Session 5A. Big Data and Machine Learning 1
Moderator: Reza Akhavian (California State University, East Bay)

10:15 #132. Pressure Transient Detection and Pattern Discovery in Water Distribution Systems
Lu Xing and Lina Sela

10:30 #303. Estimating Commuting Patterns from High Resolution Phone GPS Data
Bita Sadeghinasr, Armin Akhavan and Qi Wang

10:45 #313. A Deep Learning Methodology for Construction Equipment Activity Analysis
Carlos Hernandez, Trevor Slaton, Vahid Balali and Reza Akhavian

11:00 #349. A Machine Learning Framework to Identify Employees at Risk of Wage Inequality: U.S. Department of Transportation Case Study
Hamid R. Karimian, Behzad Rouhanizadeh, Amirhosein Jafari and Sharareh Kermanshachi

11:15 #369. Machine Learning based Automatic Concrete Microstructure Analysis: A Study on Effect of Image Magnification
Srikanth Sagar Bangaru and Chao Wang

11:30 #70. Business Failure Prediction with LSTM RNN in the Construction Industry
Youjin Jang, In-Bae Jeong, Yong K. Cho and Yonghan Ahn

11:45 #128. Automated Activity Recognition of Construction Equipment Using a Data Fusion Approach
Behnam Sherafat, Abbas Rashidi , Yong-Cheol Lee and Changbum R. Ahn