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Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Determination of modal properties of an irregular twenty-story concrete shear wall building -- Effect of foundation rocking on the dynamic characteristics of a 30-story concrete shear wall building -- Ambient vibration testing of a 4-storey parking garage -- Blind source separation: a generalized modal identification tool for civil structures -- Developments with motion magnification for structural modal identification through camera video -- Interactive platform to include human-Structure interaction effects in the analysis of footbridges -- Comparing closed loop control models and mass spring damper models for human structure interaction problems -- Stochastic load models and footbridge response -- pedestrian induced lateral vibrations with emphasis on modal energy transfer -- Implications of

interaction between humans and structures -- A correlation analysis regarding the temperature effect for a suspension bridge -- Total load effects of portal frame bridges in high-speed railway lines -- Monitoring wind velocities and dynamic response of the hardanger bridge -- Modal analysis of a floating bridge without side-mooring -- Investigation of a novel pseudo ambient vibration testing approach -- Ambient vibration testing of historic steel-composite bridge, the e torroja bridge for structural identification and finite element model updating -- Tuning of finite element models of multi-girder composite structures -- A bayesian state space approach for damage detection and classification -- Iterative spatial compressive sensing strategy for structural damage diagnosis as a big data problem -- Numerical enhancement of nonlinear model tracking for health monitoring -- A material basis frame approach for global deflection reconstruction of rod like structures from strain measurements -- Influence of prestressing strand damage on modal parameters of a hybrid composite bridge beam -- Data-driven structural damage identification using dit -- Modal identification of superconducting magnetic levitating bogie -- Uplift monitoring for dynamic assessment of electric railway contact lines -- Finite element model updating using an evolutionary Markov chain Monte Carlo algorithm -- Formal analysis of critical infrastructures by structural identification using constraint programming paradigm -- Model updating of a nine-story concrete core wall building -- Numerical study and experimental validation of a method for model updating of boundary conditions in beams -- Coordination of groups jumping to popular music beats -- Effects of people occupancy on the modal properties of a stadium grandstand -- Serviceability assessment of two different stadium grandstand during different events -- Smd model parameters of pedestrians for vertical human-structure interaction -- Identification and modelling of vertical human-structure interaction -- Identification of stiffness damping and biological force of smd model for human walking -- Producing simulated time data for operational modal analysis -- Evaluation of damping using frequency domain operational modal analysis techniques -- An example of correlation matrix based mode shape expansion in oma -- Experimental vs operational modal analysis a flyover test case -- Operational modal analysis in the presence of harmonic excitations -- Operational modal analysis of a nine story concrete core wall building -- Numerical study of reduction in vibrations induced by water pipe system -- Seismic performance assessment of steel frames upgraded with self centering viscous dampers -- Performance analysis of cables with attached tuned inerter dampers -- Numerical investigation of vibration reduction in multi storey lightweight buildings -- Dynamic compensators for floor vibration control -- Active tuned liquid column damper in structural control -- Semiactive vibration control in a three story building like structure using a magnetorheological damper -- Balancing testing and simulation for design of a research facility -- Certain uncertainties -- Predicting andmitigating ground borne vibration transmission to elevated floor structures -- Mitigation of wind induced vibration of the pool deck fence of a condominium -- Isolating a scanning electron microscope from chiller unit vibrations -- Dynamic characteristics of double layer beam with respect to different boundary conditions -- Evaluation of an automatic selection methodology of model parameters from stability diagrams on a damage building -- Original expression of tension of a cable.

Sommario/riassunto

Dynamics of Civil Structures, Volume 2. Proceedings of the 33rd IMAC, , A Conference and Exposition on Balancing Simulation and Testing,

2015, 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 Structural Dynamics, including papers on: Modal Parameter Identification Dynamic Testing of Civil Structures Human Induced Vibrations of Civil Structures Correlation & Updating Operational Modal Analysis Damage Detection of Structures Bridge Structures Damage Detection Models Experimental Techniques for Civil Structures.