**15:00** #88. Neuro Fuzzy Inference Systems for Estimating Normal Concrete Mixture Proportions
**Jorge Santamaria, Luis Morales and Paulina Lima**

**15:15** #101. Identifying patterns in Design-Build projects with unsuccessful project performance: a cluster analysis approach
**Yunping Liang, Baabak Ashuri and Wei Sun**

**15:30** #49. Deep Learning with Spatial Constraint for Tunnel Crack Detection
**Qingquan Li, Qin Zou, Jianghai Liao, Yuanhao Yue and Song Wang**

**15:45** #36. An Improved Convolutional Neural Network System for Automatically Detecting Rebar in GPR Data
**Zhongming Xiang, Abbas Rashidi and Ge Ou**

**16:00** #65. Deep Learning Models for Content-Based Retrieval of Construction Visual Data
**Nipun Nath and Amir Behzadan**

**16:15** #103. CNN-based Deep Architecture for Reinforced Concrete Delamination Segmentation through Thermography
**Chongsheng Cheng, Zhexiong Shang and Zhigang Shen**

**16:30** #220. Machine Learning-Based Prediction of Building Water Consumption for Improving Building Water Efficiency
**Lufan Wang and Nora El-Gohary**