

Freeway Operations; Regional Systems Management and Operations; Managed Lanes

Transportation Research Record: Journal of the Transportation
Research Board Volume 2616 (2017)

ISBN: 978-1-5108-5419-2

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.

Copyright© (2017) by Transportation Research Board of the National Academies
All rights reserved.

ISBN (Print) 978-1-5108-5419-2
ISBN 2017 Printed Set (All Issues) 978-1-5108-5406-2

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact Transportation Research Board of the National Academies
at the address below.

Transportation Research Board
The National Academies of Sciences, Engineering, and Medicine
500 Fifth Street, NW
Washington, DC 20001

Phone: (202) 334-2934
Fax: (202) 334-2519

trbsales@nas.edu

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

TABLE OF CONTENTS

Operating Speed on a Buffer-Separated Managed Lane	1
<i>Fitzpatrick, Kay; Avelar, Raul; Lindheimer, Tomás E.</i>	
Effect of Geometric Factors on Lateral Position of Vehicles in Freeway Buffer-Separated Managed Lanes	10
<i>Lindheimer, Tomás E.; Fitzpatrick, Kay; Avelar, Raul; Miles, Jeffrey D.</i>	
Queue Length Estimation for Freeway Facilities: Based on Combination of Point Traffic Detector and Automatic Vehicle Identification Data	19
<i>Fakharian Qom, Somaye; Hadi, Mohammed; Xiao, Yan; Al-Deek, Haitham</i>	
Assessing Need for Systemwide Ramp Metering Installation Warrants	27
<i>Fartash, Homa; Hadi, Mohammed; Xiao, Yan; Wang, Tao; Ponnaluri, Raj</i>	
Role of Multiagency Response and On-Scene Times in Large-Scale Traffic Incidents	39
<i>Li, Xiaobing; Khattak, Asad J.; Wali, Behram</i>	
Long-Range Dependence of Traffic Flow and Speed of a Motorway: Dynamics and Correlation with Historical Incidents	49
<i>Chand, Sai; Aouad, Gregory; Dixit, Vinayak V.</i>	
Identifying Wrong-Way Driving Hotspots by Modeling Crash Risk and Assessing Duration of Wrong-Way Driving Events	58
<i>Sandt, Adrian; Al-Deek, Haitham; Rogers, John H., Jr.</i>	
Effects of Rain on Freeway Traffic in Southern California	69
<i>Dhaliwal, Sawanpreet Singh; Wu, Xinkai; Thai, John; Jia, Xudong</i>	
Using Agency Surveys and Benefit–Cost Analysis to Evaluate Highway Advisory Radio as Regional Traveler Information and Communication Tool	81
<i>Sandt, Adrian; Al-Deek, Haitham; Rogers, John H., Jr.; Kayes, M. Imrul</i>	
Evaluation of Operational Effects of I-66 Active Traffic Management System	91
<i>Chun, PilJin; Fontaine, Michael D.</i>	
Application of Traffic Thermostat for I-30 Managed Lanes in Dallas, Texas	104
<i>Wood, Nicholas S.; Burris, Mark; Geiselbrecht, Tina S.; Bettger, Natalie; Lamers, Dan</i>	
Evaluation of Signage Alternatives for Express Lane Facilities: Focus Group Study	114
<i>Alluri, Priyanka; Gan, Albert; Saha, Dibakar; Fernandez, Luis Ortega</i>	
Author Index	