

14th Annual Inter-University Symposium on Infrastructure Management (AISIM 14)

University of Delaware

Newark, DE, USA

Saturday June 16, 2016

THEME: Resilience, Interconnectivity, and Funding for Infrastructure over the next Decade

Program Schedule

Time	
7:30 am – 8:50am	Registration & Breakfast
8:50am – 9:00 am	Opening Remarks
9:00am – 9:30 am	Keynote Address by Dr. Laura J. Steinberg (Syracuse University)
9:30 am – 10:45 am	<p>Presentations</p> <ol style="list-style-type: none"> 1. Nathaniel Shellhamer (Purdue University), Samuel Labi Ph.D., Jon Fricker, Eric Dietz <i>Asset Risk and Vulnerability Assessment for a State Department of Transportation</i> 2. Emmanuel Nii Martey (University of Delaware), Nii Attoh-Okine Ph.D. <i>Bivariate Severity Analysis of Train Derailments using Copula-based Regression Models</i> 3. Sina Abbasgholipour (Texas A&M), Nasir Gharaibeh Ph.D. <i>Assessing the Relationship between PCI and IRI for Urban Areas</i> 4. Byungkyu “Brian” Moon (University of Iowa), Jungyong “Joe” Kim, Ph. D., Hosin “David” Lee, Ph.D., P.E. <i>Development of Pavement Design Sensitivity Analysis System Towards Integrated Pavement Design and Management System</i>
10:45 am – 11:00 am	Coffee Break
11:00 am – 12:00 pm	<ol style="list-style-type: none"> 5. Purna Singh (Georgia Institute of Technology), Sanskruti Joshi, Adjo Amekudzi-Kennedy, PhD. <i>Developing Flood Resiliency in Transportation Systems: A Case Study of three cities analyzing infrastructure policy making and planning, and impacts on resilience</i> 6. Thomas Hall, Ph.D. (Purdue University); Andrew Tarko, Ph.D.; Mario Romero, Ph.D. <i>Project-Oriented Safety Management of Rural Local Roads</i> 7. Shafique Ahmed (University of Delaware), Thomas Schumacher Ph.D., Erik T. Thostenson <i>Managing Fatigue-Prone Steel Bridges with Advanced Self-Sensing Composite Materials</i>
12:00 pm –1:00 pm	Lunch
1:00 pm – 2:15 pm	<ol style="list-style-type: none"> 8. Jingnan Zhao (Rutgers University), Hao Wang, Ph.D. <i>Development of Overweight Permit Fee Using Mechanistic-Empirical Pavement Design and Life-Cycle Cost Analysis</i> 9. Jinwoo Lee, Ilia Papakonstantinou (NYU Abu Dhabi, United Arab Emirates), Samer Madanat <i>A Decision Support Tool for Highway Infrastructure Protection Planning against Sea Level Rise in the San Francisco Bay Area</i> 10. Lasisi Ahmed (University of Delaware), Nii Attoh-Okine Ph.D. P.E. <i>Machine Learning Ensembles and Track Defect Prediction: A Multi-Layer Stacking Methodology</i> 11. Yu Qiao (Purdue University), Jon D. Fricker, Ph.D., Samuel Labi, Ph.D., Trevor Mills <i>Bundling Bridge and Other Highway Projects: Patterns and Policies</i>
2:15 pm –2:30 pm	Coffee Break
2:30 pm – 3:45 pm	<ol style="list-style-type: none"> 12. Yohei Ninomiya (Osaka University, Japan), Masakatsu Tanaka, Daijiro Mizutani Ph.D. Ph.D., Kiyoyuki Kaito Ph.D., <i>Statistical Deterioration Forecasting with Incomplete Renewal History Data Considering Past Management Policy</i> 13. Nathaniel Shellhamer (Purdue University) <i>Road Infrastructure Operations: Direct Demand Estimation for Bus Transit in Small- to Medium-Sized Cities</i> 14. Alaa W. Hameed (Portland State University), Thomas Schumacher Ph.D. <i>Characterizing the Dynamic Response of Coastal Bridges to Wave Forces</i> 15. Xiaodan Chen (Rutgers University), Hao Wang, PhD <i>Life-Cycle Assessment of Environmental Benefits of Thin Overlay for Asphalt Pavement Preservation</i>
3:45 pm – 4:00pm	Closing Remarks
6:00 pm – 9:00 pm	Dinner/Reception/Awards