1. Record Nr.   UNINA9910254342003321

   Titolo   Structural Health Monitoring & Damage Detection, Volume 7 :
                        Proceedings of the 35th IMAC, A Conference and Exposition on
                        Structural Dynamics 2017 / / edited by Christopher Niezrecki

   Pubbl/distr/stampa   Cham : , : Springer International Publishing : , : Imprint : Springer, ,
                        2017

   ISBN   3-319-54109-9

   Edizione   [1st ed. 2017.]

   Descrizione fisica   1 online resource (VII, 97 p. 84 illus., 67 illus. in color.)

   Collana   Conference Proceedings of the Society for Experimental Mechanics
                        Series, , 2191-5652

   Disciplina   624.17

   Soggetti   Buildings - Repair and reconstruction
                        Buildings - Maintenance
                        Acoustical engineering
                        Mechanics, Applied
                        Solids
                        Building Repair and Maintenance
                        Engineering Acoustics
                        Solid Mechanics

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di bibliografia   Includes bibliographical references at the end of each chapters.

   Nota di contenuto   Chapter 1.Exploiting Spatial Sparsity in Vibration-based Damage
                        Detection -- Chapter 2.Multi-Source Sensing and Analysis for Machine-
                        Array Condition Monitoring -- Chapter 3.Wavelet Transform-Based
                        Damage Detection in Reinforced Concrete Using an Air-Coupled
                        Impact-Echo Method -- Chapter 4. Damage Detection Based on Strain
                        Transmissibility for Beam Structure by Using Distributed Fiber Optics --
                        Chapter 5.Modal Parameters Estimation of an Offshore Wind Turbine
                        Using Measured Acceleration Signals from the Drive Train -- Chapter 6.
                        Structural Damage Detection in Real-Time: Implementation of 1D
                        Convolutional Neural Networks for SHM Applications -- Chapter 7.
                        Monitoring the Health of a Cantilever Beam Using Nonlinear Modal
                        Tracking -- Chapter 8.Using Modal Parameters for Structural Health
                        Monitoring -- Chapter 9.Current Challenges with BIGDATA Analytics in

Structural Health Monitoring -- Chapter 10.Detection of Cracks in Beams Using Treed Gaussian Processes.

Sommario/riassunto	Structural Health Monitoring & Damage Detection, Volume 7: Proceedings of the 35th IMAC, A Conference and Exposition on Structural Dynamics, 2017, the seventh 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 Health Monitoring & Damage Detection, including papers on: Structural Health Monitoring Damage Detection System Identification Active Controls.