

VORTRAG

“Green Vehicle Routing“

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Abstract:

In green vehicle routing the aim is to design vehicle routes while trying to minimize polluting emissions. This is done by minimizing fuel consumption which mostly depends, in a non-linear fashion, on speed, load and distance traveled. In this talk I will first describe the speed optimization problem on a fixed route, which was first developed in a maritime transportation context. I will then describe the pollution-routing problem first proposed by Bektas and Laporte in a Transportation Research, Part B article in 2011. Finally, I will provide a brief overview of several projects that were carried out in recent years after the publication of the pollution-routing article. These concern the development of heuristics for several variants of the pollution-routing problem, an application to city logistics, and an emerging line of research on the use of electric vehicles for goods transportation.