



International Journal of Pavement Research and Technology

Volume 7 / Number 4

JULY 2014

Editor's Corner

- IV Highway Pavement Rehabilitation Practice and Nevada's Experience
Changlin Pan

Technical Papers

- 227 The Performance Characteristics of Stone Mastic Asphalt Mixtures Using Oil Palm Fruit Ash-Modified Bitumen
Gatot Rusbintardjo, Mohd Rosli Hainin, Muhammad Ali Mubarak, and Nur Izzati Md. Yusoff
- 237 Influence of Bitumen and Filler on the Selection of Appropriate Mixing and Compaction Temperatures
P. Matos, R. Micaelo, C. Duarte, and L. Quaresma
- 247 Utilizing Asphaltic Concrete Overlay to Mitigate the Detrimental Effects of Alkali Carbonate Reactions in Portland Cement Concrete Pavement
Kevin Gaspard, Zhongjie Zhang, Tyson Rupnow, and Patrick Icenogle
- 256 Laboratory Investigation of Brucite Fiber in Stabilizing and Reinforcing Asphalt Binder
Xiong Rui, Chen Shuanfa, Guan Bowen, Sheng Yanping, and Wang Lu
- 263 A Study on Cross-anisotropy of Unbound Layers of Pavement Considering Nonlinearity
Mesbah U. Ahmed, Rafiqul A. Tarefder, M. Rashadul Islam, and M. Tahmidur Rahman
- 273 Nitrogen Oxide Reduction and Nitrate Measurements on TiO₂ Photocatalytic Pervious Concrete Pavement
Somayeh Asadi, Marwa Hassan, John T. Keavern, and Tyson Rupnow
- 280 Study of Strengthening of Recycled Asphalt Concrete by Plastic Aggregates
B. Melbouci, S. Sadoun, and A. Bilek
- 287 Unsupervised Artificial Neural Network for Efficient Mapping of Doweled Concrete Pavement Joints Condition
S. Mathavan, M. M. Rahman, and M. Stonecliffe-Jones
- 297 Effect of Crumb Rubber Modification on Short Term Aging Susceptibility of Asphalt Binder
Amir Ghavibazoo and Magdy Abdelrahman