



Multi-agent System Applications: On-demand Electric Vehicles Dial-a-Ride Operation System

By Yee Ming Chen

iConcept Press. Paperback. Condition: New. 102 pages. Dimensions: 9.6in. x 6.7in. x 0.2in. Transportation is one of the industrial sectors most impacted by global climate change. Electric vehicles are energy-efficient and often presented as a zero-emission transport mode to achieve longer-term decarbonization visions in the transport sector. Governments are recognizing the highest priority of development of public transit policies for sustainability. Taxis are visible and thus electric vehicle use in taxi service can bring attention in urban life to a commitment towards sustainability in the public opinion. For this reason, this lecture note proposed a multi-agent system (MAS) approach incorporating electric vehicle dial-a-ride (DAR) operation and the appropriate car-pool and car-sharing schemes design for taxi service. The dial-a-ride operation problem consists of designing vehicle routes and schedules for users who specify pick-up and drop-off requests between origins and destinations. We have made some MAS simulation studies, which aims to minimize the total vehicle-distance travelled subject to meeting all advanced customers requests, and constraints on vehicle capacity, pickup delivery time-window, customer ride-time and battery-charging restrictions. In this study, we designed vehicle dial-a-ride operation system and algorithm development for dynamic variants of electric vehicles DAR, to enable on-line simulations of realistic scale for...

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