tuned mass dampers using multi-objective cuckoo search for buildings under seismic excitations. *Alexandria engineering journal*, 57(4), 3205-3218.
38. **Etedali, S.**, & Tavakoli, S. (2017). PD/PID controller design for seismic control of high-rise buildings using multi-objective optimization: a comparative study with LQR controller. *Journal of Earthquake and Tsunami*, 11(03), 1750009
39. Zamani, A. A., Tavakoli, S., & **Etedali, S.** (2017). Control of piezoelectric friction dampers in smart base-isolated structures using self-tuning and adaptive fuzzy proportional-derivative controllers. *Journal of Intelligent Material Systems and Structures*, 28(10), 1287-1302.
40. Zamani, A. A., Tavakoli, S., & **Etedali, S.** (2017). Fractional order PID control design for semi-active control of smart base-isolated structures: a multi-objective cuckoo search approach. *ISA transactions*, 67, 222-232.
41. Keshtegar, B., & **Etedali, S.** (2017). Evaluating Failure Probability of Rectangular Plates with Different Boundary Conditions using the Dynamic Finite-step Length Method. *Journal of Ferdowsi Civil Engineering*, 30(1).
42. Keshtegar, B., & **Etedali, S.** (2016). Novel mathematical models based on regression analysis scheme for optimum tuning of TMD parameters. *Journal of Solid and Fluid Mechanics*, 6(4), 59-75.
43. Heidari, A. H., **Etedali, S.**, & Javaheri-Tafti, M. R. (2018). A hybrid LQR-PID control design for seismic control of buildings equipped with ATMD. *Frontiers of Structural and Civil Engineering*, 12(1), 44-57.
44. **Etedali, S.**, & Sohrabi, M. R. (2016). A proposed approach to mitigate the torsional amplifications of asymmetric base-isolated buildings during earthquakes. *KSCE Journal of Civil Engineering*, 20(2), 768-776.
45. **Etedali, S.**, Tavakoli, S., & Sohrabi, M. R. (2016). Design of a decoupled PID controller via MOCS for seismic control of smart structures. *Earthquakes and Structures*, 10(5), 1067-1087.

46. **Etedali, S.** (2016). Reliability analysis of un-retrofitted and retrofitted concrete columns in Iran's building site conditions. *International Journal of Structural Engineering*, 7(2), 180-192.
47. **Etedali, S.**, & Irandegani, M. A. (2015). A proposed lateral load pattern for pushover analysis of structures subjected to earthquake excitations. *Journal of Vibroengineering*, 17(3), 1363-1371.

CONFERENCE PAPERS

1. **Etedali, S.** (2022, March). Time-delay effect on seismic performance of smart structures with resilient friction base isolation system. *The 4th National Conference on Computational and Experimental Mechanics*, Shahid Rajaei Teacher Training University, Tehran, Iran. (In Persian)
2. **Etedali, S.** (2022, March). A multi-objective optimal design of rubber bearing isolators for seismic-excited structures. *The 4th National Conference on Computational and Experimental Mechanics*, Shahid Rajaei Teacher Training University, Tehran, Iran. (In Persian)
3. **Etedali, S.**, Bijaem, Z. K., & Mollayi, N. (2020, May). Optimal design of tuned mass damper under harmonic base acceleration using adaptive neuro-fuzzy inference system. *The 7th National Conference on Applied Research in Civil Engineering, Architecture, and Urban Management*, Khajeh Nasir Toosi University of Technology, Tehran, Iran. (In Persian)
4. **Etedali, S.**, Bijaem, Z. K., & Mollayi, N. (2020, May). An MLP-based model for optimal estimation of TMD parameters in damped structures under white-noise base acceleration, *The 7th National Conference on Applied Research in Civil Engineering, Architecture and Urban Management*, Khajeh Nasir Toosi University of Technology, Tehran, Iran. (In Persian)
5. Jarrahi, H., Asadi, A., Khatibinia, M., & **Etedali, S.** (2018, October). Sensitivity analysis of parameters of rotational friction damping, *The 1st National Conference on Infrastructure Engineering*, Urmia University, Urmia, Iran. (In Persian)
6. Hasankhoie, K., Sohrabi, M. R., & **Etedali, S.** (2018, September). Optimal design of friction isolators with and without restoring device using cuckoo search algorithm, *The 3rd International Conference and 7th National Conference on Civil Engineering Materials and Structures*, Bu-Ali Sina University, Hamedan, Iran. (In Persian)
7. Hasankhoie, K., Sohrabi, M. R., & **Etedali, S.** (2018, September). Parametric study of pure-friction seismic isolators equipped with restoring force device. *The 3rd International Conference and 7th National Conference on Civil Engineering Materials and Structures*, Bu-Ali Sina University, Hamedan, Iran. (In Persian)

