1. Record Nr. UNINA9910254331203321 Shock & Vibration, Aircraft/Aerospace, Energy Harvesting, Acoustics & Titolo Optics, Volume 9: Proceedings of the 35th IMAC, A Conference and Exposition on Structural Dynamics 2017 / / edited by Julie M. Harvie, Javad Bagersad Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2017 **ISBN** 3-319-54735-6 Edizione [1st ed. 2017.] Descrizione fisica 1 online resource (IX, 341 p. 285 illus., 250 illus. in color.) Collana Conference Proceedings of the Society for Experimental Mechanics Series, , 2191-5644 Disciplina 620 Soggetti Vibration Dynamical systems **Dynamics** Aerospace engineering Astronautics Acoustical engineering **Energy harvesting** Vibration, Dynamical Systems, Control Aerospace Technology and Astronautics **Engineering Acoustics Energy Harvesting** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references. Nota di contenuto Chapter 1. Scaling up of the Impedance-Matched Multi-Axis Test (IMMAT) Technique -- Chapter 2.6-DOF Shaker Test Input Derivation from Field Test -- Chapter 3. Frequency Based Spatial Damping Identification – Theoretical and Experimental Comparison -- Chapter 4. Controlability of Aerospace Static Mechanical Loading Coupled with Dynamic Forces -- Chapter 5.Identification of Full-field Dynamic Loads on Structures Using Computer Vision and Unsupervised Machine Learning -- Chapter 6.Research of Under-Sampling Technique for Digital Image Correlation in Vibration Measurement -- Chapter 7.

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Shock & Vibration, Aircraft/Aerospace and Energy Harvesting, Volume 9: Proceedings of the 35th IMAC, A Conference and Exposition on Structural Dynamics, 2017, the ninth 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 Shock & Vibration, Aircraft/Aerospace and Energy Harvesting including papers on: Shock & Vibration Testing Aircraft/Aerospace Applications Optical Techniques: Digital Image Correlation Vibration Suppression & Control Damage Detection Energy Harvesting.