

Managing Performance and Assets; Freight Data and Visualization 2018

Transportation Research Record: Journal of the Transportation
Research Board Volume 2672, Issue 44

ISBN: 978-1-5108-8250-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Published by Sage Publications USA

Copyright© (2018) by Transportation Research Board of the National Academies
All rights reserved.

ISBN (Print) 978-1-5108-8250-8
ISBN 2018 Printed Set (All Issues) 978-1-5108-7335-1

Printed by Curran Associates, Inc. (2019)

For permission requests, please contact sagepub.com/journals-permissions

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Contents

Managing Performance and Assets; Freight Data and Visualization

Articles

| | |
|---|-----|
| A Semi-Automated Method to Generate GIS-Based Sidewalk Networks for Asset Management and Pedestrian Accessibility Assessment <i>Hanyan Li, Jack Cebe, Sara Khoeini, Yanzhi “Ann” Xu, Chelsea Dyess, and Randall Guensler</i> | 1 |
| Data Fusion of Commercial Vehicle GPS and Roadside Intercept Survey Data <i>Sirui Zhu, Glareh Amirjamshidi, and Matthew J. Roorda</i> | 10 |
| Assessment of Resource Allocation and Tradeoff Analysis Approaches in Transportation Asset Management <i>James Bryce, Gonzalo Rada, Samuel Van Hecke, and Joseph Zissman</i> | 21 |
| Validation Protocol for a Pavement Management System <i>Theunis F. P. Henning, Elke Beca, and Gordon Hart</i> | 32 |
| Automatic Prediction of Maintenance Intervention Types in Roads using Machine Learning and Historical Records <i>F. J. Morales, A. Reyes, N. Caceres, L. Romero, and F. G. Benitez</i> | 43 |
| Risk Management and Data Needs: A State of the Practice Survey of State Highway Agencies <i>Inya Nlenanya and Omar Smadi</i> | 55 |
| Framework for Interactive M^3 Visualization of Microscopic Traffic Simulation <i>Hong Yang, Yuzhong Shen, Mahmud Hasan, Daniel Perez, and John Shull</i> | 62 |
| Simulation Games to Study Transportation Issues and Solutions: Studies on Synchronomodality <i>Ioanna Kourounioti, Shalini Kurapati, Heide Lukosch, Lóránt Tavasszy, and Alexander Verbraeck</i> | 72 |
| The CLIOSjre Process: A Flexible Multicriteria, Multistakeholder Decision Framework for Transportation Planning under Uncertainty <i>Joanna Moody, Timothy Patton Doyle, Scott Middleton, and Joseph Sussman</i> | 82 |
| Applying Innovative Performance Metrics for Corridor Evaluation <i>Maria Vyas, Jeffery Harris, Ted Knowlton, G. J. LaBonty, Ronald T. Milam, Shawn Seager, Chris Williges, and Lisa Zundel</i> | 93 |
| Long-Distance, Multimodal Freight in a Continental Transportation Model <i>Klaus Noekel, Ian Williams, and Davide Fiorello</i> | 103 |