

Socially-Aware Mobility Systems

Dr. Pascal Van Hentenryck
Chair and Professor
Georgia Institute of Technology

Abstract: The convergence of several technology enablers, including ubiquitous connectivity, autonomous vehicles, and sophisticated analytics, provides unique opportunities to fundamentally transform mobility in the next decade. Ride-sourcing services have modernized taxi services but they have also increased congestion and widened inequalities in accessibility. This talk looks at mobility from a logistics and supply chain angle, and presents novel mobility services that have the potential to be scalable and sustainable, handling both the first/last mile problem, congestion, and greenhouse gas emissions. Case studies demonstrating novel mobility services will be presented.

Bio: Pascal Van Hentenryck is the A. Russell Chandler III Chair and Professor in the H. Milton Stewart School of Industrial and Systems Engineering at the Georgia Institute of Technology, the Associate Chair for Innovation and Entrepreneurship, and the director of the Socially Aware Mobility (SAM) and Risk-Aware Market Clearing (RAMC) labs. Van Hentenryck is an INFORMS Fellow and a Fellow of the Association for the Advancement of Artificial Intelligence (AAAI), the recipient of two honorary doctoral degrees, and teaching excellence award at Brown University and Georgia Tech. Several of his optimization systems, including the CHIP and OPL systems, have been in commercial use for more than 20 years. His current research focuses on machine learning, optimization, and privacy with applications in mobility, energy, and resilience.