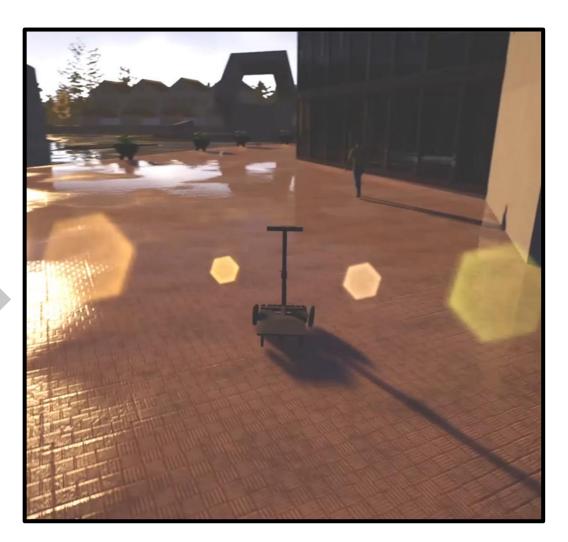


## Virtuelle Validierung von autonomen Mikromobilitätsfahrzeugen

#### Scoomatic



Virtuelle Validierung







# CARLA – virtuelle Umgebung

### http://carla.org/

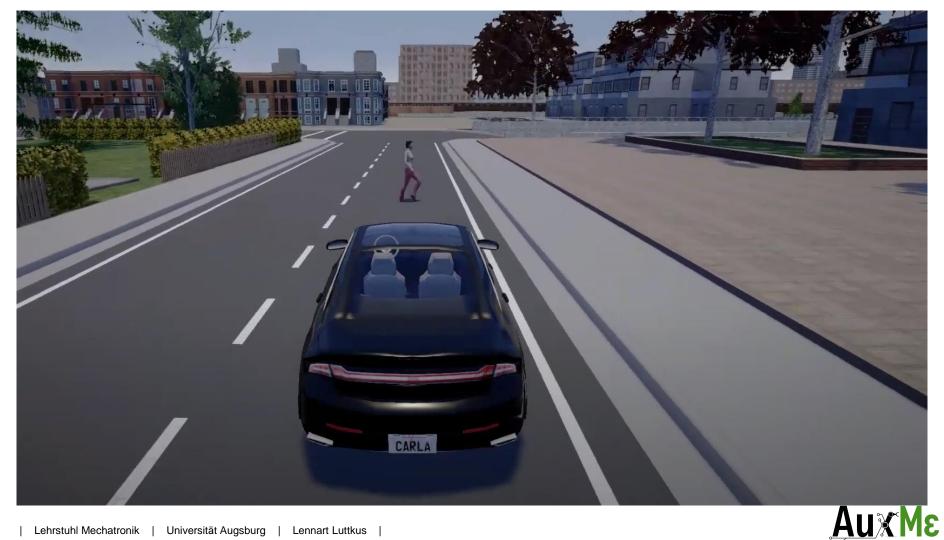






## Falsifizerung

#### Mikroskopsiche Bewertung der Sicherheit von Verkehrsagenten in CARLA



https://yo utu.be/Ch mF8IFag po?t=76



### Falsifizierung

#### Makroskopische Bewertung der Sicherheit von Verkehrsagenten in CARLA

L. Heinzmann, S. Shafaei, M. H. Osman, C. Segler, and A. Knoll, "A Framework for Safety Violation Identification and Assessment in Autonomous Driving,"







(a) State-Map of the RL agent without traffic

(b) State-Map of the IL agent without traffic

Figure 2: State-Map of the evaluation scenario without traffic

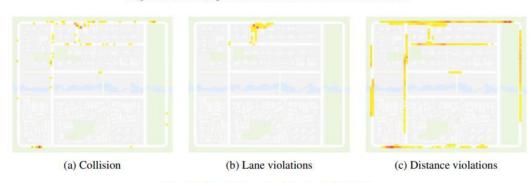


Figure 3: State-Map of the IL agent with traffic

