

# Preface

*Dynamics of Civil Structures* represents one of ten volumes of technical papers presented at the 35th IMAC, A Conference and Exposition on Structural Dynamics, organized by the Society for Experimental Mechanics, and held in Garden Grove, California, January 30–February 2, 2017. The full proceedings also include volumes on *Nonlinear Dynamics*; *Model Validation and Uncertainty Quantification*; *Dynamics of Coupled Structures*; *Sensors and Instrumentation*; *Special Topics in Structural Dynamics*; *Structural Health Monitoring and Damage Detection*; *Rotating Machinery*; *Hybrid Test Methods*; *Vibro-Acoustics & Laser Vibrometry*; *Shock & Vibration*; *Aircraft/Aerospace and Energy Harvesting*; and *Topics in Modal Analysis & Testing*.

Each collection presents early findings from analytical, experimental, and computational investigations on an important area within structural dynamics. *Dynamics of Civil Structures* is one of these areas which cover topics of interest of several disciplines in engineering and science.

The Dynamics of Civil Structures Technical Division serves as a primary focal point within the SEM umbrella for technical activities devoted to civil structure analysis, testing, monitoring, and assessment. This volume covers a variety of topics including damage identification, human-structure interaction, hybrid testing, vibration control, model updating, modal analysis of in-service structures, sensing and measurements of structural systems, and bridge dynamics. Papers cover testing and analysis of all kinds of civil engineering structures such as buildings, bridges, stadiums, dams, and others.

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

Columbia, SC, USA  
Bethlehem, PA, USA

Juan Caicedo  
Shamim Pakzad

Dynamics of Civil Structures, Volume 2

Proceedings of the 35th IMAC, A Conference and  
Exposition on Structural Dynamics 2017

Juan, C.; Pakzad, S. (Eds.)

2017, IX, 355 p. 294 illus., 242 illus. in color., Hardcover

ISBN: 978-3-319-54776-3