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Nota di contenuto	Chapter1: A Step Towards Testing of Foot Prostheses Using Real-Time Substructuring (RTS) -- Chapter2: Augmented Reality for Interactive Robot Control -- Chapter3: Optimizing Logarithmic Decrement Damping Estimation via Uncertainty Analysis -- Chapter4: A Simplified Current Blocking Piezoelectric Shunt Circuit for Multimodal Vibration Mitigation -- Chapter5: Using the SEREP Idea for the Projection of Modal Coordinates to Different Finite Element Meshes -- Chapter6: Identification System for Structural Health Monitoring in Buildings -- Chapter7: Experimental and Numerical Study of the Second Order Moment of the First Passage Time of a Steel Strip Subjected to Forced and Parametric Excitations -- Chapter8: Three-Dimensional Mechanical Metamaterial for Vibration Suppression -- Chapter9: Model Reduction

of Self-repeating Structures and Applications to Metamaterial Modeling -- Chapter10: Imager-based Techniques for Analyzing Metallic Melt Pools for Additive Manufacturing -- Chapter11: Full-field Mode Shape Analysis, Alignment and Averaging Across Measurements -- Chapter12: Investigating Engineering Data by Probabilistic Measures -- Chapter13: Multi-Input Multi-Output Swept Sine Control: A Steepest Descent Solution for a Challenging Problem -- Chapter14: Study on Developing Micro-scale Artificial Hair Cells -- Chapter15: Dynamic Characteristic Identification -- Chapter16: One Year Monitoring of a Wind Turbine Foundations -- Chapter17: On the Application of Domain Adaptation in SHM.

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#### Sommario/riassunto

Special Topics in Structural Dynamics & Experimental Techniques, Volume 5: Proceedings of the 37th IMAC, A Conference and Exposition on Structural Dynamics, 2019, the fifth 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 Structural Dynamics, including papers on: Analytical Methods Emerging Technologies for Structural Dynamics Engineering Extremes Experimental Techniques Finite Element Techniques General Topics.

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