Construction Research Congress 2018

Safety and Disaster Management

EDITED BY



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Chao Wang, Ph.D. Christofer Harper, Ph.D. Yongcheol Lee, Ph.D. Rebecca Harris

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CONSTRUCTION

CONSTRUCTION RESEARCH CONGRESS 2018

Safety and Disaster Management

SELECTED PAPERS FROM THE CONSTRUCTION RESEARCH CONGRESS 2018

April 2–4, 2018 New Orleans, Louisiana

SPONSORED BY

Construction Research Council

Construction Institute of the American Society of Civil Engineers

> EDITED BY Chao Wang, Ph.D. Christofer Harper, Ph.D. Yongcheol Lee, Ph.D. Rebecca Harris Charles Berryman, Ph.D.





Published by the American Society of Civil Engineers

Published by American Society of Civil Engineers 1801 Alexander Bell Drive Reston, Virginia, 20191-4382 www.asce.org/publications | ascelibrary.org

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Errata: Errata, if any, can be found at https://doi.org/10.1061/9780784481288

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Preface

On behalf of the Construction Institute of the American Society of Civil Engineers (ASCE), the Louisiana State University and the organizing committee, we welcome you to the 2018 CRC and to the city of New Orleans, Louisiana. The Construction Research Congress is the prime international conference in the area of construction engineering and management. This conference is organized by the Construction Research Council of the Construction Institute of ASCE. The 2018 conference was organized and hosted by the Bert S. Turner Department of Construction Management at the Louisiana State University.

The theme for this conference is "Building Community Partnerships". Construction requires teams of individuals to collaborate and work together to focus on the success of a project. Creating a community of partners allows for synergy to proliferate throughout the team, the project, as well as the surrounding communities. Construction management necessitates partnerships and collaboration due to the globalization of the industry and the increasing complexities and risks that need to be addressed.

New Orleans, located in southeastern Louisiana, is a major United States port and the largest city and metropolitan area in the state of Louisiana with easy access to international airport and multiple forms of ground transportation. Between the festivals, museums, and nightlife, there is always something to do in the Cresent City. New Orleans always has an event going on just blocks from wherever you are. This city is also full of history from the St. Louis Cathedral which has stood the test of time for centuries to the buildings that still haven't re-opened from Hurricane Katrina. Whatever you are looking for, New Orleans has it, not to mention, the food here is better than anywhere else.

The Conference Proceedings contain 373 peer-reviewed papers, which are the final product from 733 abstracts submitted, 586 abstracts accepted, and 418 full papers submitted. All papers went through a two-step peer review process, and were divided into five books with the following five research focus areas:

Construction Information Technology

- Construction Project Management
- Safety and Disaster Management
- Infrastructure and Facility Management
- Sustainable Design/Construction and Education

On behalf of the Construction Institute, the American Society of Civil Engineers, Louisiana State University and the 2018 CRC Organizing Committee we welcome you to New Orleans and wish you leave with a wonderful experience and memory of New Orleans and the 2018 CRC.

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Charles Berryman, Ph.D. Conference Chair Louisiana State University

Christofer Harper, Ph.D. Technical Committee Co-Chair Louisiana State University

Chao Wang, Ph.D. Technical Committee Co-Chair Louisiana State University

Yongcheol Lee, Ph.D. Technical Committee Co-Chair Louisiana State University

Acknowledgments

The members of the Organizing Committee and Technical Committee are recognized for their dedication, support and contributions for the success of the 2018 Construction Research Congress. In addition, student collaborators are recognized for their dedication and support.

Conference Chair: Charles Berryman, Ph.D., Louisiana State University, (cberryman@lsumail.net)

Technical Committee Co-Chair: Christofer Harper, Ph.D., Louisiana State University, (charper@lsu.edu)

Technical Committee Co-Chair: Chao Wang, Ph.D., Louisiana State University, (chaowang@lsu.edu)

Technical Committee Co-Chair: Yongcheol Lee, Ph.D., Louisiana State University, (yclee@lsu.edu)

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Recruiting/Mentoring/ Student Retaining and Prospective and Junior Faculty Panel Chair:

Rodolfo Valdes-Vasquez - Rodolfo.Valdes_Vasquez@colostate.edu, Colorado State University

Ph.D. Student Poster Session Chair

Youngjib Ham, yham@tamu.edu, Texas A&M University Kevin Han, kevin_han@ncsu.edu, North Carolina State University

The Technical Committee acknowledges the support of the technical committee members who helped in the peer-review process of the articles that are part of these proceedings.

Technical Committee Members

Moatassem Abdallah	Fei Dai
Simaan AbouRizk	Jesus de la Garza
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Sanaz Saeidi Tianyi Zhang Chanachok Chokwitthaya

Conference Registration and Payment Administrator:

Monica Derozan Alex Calvin

Ally Rennhoff Casey J. Bennett

Organizing Committee:

Charles Berryman – Louisiana State University Marwa Hassan – Louisiana State University Rebecca Harris – Louisiana State University Becky Labatut – Louisiana State University JoAnn Landry – Louisiana State University Samantha Baldridge – Louisiana State University Elizabeth Poret – Louisiana State University

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