

# DARIO DE DOMENICO

## LIST OF SCIENTIFIC PUBLICATIONS

### Articles in peer-reviewed international journals (Journal)

- [J1] Wu M., Zhao Z., De Domenico D., Zhang R., Xie M. Butterfly-shaped damping tuned viscous mass damper for highly enhanced damping and acceleration control. *Journal of Building Engineering* (Elsevier), ISSN: 2352-7102, DOI: 10.1016/j.jobe.2025.113521.
- [J2] Sadeghi-Movahhed A., De Domenico D., Mashayekhi M., Majdi A. (2025). Optimal damping of isolated tall buildings accounting for structural and nonstructural damage. *Journal of Building Engineering* (Elsevier), vol. 105, pp. 112497, ISSN: 2352-7102, DOI: 10.1016/j.jobe.2025.112497.
- [J3] De Domenico D., Mazzeo M., Messina D., Santoro R., Recupero A. (2025). *Structural health assessment of concrete half-joint bridges: From load testing to FEM simulation accounting for material uncertainties*. *Structure and Infrastructure Engineering* (Taylor & Francis Ltd.), vol. xxx, pp. xxx, ISSN: 15732479, DOI: 15732479.2025.2468199.
- [J4] Majdi A., Sadeghi-Movahhed A., Farsangi E.N., Mashayekhi M., Almujiabah H., De Domenico D. (2025). *Application of the Modified Endurance Time Method for Predicting Seismic Response of Base-Isolated Structures under Pounding*. *Journal of Earthquake and Tsunami* (World Scientific), vol. 19, no. 3, pp. 2450037, ISSN: 1793-4311, DOI: 10.1142/S1793431124500374.
- [J5] De Domenico D., Bernardo L.F.A. (2025), *Editorial for "Mechanical Behavior of Concrete Materials and Structures: Experimental Evidence and Analytical Models (Volume II)"*. *Materials* (MDPI), vol. 18(3), pp. 584, ISSN: 1996-1944, DOI: 10.3390/ma18030584.
- [J6] Abood E.A., Al-Kamal M.K., Muhodir S.H., Al-Abdaly N.M., Bernardo L.F.A., De Domenico D., Imran H. (2025). *Coupling Beams' Shear Capacity Prediction by Hybrid Support Vector Regression and Particle Swarm Optimization*. *Buildings* (MDPI), vol. 15(2), pp. 191, ISSN: 2075-5309, DOI: 10.3390/buildings15020191.
- [J7] De Domenico D., Spinella N., Messina D., Mazzeo M., Recupero A. (xxx). *Structural behavior of deteriorated Gerber half-joints in highway overpasses by nonlinear finite element analysis combined with a simplified uniform-corrosion model*. *Structural Concrete* (Wiley), vol. xxx, pp. xxx, ISSN: 1751-7648, DOI: 10.1002/suco.202400556.
- [J8] Zeng Q., Quaranta G., De Domenico D., Monti G. (2025). *Variable-Angle Spatial Truss Model for Analytical Biaxial Shear Capacity Prediction of Reinforced Concrete Members with Transverse Reinforcement*. *Journal of Structural Engineering* (ASCE Library), vol. 151(1), pp. 04024201, ISSN: 0733-9445, DOI: 10.1061/JSENDH.STENG-13940.
- [J9] Zeng Q., De Domenico D., Quaranta G., Monti G. (2024). *Experimental investigation on the cyclic behaviour of full-scale reinforced concrete columns under biaxial shear loading*. *Structures* (Elsevier), vol. 70, pp. 107747, ISSN: 2352-0124, DOI: 10.1016/j.istruc.2024.107747.
- [J10] Abood E.A., Abdallah M.H., Alsaadi M., Imran H., Bernardo L.F.A., De Domenico D., Henedy S.N. (2024). *Machine Learning-Based Prediction Models for Punching Shear Strength of Fiber-Reinforced Polymer Reinforced Concrete Slabs Using a Gradient-Boosted Regression Tree*. *Materials* (MDPI), vol. 17, pp. 3964, ISSN: 1996-1944, DOI: 10.3390/ma17163964.
- [J11] Ribeiro T., Bernardo L., Carrazedo R., De Domenico D. (2024). *Topology optimisation of steel connections under compression assisted by physical and geometrical nonlinear finite element analysis and its application to an industrial case study*. *Structural and Multidisciplinary Optimazion* (Springer), vol. 67 (88), article no. 88, DOI: 10.1007/s00158-024-03799-7.
- [J12] Sadeghi-Movahhed A., De Domenico D., Majdi A. (2024). *Structural flexibility impact on pounding severity and seismic performance of adjacent isolated buildings*. *Soil Dynamics and Earthquake Engineering* (Elsevier), vol. 181, pp. 108667, ISSN: 0267-7261, DOI: 10.1016/j.soildyn.2024.108667.
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- [J15] Mazzeo M., De Domenico D., Quaranta G., Santoro R. (2024). *An efficient automatic modal identification method based on free vibration response and enhanced Empirical Fourier Decomposition technique*. *Engineering Structures* (Elsevier), vol. 298, pp. 117046, ISSN: 0141-0296, DOI: 10.1016/j.engstruct.2023.117046.
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- [J20] Qiao H., Huang P., De Domenico D. (2023). *Automatic optimal design of passive vibration control devices for buildings using two-level evolutionary algorithm*. *Journal of Building Engineering* (Elsevier), vol. 72, pp. 106684, ISSN: 2352-7102, DOI: 10.1016/j.jobe.2023.106684.
- [J21] Chen X., De Domenico D., Chunxiang, L. (2023). *Seismic resilient design of rocking tall bridge piers using inerter-based systems*. *Engineering Structures* (Elsevier), vol. 281, pp. 115819, ISSN: 0141-0296, DOI: 10.1016/j.engstruct.2023.115819.
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