

**March 28th 2023 (Tuesday)**

<u>Time (EST, UTC-5:00)</u>	<u>Session</u>	<u>Presentation Title</u>	<u>Speaker (Affiliation)</u>
10:00 - 10:10 am		Opening and Introduction	
10:10 - 10:35 am	Keynote-1	Asphalt Mix CO2 Emission Model Using Reduced Production Temperatures	Richard Steger (Ingevity)
10:35 - 10:50 am	Regular-1	Evaluating Clustering Methods for Pavement Mix Designs and Integration into a Friction Prediction Model	Laura Thriftwood (WDM USA Limited)
10:50 - 11:05 am		Connecting Quality Assurance to Pavement Management With Data	Lisa McDaniel (FHWA)
11:05 - 11:20 am		Using Uncertainty Quantification to Evaluate Repeatability of Simplified Viscoelastic Continuum Damage (S-VECD) Model Characterization	Shane Underwood (North Carolina State University)
11:20 - 11:27 am	Lightning Round-1	Prediction of Elastic Moduli from Traffic Speed Deflectometer using Linear Regressions and Random Forest Models	Matias Mendez Larrain (University of Oklahoma)
11:27 - 11:34 am		Vy-matcher: Traffic Speed Deflectometer Signal Interpretation by Nearest-neighbor Matching	Martin Scavone (Virginia Tech Transportation Institute)
11:34 - 11:41 am		Integration of 3DGPR Measurements with the Traffic Speed Deflectometer	Kenneth Maser (Infrasense, Inc.)
11:41 - 11:48 am		Rutting Prediction Model based on Environmental and Traffic conditions in Texas State Using Artificial Neural Network	Pratik Lama (University of Texas at Tyler)
11:48 - 12:00 pm		Closing Comments and Day Wrap-Up	

**March 29th 2023 (Wednesday)**

<u>Time (EST, UTC-5:00)</u>	<u>Session</u>	<u>Presentation Title</u>	<u>Speaker (Affiliation)</u>
10:00 - 10:05 am		Opening and Introduction	
10:05 - 10:30 am	Keynote-2	Development of Artificial Neural Networks for Mechanistic-Empirical Concrete Pavement Design Using A New Adaptive Sampling Method	Haoran Li (MIT)
10:30 - 10:45 am	Regular-2	AI-assisted Design of Low-carbon Cost-effective Concrete	Yi Bao (Stevens Institute of Technology)
10:45 - 11:00 am		Dissecting Uncertainty in Life Cycle Assessment Studies for Pavement Management: A Comparative Study of Tree Ensemble Methods, Distribution-Based and Variance-Based Global Sensitivity Analysis	Andrea Vargas-Farias (University of Twente)
11:00 - 11:15 am		Leveraging Thermal Couple Data at MnROAD	Joseph Podolsky (Minnesota Department of Transportation)
11:15 - 11:20 am	Student Competition-1	Introduction to 2023 Student Competitions	Yaw Adu-Gyamfi (University of Missouri)
11:20 - 11:25 am		Competition-1: 2nd Runner-up Presentation	TBA
11:25 - 11:30 am		Competition-2: 2nd Runner-up Presentation	TBA
11:30 - 11:40 am		Competition-1: Runner-up Presentation	TBA
11:40 - 11:50 am		Competition-2: Runner-up Presentation	TBA
11:50 - 11:55 am		Q&A for Student Competition Presentations	
11:55 - 12:00 pm		Closing Comments and Day Wrap-Up	

**March 30th 2023 (Thursday)**

<u>Time (EST, UTC-5:00)</u>	<u>Session</u>	<u>Presentation Title</u>	<u>Speaker (Affiliation)</u>
10:00 - 10:05 am		Opening and Introduction	
10:05 - 10:12 am	Lightning Round-2	Pavement Inspection Automation: The State-of-the-art and Challenges	ZhiQiang Chen (University of Missouri Kansas City)
10:12 - 10:19 am		Analyzing the Use of Deep Learning for Airfield Pavement Condition Monitoring	Ronald Roberts (Université Gustave Eiffel)
10:19 - 10:26 am		Pavement Distress Detection: A Deep Learning Approach	Saúl Cano-Ortiz (University of Cantabria)
10:26 - 10:33 am		Distribution Fitting and ANOVA Tests to Analyze Pavement Sensing Patterns for Condition Assessments	Dada Zhang (University of Nebraska Lincoln)
10:39 - 10:46 am	Lightning Round-3	Considering Non-Linear Optimization Solutions for Machine Learning using Artificial Neural Networks	Nicolas Gagarin (Starodub, Inc.)
10:46 - 10:53 am		Introduce and Calibrate a Seasonal Variable for Temperature Modeling of Asphalt Pavements using the LTPP Database	Kun Zhang (California State University, Chico)
10:53 - 11:00 am		Development of Dynamic Modulus Prediction Model Using Artificial Neural Network for Colombian Mixtures	Mena Souliman (University of Texas at Tyler)
11:00 - 11:25 am	Student Competition-2	Student Competition-1: Winning Team Presentation	TBA
11:25 - 11:50 am		Student Competition-2: Winning Team Presentation	TBA
11:50 - 12:00 pm		Closing Comments and DSPS2023 Wrap-Up and DSPS2024 Announcement	