An NSF-Funded Webinar on

*Safe Human-Robot Interaction in Construction*

December 1, 2023, 11:00 - 14:00 ET

Organized by

Rinker School of Construction Management at UF
National Institute for Occupational Safety and Health (NIOSH)

In an era marked by the rapid integration of robotics and automation into the construction industry, the paramount concern is ensuring the safety of human-robot interaction. As these cutting-edge technologies find their place alongside human workers on construction sites, there is an urgent need to prioritize safety above all else.

This webinar brings together a diverse group of experts to facilitate a dynamic exchange of insights and recommendations to foster safe and productive human-robot coexistence within construction work environments.

**Organizing Team:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Affiliation</th>
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<tbody>
<tr>
<td>Jiun-Yao Cheng</td>
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<td>Dr. Idris Jeelani</td>
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<td>Dr. Masoud Gheisari</td>
<td>Associate Prof. @ UF</td>
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<td>Dr. Jim Harris</td>
<td>Chief @ NIOSH</td>
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**Registration Link!**

Any inquiries? Contact Jiun-Yao Cheng at chengjiunyao@ufl.edu

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National Robotics Initiative 2.0: Ubiquitous Collaborative Robots (NRI-2.0)
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Session 1: Industry and Government Perspective

11:00 ET Welcome and Introduction

11:15 ET Session 1: Industry and Government Perspective
Scott Earnest, Ph.D., P.E., C.S.P.
Associate Director for Construction @ NIOSH
Keynote Presentation: The NIOSH Construction Program and Robotics

11:30 ET Maren Jolliffe Roush
Manager of Robotics Standards Development @ A3 - Association for Advancing Automation
Presentation: Safety Standards for Robotics

11:45 ET Henning Roedel, Ph.D.
Robotics Lead @ DPR Construction
Presentation: Application of Field Robotics on Construction Sites

12:00 ET Jacob Carr, Ph.D.
Program Coordinator of Center for Occupational Robotics Research @ NIOSH
Presentation: NIOSH Research on Safe Robot Use in Construction and Other Sectors

12:15 ET Roundtable Discussion

Session 2: Academia’s Perspective

12:30 ET Session 2: Academia’s Perspective
Alexandra Medina-Borja, Ph.D.
Program Director of Directorate for Engineering @ NSF
Keynote Presentation: Human-Robot Interaction Research: NSF Funding Landscape in the Construction Context

12:45 ET Burcin Becerik-Gerber, Ph.D.
Professor of Civil Engineering and Department Chair @ University of Southern California
Presentation: Demolishing Barriers for Technology-enabled Construction Work through Immersive Virtual Learning and Remote Operations.

13:00 ET Boyi Hu, Ph.D.
Assistant Professor of Industrial & System Engineering @ University of Florida
Presentation: Safety and Biomechanics in Occupational Human-Robot Collaboration

13:15 ET Idris Jeelani, Ph.D.
Assistant Professor of Construction Management @ University of Florida
Masoud Gheisari, Ph.D.
Assistant Professor of Construction Management @ University of Florida
Presentation: Safety Considerations for Future of Human-Robot Interaction in Construction

13:30 ET Roundtable Discussion

13:45 ET Closing Remarks