PacTrans Regional Transportation Seminar

Speaker: Terry L. Friesz, PhD

Date: Tuesday, March 7, 2017
Time: 3:30 - 4:30pm, PST
Location: UW Seattle Campus
Husky Union Building (HUB) RM 145

Webinar URL

https://www.youtube.com/watch?v=5TER65fWIQo

Organized by

The Pacific Northwest Transportation Consortium (PacTrans) Region 10 University Transportation Center

Speaker

Professor Terry L. Friesz, PhD

Presentation Title

The History, Frontier and Interdisciplinary Impact of Dynamic Traffic Assignment Research

Abstract

In this talk, we review some of the history of dynamic traffic assignment research, with emphasis on dynamic user equilibrium and parallel developments in the theory of dynamic noncooperative games. In particular, we present some simple dynamic congestion games using the notion of differential variational inequalities. We also discuss how other applications, including revenue management and supply chains, may be similarly modelled. The presentation will include algorithms and numerical examples, as well as remarks about the future of model-based transportation planning.

Speaker

Terry L. Friesz is the Harold and Inge Marcus Chaired Professor of Industrial Engineering at Penn State, where he also Director of the Center for Service Enterprise Engineering. He has previously been a faculty member at MIT, George Mason University, and the University of Pennsylvania, where he held the UPS Foundation Chair in Transportation. His work has appeared in Operations Research, Transportation Research Part B, Transportation Science, Mathematical Programming, The Journal of Regional Science, Regional Science and Urban Economics, Environment and Planning and other scientific journals. He is Editor-in-Chief of Networks and Spatial Economics and Associate Editor of Transportation Research Part B. His book Dynamic Optimization and Differential Games was published by Springer in 2010. A second book, Foundations of Network Optimization and Games, was published in 2016, also by Springer.

For questions, please contact Cole Kopca, Assistant Director for PacTrans, at pactrans@uw.edu | 206.685.6648 | www.pactrans.org
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