Sahand University of Technology

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Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	Tenured	Full Time	14

Papers in Conferences

1. Zanyar Delgarm , Arash Akbari Hamed , Parinaz Poursedigh،Evaluation of the classical genetic algorithm method in optimizing the performance-based design of steel frames،Proceedings of the ۱۳th National Conference of Steel and Structure،۲۰۲۴.
2. Sina Alami , Mehdi Poursha , Arash Akbari Hamed،Parametric study of factors affecting seismic performance of braced frames with yielding curved dampers،Proceedings of the ۱۳th National Conference of Steel and Structure،۲۰۲۴.
3. Sina Alami , Arash Akbari Hamed , Mehdi Poursha،Multi-level lever braced system (MLBS) with hybrid steel curved damper،Proceedings of the ۱۴th National Congress on Civil Engineering،Zanjan،۲۰۲۴.
4. Arash Akbari Hamed , Mahsa Saeidzadeh , Hesam Bafandeh Nobari،Economic and Sustainable Seismic Base Isolators: Experimental and Numerical Study،Proceedings of the ۹th International Conference on Seismology and Earthquake Engineering،Tehran،۲۰۲۴.
5. Ali Ghordoui , Arash Akbari Hamed , Mohammad Charkhtab Basim،Comparison of seismic performance and cost of different bracing systems،Proceedings of the ۱۲th National Congress on Civil Engineering،Tabriz،۲۰۲۰.
6. Vahid Amiri , Arash Akbari Hamed , Karim Abedi،Numerical investigation of the behavior of concentrically braced trapezoidal corrugated steel shear panels،Proceedings of the ۱۲th National Congress on Civil Engineering،Tabriz،۲۰۲۰.
7. Vahid Amiri , Karim Abedi , Arash Akbari Hamed،Numerical investigation into the behavior of corrugated steel plate shear walls retrofitted by CFRP Layers, considering the de-bonding between steel and CFRP،Proceedings of the ۱۱th National Congress on Civil Engineering،Shiraz،۲۰۱۹.
8. Ramin Barzegar Asl , Arash Akbari Hamed , Hamed Rahimzadeh،Numerical study on Auxetic (Hexagonal Re-entrant) steel plate shear walls،Proceedings of the ۱۱th International Congress on Civil Engineering،Tehran،۲۰۱۸.
9. Somayeh Rezaei , Arash Akbari Hamed , Mohammad Charkhtab Basim،Seismic performance evaluation of energy dissipative columns as new steel dampers،Proceedings of the ۹th National and

۳rd International Conference on Steel and Structure،Tehran،۲۰۱۸.
10. Mohammad Charkhtab Basim و Arash Akbari Hamed،Probabilistic assessment of life-cycle costs of structures using endurance-time method،Proceedings of the ۱۰th National Congress on Civil Engineering،Tehran،۲۰۱۷.
11. Hesam Bafandeh Nobari و Arash Akbari Hamed،Comparative study on the cyclic behavior of the RBS and HBS I-shaped beam sections،Proceedings of the ۳rd International Conference on Structural Engineering،Tehran،۲۰۱۷.
12. Arash Akbari Hamed و Mohammad Charkhtab Basim،Comparative study on seismic behavior of hybrid and simple all-steel buckling restrained braces،Proceedings of the ۱st National Conference on Applied Research in Structural Engineering and Construction Management،Tehran،۲۰۱۶.
13. Arash Akbari Hamed،Modeling, Experimental and Parametric Study and Determination of the Seismic Performance Factors of Braced Steel Shear Panels،Proceedings of the ۲nd International Conference on New Research Achievements in Civil Engineering, Architecture and Urban Management،Tehran،۲۰۱۶.
14. Arash Akbari Hamed،Analysis and Plastic Design of Braced Steel Shear Panels for Achievement of Predetermined Collapse Mechanism،Proceedings of the ۲nd International Conference on New Research Achievements in Civil Engineering, Architecture and Urban Management،Tehran،۲۰۱۶.
15. Mohammad Reza Chenaghlou ,& Arash Akbari Hamed ,Connection classification for a space structure jointing system ,EUROSTEEL 2017 ,Copenhagen ,2017.
16. Hesam Bafandeh Nobari ,& Arash Akbari Hamed ,On the seismic behavior of the HBS and RBS moment connections ,EUROSTEEL 2017 ,Copenhagen ,2017.
17. Abdolrahim Jalali ,& Arash Akbari Hamed ,Investigation of vector-valued and advanced scalar intensity measures for estimation of structural responses under near fault ground motions ,Proceedings of the 1st International Conference on Urban Construction in the Vicinity of Active Faults ,Tabriz ,2011.

