



APPROXIMATE DYNAMIC PROGRAMMING FOR DYNAMIC VEHICLE ROUTING

When: Thursday, Oct. 11th, 11am-12pm

Where: Groseclose 402

Summary. This talk addresses the emerging field of dynamic vehicle routing. For these types of problems, plans are subsequently updated with respect to newly revealed information. Furthermore, stochastic information about potential future developments is available. This talk discusses modeling of dynamic vehicle routing problems and how they can be solved. To this end, a variety of solution methods from the field of approximate dynamic programming are presented. The talk further gives an outlook on recent challenges in both applications and methodology.



Speaker. Marlin Ulmer has been an assistant professor for Prescriptive Analytics since 2017 at the Technische Universität Braunschweig. He got his PhD in Braunschweig as well in 2016 and his diploma in Mathematics at the Universität Göttingen in 2010. He further did a Post Doc at the University of Iowa in 2016. His research focus is on anticipatory optimization methods in urban logistics.