

**Various Transformational Technology Sessions at 2020 TRB Annual Meeting: Artificial Intelligence, Machine and Deep Learning, Big Data, Natural Language Processing, Virtual & Augmented Reality, Electric Vehicles, Additive Manufacturing/3D Printing, Robotics, 11/20/19**

	Time	Sessions: Number and Title				
Sunday	9:00 am–12:00 noon	1010-A Primer on Machine Learning for Transportation			1045-Reimagining the Future of Transportation with Personal Flight: Preparing and Planning for Urban Air Mobility, Part 1	
	1:30 pm–4:30 pm	1050-Travel Behavior and Safety Studies from the Psychological and Neurophysiological Perspective: Application of Virtual Reality	1066-Automating Bridge Construction Through Robotics and 3D Printing	1073-Lessons Learned Using “Big Data” to Evaluate Geometric Effects	1083-Unlocking Rail Performance Through the Use of Big Data, Analytics, and Digital Technologies	1087-Reimagining the Future of Transportation with Personal Flight: Preparing and Planning for Urban Air Mobility, Part 2
Monday	8:00 am–9:45 am	1097-Blockchain: Opportunities and Challenges for the Transport Sector	1103-Electric Vehicle Market Development: Moving to Mainstream Adoption	1116-Bio-Mediated Enhancement of Transportation Materials and Infrastructure	1134-Emerging Hypersonic Markets	
	10:15 am–12:00 noon	1162-Applications Natural Language Processing in Transportation Science		1202-Applications of Automatic Identification System Data for Port Performance Estimation	1211-Advances in Artificial Intelligence Applications in Transportation and Road Infrastructure, Part 1	
	1:30 pm–3:15 pm	1238-Planes, Trains, and Maritime Mobility: Advanced Technology Energy Opportunities in New Sectors		1254-Electric Vehicle Fleet Conversion and Operations Management Challenges and Next Steps	1273-Laying a Foundation for Advanced Transportation Technology	1278-Advances in Artificial Intelligence Applications in Transportation and Road Infrastructure, Part 2
	3:45 pm–5:30 pm	1286-How Smart Cities Manage Knowledge	1309-Technology Assisting to Make Better Work Zones	1311-Applications of Advanced Technologies in Highway Maintenance	1325-From Horses to Robots and Cyber: A Century of Military Transportation Progress	1339-Safety Data, Analysis, and Evaluation, Act II: Deep Learning, Induced Exposure, and Other Sophisticated Methods
Tuesday	8:00 am–9:45 am	1369-Machine Learning in the Travel Demand Forecasting Context: A Discussion		1371-Electrification of Heavy Duty Trucks for Short and Long Haul Applications	1372-Transformation Technologies, Market Shares, and Economic Outcomes	

Tuesday, cont.	10:15 am– 12:00 noon	1455-Using Artificial Intelligence to Unlock the Hidden Value of Asset Management Data: Transforming Data into Advanced Decision Making	1480-Transportation Management and Governance in the Age of Disruption
	1:30 pm– 3:15 pm	1513-Leveraging the Power of Machine Learning for Safer Roads	1546-Autonomous Vehicles, Drones, Robots, and Home Delivery
	3:45 pm– 5:30 pm	1597-Artificial Intelligence and Machine Learning Applications for Geotechnical Design and Analysis: Next Generation of Engineering Practice	
Wed	8:00 am– 9:45 am	1689-Best of the Transportation Planning Applications Conference and More!	
	10:15 am– 12:00 noon	1727-The Far Future: Forecasting, Disruptive Technology, and Infrastructure Needs	
	2:30 pm– 4:00 pm	1742-Improving Traffic State Analysis and Prediction with Machine Learning	1744-Improving Mobility Energy Productivity Through Shared, Automated, and Electrified Transport