Thursday July 9, 2020 10am-12pm MT

Join Zoom Meeting https://unm.zoom.us/j/99520727481

SMILab SAVE THE DATE

The 1st

smilab
Smart Management
Infrastructure Laboratory

Smart Management of Infrastructure Webinar

(SMIWeb 2020)

Recent Technologies and Applications

Mission Statement

- Free workshop for new updates on smart structures technologies.
- The impact of these new technologies in frontier areas include, but are not limited to: wireless sensing, augmented reality, computer vision, nonlinear dynamics, point–cloud analysis, and artificial intelligence.
- The areas of implementation include design, assessment, inspection, and sensing of structures, with an emphasis on structural health monitoring.

Who Should Attend

- Infrastructure Owners
- DOT Engineers
- County and City Engineers
- Consulting Firms
- Maintenance Managers
- Bridge Inspectors
- Experimental Dynamics Scientists
- National Laboratory Scientists
- Entepreneurs and Inventors
- Researchers
- Graduate/Undergraduate Students
- Anyone interested in Interdisciplinary New Research and Technologies

One participant will be randomly selected to win a drone.
To participate, RSVP with your name by July 8th.
– Roya Nasimi: rhnasimi@unm.edu
– Jiaqi Xu: xujiaqi@unm.edu

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Agenda

10:00–10:05		Welcome and Introduction
10:05–10:25	**Fernando Moreu** Assistant Professor	**Human–Structure Interfaces with Low–Cost Efficient Wireless Intelligent Sensors (LEWIS)**
10:25–10:35	Roya Nasimi Graduate Student	Laser–Camera Integration with Unmanned Aerial Systems (UAS) for Bridge Inspections
10:35–10:45	Jiaqi Xu Post–doctoral Associate	Time Machine: Augmented Reality (AR) for Post–Earthquake Rescue
10:45–10:55	Xinxing Yuan Graduate Student	Bridge Construction Monitoring Using LIDAR for Quantified, Objective Quality Control Quality–assurance (QOQCQA)
10:55–11:05	Eric Robbins Graduate Student	An Introduction to Determining the Nonlinear Normal Modes of a Pylon–Wing Assembly Using Force Appropriation
11:05–11:15	Maimuna Hossain Graduate Student	Finite Element Analysis of Cantilever Beam with Complex Boundary Conditions
11:15–11:25	Odey Yousef Undergraduate Student	Rail Detection in Augmented Reality Using Computer Vision
11:25–11:35	Marlon Aguero Graduate Student	Design and Implementation of a Connection Between Augmented Reality and Sensors
11:35–11:55	**Rafael Fierro** Professor	**Robotics: Challenges and Opportunities**
11:55–12:00		Concluding Remarks and Drone Award Raffle

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