SPECIAL ISSUE: Performance of Transportation Infrastructure

SPECIAL ISSUE EDITORS: Dar-Hao Chen and Paulo J. S. Cruz

Editor's Note

135 Special Issue on Performance of Transportation Infrastructure
Kenneth L. Carper

Introduction

136 Performance of Transportation Infrastructure
Dar-Hao Chen and Paulo Cruz

Technical Papers

138 Evaluation of Microclimate Effects on Surfacing Seal Performance
W. JvdM. Steyn and R. Briedenhann

145 Influence of Short-Term Aging on Rheological Characteristics of Non-Foaming WMA Binders
Feipeng Xiao, Serji N. Amirkhanian, and Rengen Zhang

153 Modeling Mechanical Response of a Perpetual Pavement Test Road
Wei Jincheng, Wang Lin, and Ma Shijie

162 Prediction of Pavement Concrete Strength Development, Joint Sawing, and Opening Time Using FEMLAB
Zhi Ge, Kejin Wang, and Zhili Gao

170 Improved Evaluation of Interface Friction on Steel Pipe Pile in Sand
Feng Yu and Jun Yang

180 Field Tests on Bearing Characteristics of X-Section Pile Composite Foundation
Yaru Lv, Hanlong Liu, Xuanming Ding, and Gangqiang Kong

190 Warning Method and System in Risk Management for Loess Engineering Slopes
Mingzhou Bai, Yangqin Du, Xing Kuang, and Guoping Cheng

197 Prediction of Mountain Road Closure Due to Rainfall-Induced Landslides
Shu-Rong Yang, Che-Wei Shen, Chu-En-Ming Huang, Chyi-Tyi Lee, Chin-Tung Cheng, and Chen-Yu Chen