Papers in Journals

1. Vahid Amiri , Arash Akbari Hamed , Karim Abedi،Investigation into the effect of residual stresses on the performance of corrugated trapezoidal steel shear panels،Journal of Civil and Environmental Engineering،۲۰۲۳.
2. Mahsa Saeidzadeh , Mohammad Reza Chenaghlou , Arash Akbari Hamed،Evaluation of the structural behavior of a novel self-centering beam-column connection with friction damper in comparison to existing connections،Journal of Civil and Environmental Engineering،۲۰۲۲.
3. Arash Akbari Hamed و Hesam Bafandeh Nobari،Numerical Investigation on Seismic Behavior of Novel Moment Connections with Heat-Treated Beam Sections،Journal of Civil and Environmental Engineering،۲۰۲۱.
4. Abdolrahim Jalali و Arash Akbari Hamed،Study of precision for structural responses of buildings using advanced scalar intensity measures،Journal of Civil and Environmental Engineering،۲۰۱۳.
5. Mahsa Saeidzadeh, Hesam Bafandeh Nobari and Arash Akbari Hamed,Numerical parametric study on structural performance and design of self-centering eccentrically braced frames with novel SC-PC-FD connections,Iranian Journal of Science and Technology- Transactions of Civil Engineering,2025.
6. Hamid Reza Hassani Ghoraba , Arash Akbari Hamed , Reza Mahboobi Esfanjani,Numerical and experimental investigation on a novel seismic base-isolator made by the magnetic levitation technology,Asian Journal of Civil Engineering,2025.
7. Arash Akbari Hamed , Somayyeh Dezhban , Mahsa Saeidzadeh,Reducing the flexural stiffness requirement for boundary elements in steel plate shear walls using the topology optimization method,Iranian Journal of Science and Technology- Transactions of Civil Engineering,2024.
8. Hesam Bafandeh Nobari, Arash Akbari Hamed & Mahsa Saeidzadeh,Experimental Study on the Cyclic Performance of Novel Seismic Base Isolators Made by Scrap Tire Rubber Pads,Iranian Journal

of Science and Technology, Transactions of Civil Engineering,2024.
9. Arash Akbari Hamed , Mahsa Saeidzadeh , Hesam Bafandeh Nobari , Farid Ostadhasanzadeh Maleky,Sustainable and economic base isolators made by scrap tires for low-rise buildings in developing countries,Iranian Journal of Science and Technology- Transactions of Civil Engineering,2024.
10. Arash Akbari Hamed , Seyedeh Fatemeh Mortazavi , Mahsa Saeidzadeh,Evaluation of the seismic performance of structures equipped with novel multi-level TADAS dampers,Asian Journal of Civil Engineering,2023.
11. Vahid Amiri , Arash Akbari Hamed , Karim Abedi,On braced trapezoidal corrugated steel shear panels: An experimental and numerical study,Frontiers of Structural and Civil Engineering,2023.
12. Arash Akbari Hamed ,& Seyedeh Sahar Hashemi,Parametric study on the structural performance of ordinary, bamboo-shaped and triple-truss confined all-steel BRBs with circular core cross-section,Asian Journal of Civil Engineering,2023.
13. Farid Ostadhasanzdeh Maleky , Arash Akbari Hamed , Mahsa Saeidzadeh,On the Performance of Steel Buildings with Skewed Beams against Progressive Collapse,Engineering Proceedings,2023.
14. Mahsa Saeidzadeh , Mohammad Reza Chenaghlou , Arash Akbari Hamed,Mechanical model and seismic performance of frames with a self-centring connection,Proceedings of the Institution of Civil Engineers-Structures and Buildings,2023.
15. Arash Akbari Hamed , Mahsa Saeidzadeh , Mohammad Reza Chenaghlou,Comparison of Two Novel Heat-Treated Beam Section and Self-Centering Pinned Connection with Friction Damper Steel Beam–Column Connections,Engineering Proceedings,2023.
16. Arash Akbari Hamed , Mahsa Saeidzadeh , Hamid Reza Hassani Ghoraba , Farid Ostadhasanzadeh Maleky,Novel Scrap Tire Rubber Pad with Steel Rods and Maglev Seismic Isolators,Engineering Proceedings,2023.
17. Mohmmad Charkhtab Basim , Farzaneh Pourreza , Meysam Mousazadeh , Arash Akbari Hamed,The effects of modeling uncertainties on the residual drift of steel structures under mainshock-aftershock sequences,Structures,2022.
18. Mahsa Saeidzadeh , Mohammad Reza Chenaghlou , Arash Akbari Hamed,Experimental and numerical study on the performance of a novel self-centering beam-column connection equipped with friction dampers,Journal of Building Engineering,2022.
19. Arash Akbari Hamed ,& Ayda Samadi_ Mohammad Charkhtab Basim,Topology and shape optimization of steel plate shear walls for enhancement the amount of absorbed energy,Journal of Building Engineering,2022.
20. Arash Akbari Hamed , Ramin Barzegar Asl , Hamed Rahimzadeh,Experimental and numerical study on the structural performance of auxetic-shaped, ring-shaped and unstiffened steel plate shear walls,Journal of Building Engineering,2021.
21. Arash Akbari Hamed ,& Mohammad Charkhtab Basim,Experimental-numerical study on weakened HSS-to-HSS connections using HBS and RBS approaches,Structures,2020.
22. Somayeh Rezaei , Arash Akbari Hamed , Mohammad Charkhtab Basim,Seismic performance evaluation of steel structures equipped with dissipative columns,Journal of Building Engineering,2020.
23. Arash Akbari Hamed ,& Massood Mofid,Plastic design of eccentrically braced frames with shear panels,Proceedings of the Institution of Civil Engineers-Structures and Buildings,2017.
24. Arash Akbari Hamed ,& Massood Mofid,Parametric study and computation of seismic performance factors of braced shear panels,Scientia Iranica,2016.
25. Arash Akbari Hamed ,& Massood Mofid,On the equivalent simple models of braced steel shear panels,Proceedings of the Institution of Civil Engineers-Structures and Buildings,2015.
26. Arash Akbari Hamed ,& Massood Mofid,On the plastic analysis of concentrically braced frames with shear panel, obtaining predetermined collapse mechanism,The Structural Design of Tall and Special Buildings,2015.
27. Arash Akbari Hamed ,& Massood Mofid,On the experimental and numerical study of braced steel

shear panels,The Structural Design of Tall and Special Buildings,2015.