8. Bonyadi M. J., **Etedali, S.**, & Ghods A. (2018, March). Evaluation of the performance of base isolators on reducing the seismic responses of tall structures considering soil-structure interaction effects. *The 2nd International Conference on Applied Researches in Structural Engineering and Construction Management*, Sharif University of Technology, Tehran, Iran. (In Persian)
9. Bonyadi M. J., **Etedali, S.**, & Ghods A. (2018, March). Multi-objective optimal design of seismic isolators in structures located on soft soil using multi-objective particle swarm algorithm. *The 2nd International Conference on Applied Researches in Structural Engineering and Construction Management*, Sharif University of Technology, Tehran, Iran. (In Persian)
10. Nabavi Moghaddam, M., & **Etedali, S.** (2017, July). Optimal tuning of nonlinear seismic isolators using multi-objective particle swarm optimization algorithm. *The 2nd International Conference on Civil Engineering, Architecture, and Crisis Management*, Alameh-Amini University, Tehran, Iran. (In Persian)
11. Shahi, M., Sohrabi, M. R., & **Etedali, S.** (2016, December). Performance evaluation of optimal PID control on seismic behavior of smart tall buildings equipped with TMD considering SSI effects. *The 4th international congress of structure, architecture and urban development*, Shahid Beheshti University, Tehran, Iran. (In Persian)
12. Khosravi Karashk, M., **Etedali, S.** (2016, November). Torsional reinforcement of asymmetric base-isolated structure with optimal distribution of base isolators at the base story. *The 3rd National Conference on Civil Engineering and Sustainable Development of Iran*, Tehran, Iran. (In Persian)
13. Rostampour, M., **Etedali, S.**, Mollayi, N. (2016, November). A model based on least-squares support-vector machine for modeling and identification of MR dampers. *The 3rd National Conference on Civil Engineering and Sustainable Development of Iran*, Tehran, Iran. (In Persian)
14. Akbari, M., **Etedali, S.**, & Narmashiri, K. (2016, June). Optimal design of friction tuned mass dampers in tall structures considering soil-structure interaction effects using particle swarming algorithm. *International Conference on Urban, Civil, Architecture Engineering*, University of Tehran, Qom, Iran. (In Persian)
15. Seifi, M., **Etedali, S.**, & Ghods, A. (2016, June). Parametric study of passive friction tuned mass damper in seismic-excited structures considering soil-structure interaction. *International Conference on Urban, Civil, Architecture Engineering*, Qom, Iran. (In Persian)
16. **Etedali, S.** (2016, May). Semi-active control of piezoelectric friction dampers using an optimal PID controller taking into account the soil-structure interaction effects. *The 2nd International Conference on New Research Achievement in Civil Engineering, Architecture & Urban Management*. Amirkabir University of Technology, Tehran, Iran. (In Persian)
17. **Etedali, S.** (2016, May). Evaluation of seismic behavior of a new type of isolators combined with LRB and sliding isolators. *The 2nd International Conference on New*

Research Achievement in Civil Engineering, Architecture & Urban Management. The Amirkabir University of Technology, Tehran, Iran. (In Persian)

