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Nota di contenuto	<p>1. Identification of Modal Parameters of Multi-storey Timber Buildings from Ambient Vibration Tests -- 2. Graphical Modeling of the Lower-Limb Joint Motion from the Dynamic Floor Responses under Footstep Forces -- 3. Vibration Testing of an All-Steel Modular Floor Assembly -- 4. Cable-Based Adaptive Restoring Force Device for Horizontal Seismic Isolation of Acceleration-Sensitive Equipment -- 5. Operational Modal Analysis of Doria Castle's Tower in Vernazza -- 6. Influence of the Ground Reaction Force Prediction on the Human Structure Interaction Phenomenon: An Application of a Bipedal Model -- 7. Investigation of the Impact of Slider Mass Stiffness on the Behavior of the Variable Inertia Rotational Mechanism for Structural Vibration Mitigation -- 8. A Comprehensive Dataset of a Population of Experimental Bridges under Changing Environmental Conditions for PBSHM -- 9. Finite Element Modeling and Modal Testing of a Wind Turbine Lattice Tower Component with Interference Pin Connections -- 10. Expanding IE Model Applications with Real-World Case Studies of Bridge Structures -- 11. Another Brick in the Wall: The Importance of Partitions in Structural Dynamic Modelling -- 12. Performance Evaluation of Light Pole Structures through SHM -- 13. Preliminary Design and Analysis of a Smart Building Structural Dynamics Sensing System -- 14. Algorithm Development to Detect Vortex Shedding in Tubular Pole Structures -- 15. Semi-active Control of a Banded Rotary Friction Device -- 16. Enhancing Vision-based Structural Displacement Measurement of Civil Structures through Optical Multiplexing -- 17. Structural Vibration Control Performance of Semi-Active Cam-Lever Friction Devices Under Varying Friction Surfaces.</p>
Sommario/riassunto	<p>Dynamics of Civil Structures, Volume 2: Proceedings of the 42nd IMAC, A Conference and Exposition on Structural Dynamics, 2024, the second volume of ten from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures, including papers on: Structural Vibration Dynamics of Bridges, Buildings, and Infrastructure Systems Innovative Sensors and Measurement Techniques for Structural Applications Structural Control and Vibration Mitigation Human Induced Vibrations and Human-Structure Interaction Modal Identification of Structural Systems Human Health Monitoring Using Structural Sensing Field Monitoring of Vibrations.</p>