

TRANSPORTATION RESEARCH RECORD

Journal of the Transportation Research Board, No. 2147

Contents

Foreword	vii
Publication Bias in Road Safety Evaluation: How Can It Be Detected and How Common Is It? Alena Høye and Rune Elvik	1
Accidents and Accessibility: Measuring Influences of Demographic and Land Use Variables in Honolulu, Hawaii Karl Kim, Pradip Pant, and Eric Yamashita	9
Personal Digital Assistants to Collect Data on Animal Carcass Removal from Roadways Bridget M. Donaldson and Nelson W. Lafon	18
Genetic Programming to Investigate Design Parameters Contributing to Crash Occurrence on Urban Arterials Abhishek Das, Mohamed Abdel-Aty, and Anurag Pande	25
Validation of U.S. Road Assessment Program Star Rating Protocol: Application to Safety Management of U.S. Roads Douglas W. Harwood, Karin M. Bauer, David K. Gilmore, Reginald Souleyrette, and Zachary N. Hans	33
Large-Scale Automated Analysis of Vehicle Interactions and Collisions Nicolas Saunier, Tarek Sayed, and Karim Ismail	42
Proposed Safety Index Based on Risk-Taking Behavior of Drivers Kelvin R. Santiago-Chaparro, Xiao Qin, and David A. Noyce	51
Effect of Street Pattern on Road Safety: Are Policy Recommendations Sensitive to Aggregations of Crashes by Severity? Shakil Mohammad Rifaat, Richard Tay, and Alex de Barros	58