**Motivation**

IEEE 802.11 OCB* communication enables mutual awareness. Periodic CAM broadcasts in combination with slow relative speeds can cause recurring hidden terminal packet collisions!

**Problems**

Highly dense and complex traffic scenarios. High amount of collisions due to short contention window in IEEE 802.11 OCB!

**Concepts**

Random Transmit Power Control (RTPC):
Random selection of current TX power for each transmission and vehicle.

Geo-Backoff:
Vehicles with slightly different positions would result in the selection of a significantly different backoff counter (= cryptographic hash functions).

**Results**

Reducing traffic fatalities

Gained congestion reduction can be used to further increase the TX rate... which increases the communication performance significantly for close-by vehicles, where it is critical!

**Objective:** Reduced packet collision probability with close-by vehicles!

Investigations still ongoing within the GLOVE project.