

Preface

Linking Models and Experiments represents one of six clusters of technical papers presented at the 29th IMAC, A Conference and Exposition on Structural Dynamics, 2011 organized by the Society for Experimental Mechanics, and held in Jacksonville, Florida, January 31 - February 3, 2011. The full proceedings also include volumes on: Advanced Aerospace Applications, Modal Analysis, Civil Engineering, Rotating Machinery, Structural Health Monitoring, Shock and Vibration; and Sensors, Instrumentation, and Special Topics.

Each collection presents early findings from experimental and computational investigations on an important area within structural dynamics. The current volume on *Linking Models and Experiments* includes studies on Finite Element Techniques, Model Updating, Experimental Dynamics Substructuring, Model Validation, and Uncertainty Quantification.

Modeling and simulation are major tools for today's engineers. It is, therefore, important that models and simulations be critically examined and modified to reflect real-world results. This grouping brings together researchers and engineers interested in this area. It provides a forum to facilitate technical interaction and exchange.

The organizers would like to thank the authors, presenters, session organizers and session chairs for their participation in this track.

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