



Understanding and Modeling Mobility Characteristics of Scooters and Motorcycles for User-centric ITS Applications



Sosina M. Gashaw

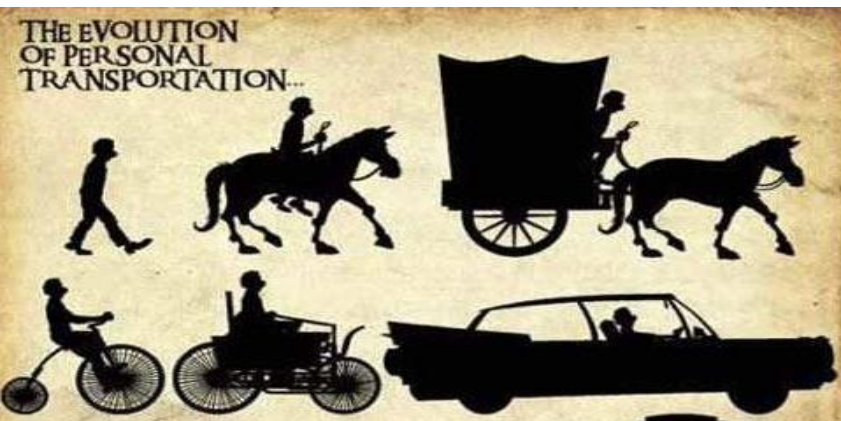


Advisors: Jérôme Härri and Paola Goatin





Need for study



Increased use of cars



Traffic congestion



- Can 2 wheelers be solution?

Save space

Less polluting

More mobile
in traffic jams

No texting while riding

More fun



- However Highly vulnerable!

- ✓ How to ensure peaceful co-existence

- ITS applications
- Traffic policy improvement



Challenges & Methodology



More than one
on a single lane



Doesn't follow
lane discipline



Zero
headway

- Analyzing available models
 - Macroscopic
 - Porous flow approach
 - Microscopic
 - Cellular automata and Modified car following
- Proposing model that fits best



Thank you 😊

