Vehicle Automation in Signalized Urban Corridors

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Vehicle Automation Requirements & Challenges



MAVEN scenario



Credit: [1]







Platooning test. Location: August-Euler-Flugplatz, Griesheim-Germany

[1]: https://news.stanford.edu/2017/05/22/stanford-scholars-researchers-discuss-key-ethical-questions-self-driving-cars-present/

 $\cite{2:https://www.motorauthority.com/news/1079974_volvo-outlines-benefits-of-car-2-car-communication$





Cooperative Perception Message Generation









Cooperative Perception Sensor Fusion

- Track 2 Track Fusion

MAVEN

- Association via Clustering

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- Covariance Intersection









[1]: https://ardianumam.wordpress.com/2017/09/27/newtons-method-optimization-derivation-and-how-it-works/

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Credit: [1]



Vehicle Automation





Location: Tostmannplatz Braunschweig





Vehicle Automation



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Validation









Validation







Validation







Thank you!

Questions?



