

# ADVANCES IN TRANSPORTATION STUDIES

## *An International Journal*

Special Editor  
Francesco Bella

Special issue • July 2014 Vol. 2

---

### Contents

F. Bella	3	Editorial
N. Stamatiadis, A. Kirk	5	Simulation-based guidelines for road “diets”
A. Billot-Grasset, V. Viallon, E. Amoros, M. Hours	17	Typology of bicycle crashes based on a survey of a thousand injured cyclists from a road trauma registry
A. Akinwuntan, R. Chong, G. Daniel, J. Fleming, K. Lokey	29	Simulator Adaptation Syndrome (SAS) and the vestibular system: an exploratory study
M.A. Manore	39	How MAP-21 reauthorization by United States congress advances opportunities for human factors in geometric highway design safety evaluations
J.M. Jenkins, B. Moran	47	Scenario for practicing steering in a driving simulator
M.R. De Blasiis, M. Di Prete, C. Guattari, V. Veraldi, G. Chiatti, F. Palmieri	59	The effects of traffic flow conditions on the pollutants emissions: a driving simulator study
C. Llorca, A.T. Moreno, A. Garcia, A.-M. Pérez Zuriaga	71	Multiple passing maneuvers: new design and marking criteria to improve safety
A. Tageldin, T. Sayed, M.H. Zaki, M. Azab	83	A safety evaluation of an Adaptive Traffic Signal Control system using Computer Vision