18. Shourestani, S., Soltani, F., Ghasemi, M., & **Etedali, S.** (2016, May). Parametric studies of base-isolated structures considering soil-structure interaction effects. *The 2nd International Conference on New Research Achievement in Civil Engineering, Architecture & Urban Management*. Amirkabir University of Technology, Tehran, Iran. (In Persian)
19. Akbari, M., **Etedali, S.**, & Narmashiri, K. (2016, May). Optimal tuning of friction tuned mass dampers in tall structures using particle swarm algorithm. *International conference of Civil Engineering*, University of Tehran, Tehran, Iran. (In Persian)
20. Seifi, M., **Etedali, S.**, & Ghods, A. (2016, May). Parametric study of passive friction tuned mass dampers in seismic-excited structures. *International conference of Civil Engineering*, University of Tehran, Tehran, Iran. (In Persian)
21. Shourestani, S., Soltani, F., Ghasemi, M., & **Etedali, S.** (2016, May). Parametric studies of smart base-isolated structures with soil-structure interaction effects. *International conference of Civil Engineering* University of Tehran, Tehran, Iran. (In Persian)
22. **Etedali, S.** (2015, September). Seismic hazard analysis and presentation of the special spectrum of the construction site in Zahedan. *The 2nd International Conference on Geotechnical and Urban Earthquake Engineering*. Tabriz, Iran. (In Persian)
23. Heidari, A. M., **Etedali, S.**, Javaheri, M. R. (2015, September). Seismic control of structures equipped with active mass dampers using LQR-PID controller. *The 2nd International Conference on Geotechnical and Urban Earthquake Engineering*. Tabriz, Iran. (In Persian)
24. Majidi, H., **Etedali, S.**, Javaheri, M. R. (2015, September). Optimal design of multiple tuned mass damper parameters using a multi-objective cuckoo search optimization algorithm. *The 2nd International Conference on Geotechnical and Urban Earthquake Engineering*. Tabriz, Iran. (In Persian)
25. **Etedali, S.**, Mansouri, I. (2015, January). Active control of structures under earthquakes using a robust PID controller. *The 1st National Conference on Iranian Structural Engineering*, Iranian Society of Structural Engineering, Tehran, Iran. (In Persian)
26. **Etedali, S.**, Shabakhti, N. (2015, January). Reliability analysis of unreinforced and reinforced T-shaped concrete beams. *The 1st National Conference on Iranian Structural Engineering*, Iranian Society of Structural Engineering, Tehran, Iran. (In Persian)
27. Mansouri, I., **Etedali, S.** (2015, January). An effective method to reduce computational time in the nonlinear analysis of structures. *The 1st National Conference on Iranian Structural Engineering*, Iranian Society of Structural Engineering, Tehran, Iran. (In Persian)
28. Tatari, S., **Etedali, S.** (2015, February). Investigation of common and modern methods of stabilization of excavations. *The 3rd National Conference on New Materials and Structures in Civil Engineering*, Semnan University, Semnan, Iran. (In Persian)

29. Mansouri, I., **Etedali, S.** (2014, November). Prediction of shear strength of RC beams using decision tree method. *The 2nd International Congress on Structure, Architecture, and Urban Development*, Tabriz, Iran.
30. **Etedali, S.**, Mansouri, I. (2014, November). Modeling of seismic isolators with existing software. *The 2nd International Congress on Structure, Architecture, and Urban Development*, Tabriz, Iran. (In Persian)
31. **Etedali, S.**, Hosseini, H. (2014, November). Evaluation of common roofs of building from operational and economic points of view. *The 2nd International Congress on Structure, Architecture, and Urban Development*, Tabriz, Iran. (In Persian)
32. **Etedali, S.** (2014, August). The effect of increasing the stiffness of the superstructure on the seismic response of base-isolated tall structures. *The 3rd National Conference on New Technologies in the Construction Industry*, Mashhad, Iran. (In Persian)
33. **Etedali, S.** (2014, August). Torsional strengthening of asymmetric shear base-isolated structures. *The 3rd National Conference on New Technologies in the Construction Industry*, Mashhad, Iran. (In Persian)

RESEARCH PROJECTS

- Mansouri, I., **Etedali, S.** Investigation and presentation of seismic rehabilitation designs for special repetitive schools (dome and masonry buildings), Organization for Development, Renovation and Equipping schools (DRES), South Khorasan Province, June 2018.
- Mansouri, I., **Etedali, S.** Seismic rehabilitation studies of 9 + 2 schools in South Khorasan province, Organization for Development, Renovation and Equipping schools (DRES), South Khorasan Province, June 2018.
- Ghods, H., **Etedali, S.** Evaluation of suitable options for seismic rehabilitation of schools in Sistan and Baluchestan province. Organization for Development, Renovation and Equipping schools (DRES), Sistan and Baluchestan Province, December 2014.

BOOKS

- ❖ Tavakoli, S., Zamani, A. A., & **Etedali, S.** (2022). Seismic control of smart structures using the family of PID controllers. Sistan and Baluchestan University Press, (In Persian).

