



Séminaire du CIRRELT Seminar

José Holguin-Veras

Rensselaer Polytechnic Institute, États-Unis/USA



PARTIE 2 - THE THEORY BEHIND THE OFF-HOUR DELIVERY PROJECT IN NYC

ABSTRACT

The presentation discusses the economic foundations of congestion pricing, its potential use for freight demand management, and the associated limitations. The paper on which the presentation is based develops a set of analytical formulations to study the behavior of the urban delivery industry in response to cordon time-of-day pricing, time-distance pricing, and comprehensive financial policies targeting carriers and receivers. This is accomplished by modeling the behavior of receivers in response to financial incentives, and the ensuing behavior of the carrier in response to both pricing and the receiver decisions concerning off-hour deliveries. The analytical formulations consider both the base case condition, and a mixed operation with both regular hour and off-hour deliveries; two pricing schemes: cordon time of day, and time-distance pricing; two types of operations: single tour, and multi-tour carriers; and three different scenarios in terms of profitability of the carrier operation, which include an approximation to the best case, the expected value, and the worst case. The analyses, both theoretical and numerical, highlight the limitations of pricing-only approaches. The concept outlined by this research was successfully pilot tested in New York City, receiving great praise from the business community as a business friendly way to improve sustainability of urban deliveries. An earlier version of this research was presented as a plenary lecture of the International Transportation Economics Conference in Minneapolis, Minnesota 2009.

VERSO : Note biographique / Biographical sketch

VENDREDI / FRIDAY

15 novembre 2013 /
November 15th, 2013

PARTIE / PART 2 : 11h

Salle / Room 6254
Pavillon André-Aisenstadt
Université de Montréal

Ouvert à tous / Open to all

Organisateur / Organizer
Teodor Gabriel Crainic





Dr. José Holguín-Veras, is the William H. Hart Professor and Director of the Volvo Research and Educational Foundations Center of Excellence for Sustainable Urban Freight Systems, and the Center for Infrastructure, Transportation, and the Environment at Rensselaer Polytechnic Institute. He is the recipient of numerous awards, including the 2013 White House's Transportation Champion of Change Award, the 1996 Milton Pikarsky Memorial Award, and the 2001 National Science Foundation's CAREER Award. His research interests are in the areas of freight transportation policy, modeling, and economics, and humanitarian logistics. His work opened the door to new paradigms of freight systems that, increase economic efficiency environmental justice, sustainability, livability and environmental justice. His work on humanitarian logistics has played an improving disaster response procedures, and has led to deeper insight into how best to respond to large disasters and catastrophic events. He is President of the Scientific Committee of the Pan-American Conferences of Traffic and Transportation Engineering, and member of the Scientific Committee of the World Conference of Transport Research. He is a member of numerous technical committees and editorial boards of leading journals. He received his Ph.D. from The University of Texas at Austin in 1996; a M.Sc. from the Universidad Central de Venezuela in 1984; and a B.Sc. from the Universidad Autónoma de Santo Domingo en 1982.

