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Data Science in Engineering, Volume 9

Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics 2022

Editors:
Ramin Madarshahian, The Society for Experimental Mechanics, Bethel, USA
Francois Hemez, The Society for Experimental Mechanics, Bethel

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Description:
Data Science in Engineering, Volume 9: Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics, 2022, the nineth volume of nine 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 Data Science in Engineering, including papers on:

- Novel Data-driven Analysis Methods
- Deep Learning Gaussian Process Analysis
- Real-time Video-based Analysis
- Applications to Nonlinear Dynamics and Damage Detection
- High-rate Structural Monitoring and Prognostics

Keywords: data science Structural Dynamics Dynamic Substructures Structural Engineering Conference Proceedings Civil Structures Model Validation