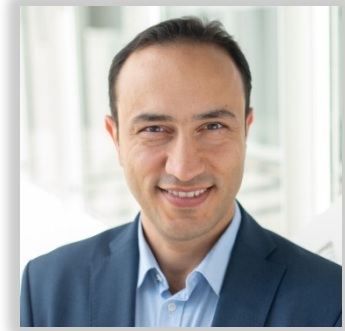




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as part of the CIRRELT Annual Conference

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DISRUPTIVE TECHNOLOGIES IN TRANSPORTATION: THE CASE OF ELECTRIFICATION

Abstract: Disruptive technologies such as electric vehicles, drones and autonomous vehicles are creating paradigm shifts in the transportation sector. In this talk, we briefly review such emerging technologies and discuss their impacts on the transportation ecosystem. We then focus on electrification of transportation, and in particular, on the location optimization of the intercity charging stations. We discuss methods to model the driver tolerance towards deviating from their paths to recharge and discuss the methodological implications. Our findings reveal that the uncovered vehicle flow is mainly due to the range limitations rather than the deviation intolerance.

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