



**INSPIRE UTC Graduate Poster Session  
Monday, August 3, 2020  
1:00 p.m. – 2:00 p.m. (Central Standard Time)**

Presentation

Student Presenter

1:00	Welcome by Dr. Lesley Sneed, Professor, Civil, Architectural & Environmental Engineering, Missouri S&T and Graduate Student Poster Session Chair	
1:00-1:10	Integrated Sensing System of Fe-C Coated Long Period Fiber Gratings for Mass Loss Measurement of Steel Bars with Strain And Temperature Compensation	<b>Chuanrui Guo</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
1:10-1:20	Simulation Training and Control System for Bridge Inspection	<b>Rahul Dubey</b> <i>Advisor: Dr. Sushil Louis, University of Nevada at Reno</i>
1:20-1:30	UAV Aerodynamics Simulation: Model Building and Analysis	<b>Pu Jiao</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
1:30-1:40	Human Collaborative Haptic-based Mobile-Manipulating UAVs	<b>Dongbin Kim</b> <i>Advisor: Dr. Paul Oh, University of Nevada-Las Vegas</i>
1:40-1:50	A Hybrid-Climbing Robot for Steel Bridge Inspection	<b>Thanh Son Nguyen</b> <i>Advisor: Dr. Hung La, University of Nevada at Reno</i>
1:50-2:00	Hyperspectral Imaging Analysis of Steel Corrosion	<b>Abdullah Alhaj</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>



**INSPIRE UTC Graduate Poster Session**  
**Tuesday, August 4, 2020**  
**9:30 a.m. – 11:00 a.m. (Central Standard Time)**

Presentation

Student Presenter

9:30	Welcome by Dr. Lesley Sneed, Professor, Civil, Architectural & Environmental Engineering, Missouri S&T and Graduate Student Poster Session Chair	
9:30-9:40	Clamping Design for Bridge Inspection Robot Deployment Systems (BIRDS) Prototype II	<b>Bo Shang</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
9:40-9:50	Data-Driven Risk Assessment of Bridges Subject to Corrosion and Scour	<b>Yijian Zhang</b> <i>Advisor: Dr. Iris Tien, Georgia Institute of Technology</i>
9:50-10:00	Autonomous Ultrasonic Thickness Measurement of Steel Bridge Members using Mobile Sensors	<b>Yu Otsuki</b> <i>Advisor: Dr. Yang Wang, Georgia Institute of Technology</i>
10:00-10:10	Experimental Investigation of a Novel SMART Shear Key for Earthquake and Tsunami Mitigation	<b>Xinzhe Yuan</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
10:10-10:20	Automatic Impact-Sounding Acoustic Inspection of Concrete Structure	<b>Jinglun Feng</b> <i>Advisor: Dr. Jizhong Xiao, City College of New York</i>
10:20-10:30	Bridge Inspection Video Data Analysis for Data-Driven Asset Management	<b>Muhammad Monjurul Karim</b> <i>Advisor: Dr. Ruwen Qin, Missouri S&amp;T</i>
10:30-10:40	UAV-based Smart Rock Localization for Determination of Bridge Scour Depth	<b>Haibin Zhang</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
10:40-10:50	Vision-based Non-GPS UAV Guidance for Bridge Inspection	<b>Bo Shang</b> <i>Advisor: Dr. Genda Chen, Missouri S&amp;T</i>
10:50-11:00	Closing Remarks and Winners Announced by INSPIRE UTC Graduate Student Poster Session Chair Dr. Lesley Sneed, Professor, Civil, Architectural & Environmental Engineering, Missouri S&T	