SUPERVISOR/ADVISOR OF M.SC. AND PH.D. THESIS

Ph.D. Thesis:

1. Shahi, M., "*Seismic Control of Structures considering SSI Effects Using Model Predictive Control*", The Second Supervisor, (In Persian).
2. Hashemi, S. V., "*Reliability-Based Design Optimization of Steel Buckling Restrained Brace Frames Equipped with Smart Material*", Advisor, (In Persian).
3. Hosseinaei, S., "*Reliability-Based Control Design for Seismic-Excited Structures*", Advisor, (In Persian).
4. Zamani, A. A., "*Adaptive control strategies for smart base-isolated structures*", Advisor, (In Persian).
5. Jarrahi, H., "*Optimal Design of Friction Dampers Taking into Account the Nonlinear Behavior of Structures*", Advisor, (In Persian).

M.SC. Thesis:

1. Akbari, M., "*Seismic Control of Tall Buildings Equipped with Semi-Active Friction Tuned Mass Dampers Including Soil-Structure Interaction*", Supervisor, (In Persian).
2. Seifi, M., "*Parametric Study on Seismic Behavior of Buildings Equipped with Passive Friction Tuned Mass Dampers Including Soil-Structure Interaction*", Supervisor, (In Persian).
3. Majidi, M., "*Optimum Design of Multiple Tuned Mass Dampers Subjected to Earthquake*", Supervisor, (In Persian).
4. Heidari, A. H., "*Seismic control of buildings equipped with Active Tuned Mass Dampers using LQR-PID controller*", Supervisor, (In Persian).
5. Shourestani, S., "*Seismic Behavior of Smart Base-Isolated Structures Including Soil-Structure Interaction (SSI)*", Advisor, (In Persian).
6. Miri, S., "*Prediction of Concrete Strength Using Neural-Fuzzy Networks and Genetic Algorithm*", Supervisor, (In Persian).
7. Shahi, M., "*Seismic Control of Smart Tall Buildings Equipped With TMD Considering SSI*", The Second Supervisor, (In Persian).
8. Rostampour, M., "*Least Squares Support Vector Machine-Based Model for Semi-active Control of Seismic-Excited Structures Equipped with MR Dampers*", Supervisor, (In Persian).
9. Khosravi Karashk, M., "*Torsional strengthening of base-isolated asymmetric structures using an optimal distribution of isolators of the base story*", Supervisor, (In Persian).
10. Nabavi-Moghaddam, M., "*Optimum Tuning of Nonlinear Seismic Isolators Using Multi-Objective Swarm Optimization*", Supervisor, (In Persian).
11. Bonyadi, M. J., "*Evaluation of Seismic Responses of Tall Base-Isolated Buildings Including Soil-Structure Interaction*", Supervisor, (In Persian).
12. Hasankhoie, K., "*Parametric Study and Optimal Design of Friction Seismic Isolators with and without Restoring System*", The Second Supervisor, (In Persian).
13. Khosravi, Z., "*Optimal Estimation of Tuned Mass Damper (TMD) Parameters Using Artificial Intelligence Techniques*", Supervisor, (In Persian).

SOFTWARE SKILLS

- Office Software
- SAP/ETABS/ SAFE/ Software
- MATLAB/Simulink Software
- Open Sees software
- ABAQUS software
- SeismoSignal software
- ...

REVIEWING ACTIVITIES FOR ISI JOURNALS

- Mechanical systems and Signal Processing
- Smart Materials and Structures
- Journal of Vibration and Control
- Journal of Building Engineering
- IEEE Access
- The Structural Design of Tall and Special Buildings
- Structures
- Structural Engineering and Mechanics,
- International Journal of Structural Stability and Dynamics
- Earthquake Engineering and Engineering Vibration
- Bullion of Earthquake Engineering
- Mechanics of Advanced Composite Structures
- Advances in Civil Engineering
- Complexity
- Journal of Structure and Steel
- Mechanics of Advanced Composite Structures
- Advances in Structural Engineering
- International Journal of Structural Engineering
- Advances in Building Energy Research
- International Journal of Dynamics and Control
- Iranian Journal of Science and Technology Transactions of Civil Engineering
- Journal of Vibroengineering
- Civil Engineering Journal-Ferdowsi University of Mashhad
- Modeling in Engineering
- Journal of Civil and Environmental Engineering, University of Tabriz
- Shock and Vibration
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