



**INSPIRE UTC Graduate Poster Session  
Tuesday, August 10, 2021  
1:00 p.m. – 2:00 p.m. (Central Standard Time)**

Presentation

Student Presenter

1:00	Welcome by Dr. Hongyan Ma, Assistant Professor, Civil, Architectural & Environmental Engineering, Missouri S&T and Graduate Student Poster Session Chair	
1:00-1:10	Roller Chain-Like Robot for Steel Bridge Inspection	<b>Thanh Son Nguyen</b> <i>Advisor: Dr. Hung La, University of Nevada at Reno</i>
1:10-1:20	INSPIRE UTC Bridge Inspection Field Campaign Update-2021	<b>Pu Jiao</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
1:20-1:30	Smart Sounding System for Autonomous Evaluation of Concrete Structures	<b>Deepak Kumar</b> <i>Advisor: Dr. Anil Agrawal, City College of New York</i>
1:30-1:40	Probability of Detection in Corrosion Monitoring with Fe-C Coated LPFG Sensors	<b>Ying Zhuo</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
1:40-1:50	A Human-Embodied Drone for Dexterous Aerial Manipulation	<b>Dongbin Kim</b> <i>Advisor: Dr. Paul Oh, University of Nevada-Las Vegas</i>
1:50-2:00	Gas Leakage Detection with Hyperspectral Imagery-Based Vegetation Stress Indices	<b>Pengfei Ma</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>



**INSPIRE UTC Graduate Poster Session**  
**Wednesday, August 11, 2021**  
**10:00 a.m. – 11:00 a.m. (Central Standard Time)**

Presentation

Student Presenter

- 10:00 Welcome by Dr. Hongyan Ma, Assistant Professor, Civil, Architectural & Environmental Engineering, Missouri S&T and Graduate Student Poster Session Chair
- 10:00-10:10 Drone Vision-Based Clamping Strategy for Bridge Inspection  
**Bo Shang**  
*Advisor: Dr. Genda Chen, Missouri S&T*
- 10:10-10:20 Autonomous Ultrasonic Thickness Measurement using Martlet Wireless Sensing Integrated with a Steel Climbing Mobile Robot  
**Yu Otsuki**  
*Advisor: Dr. Yang Wang, Georgia Institute of Technology*
- 10:20-10:30 Reveal Underground Defects through Impact Sounding (IS) and Impact Echo (IE)  
**Ejup Hoxha**  
*Advisor: Dr. Jizhong Xiao, City College of New York*
- 10:30-10:40 Encoding Time-series Ground Motions as Images for Convolutional Neural Networks-Based Seismic Damage Evaluation  
**Xinzhe Yuan**  
*Advisor: Dr. Genda Chen, Missouri S&T*
- 10:40-10:50 Improving 3D Metric GPR Imaging Using Robotic Data Collection and DNN-based Data Processing  
**Jinglun Feng**  
*Advisor: Dr. Jizhong Xiao, City College of New York*
- 10:50-11:00 Closing Remarks and Winners Announced by INSPIRE UTC Graduate Student Poster Session Chair Dr. Hongyan Ma, Assistant Professor, Civil, Architectural & Environmental Engineering, Missouri S&T