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Nota di contenuto	1. Improving an Experimental Test Bed with Time-varying Parameters for Developing High-rate Structural Health Monitoring Methods -- 2. Application of Electro-active Materials Toward Health Monitoring of Structures: Electrical Properties of Smart Aggregates -- 3. Output-Only Estimation of Amplitude Dependent Friction-Induced Damping -- 4. Modeling Human-structure Interaction using Control Models When Bobbing on a Flexible Structure -- 5. Identification and Monitoring of the Material Properties of a Complex Shaped Part using a FEMU-3DVF Method: Application to Wooden Rhombicuboctahedron -- 6. Modal Tracking on a Building with a Reduced Number of Sensors System -- 7. Bayesian Damage Identification using Strain Data From Lock Gates -- 8.

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Sommario/riassunto

Dynamics of Civil Structures, Volume 2: Proceedings of the 37th IMAC, A Conference and Exposition on Structural Dynamics, 2019, the second volume of eight 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 Humans & Structures Innovative Measurement for Structural Applications Smart Structures and Automation Modal Identification of Structural Systems Bridges and Novel Vibration Analysis Sensors and Control .