



# **FOM Hochschule für Ökonomie und Management**

Hochschulzentrum München

## **Seminararbeit**

Im Rahmen des Moduls

Arbeitsmethoden und Softwareunterstützung

Über das Thema

## **Umwelteffekte des autonomen Fahrens**

von

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# 1 Einleitung der Arbeit

## 1.1 Forschungsfrage

Welche Auswirkungen haben Kraftfahrzeuge auf die Umwelt und wie kann autonomes Fahren die negativen Auswirkungen reduzieren?

## 1.2 Hypothese

Je mehr Fahrzeuge autonom fahren, desto geringer fällt die Feinstaubbelastung durch Kfz aus.

## 1.3 TBD

-Kraftfahrzeuge einfluss auf die Umwelt -steigende Zulassung bei Fahrzeugen durch steigende Globalisierung -steigende Temperaturen, Feinstaubbelastung -steigende CO2-Emissionen durch Kfz -durch bessere Fertigungsmethoden gibt es mehr Autos -Umweltbelastung durch Umwege -Umweltbelastung durch Fahrfehler -Umweltbelastung durch Kfz-Fahrer -Umweltbelastung durch Staus -Umweltbelastung durch LKW

## 1.4 Definitionen

### 1.4.1 Kraftfahrzeuge

*Als Kraftfahrzeuge im Sinne dieses Gesetzes gelten Landfahrzeuge, die durch Maschinenkraft bewegt werden, ohne an Bahngleise gebunden zu sein.*<sup>1</sup>

Kraftfahrzeuge können in folgende Kategorien eingeteilt werden:

- Personenkraftwagen
- Nutzfahrzeuge
- Krafträder
- Anhänger
- Wohnmobil
- Militärfahrzeuge
- Sonderfahrzeuge

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<sup>1</sup>§ 1 Abs. 2 Straßenverkehrsgesetz

### **1.4.2 Autonomes Fahren**

Hier wird erklärt was Autonomes Fahren ist

### **1.4.3 Umwelteinflüsse**

Hier wird erklärt was Umwelteinflüsse sind

#### **Feinstaubbelastung**

Was ist eine Feinstaubbelastung?

#### **Co2 Emissionen**

Was ist Co2 Emission?

## 2 Hauptteil

### 2.1 Forschungsgegenstand im Detail

#### 2.1.1 Beschreibung des Standes der Technik beim Autonomen Fahren

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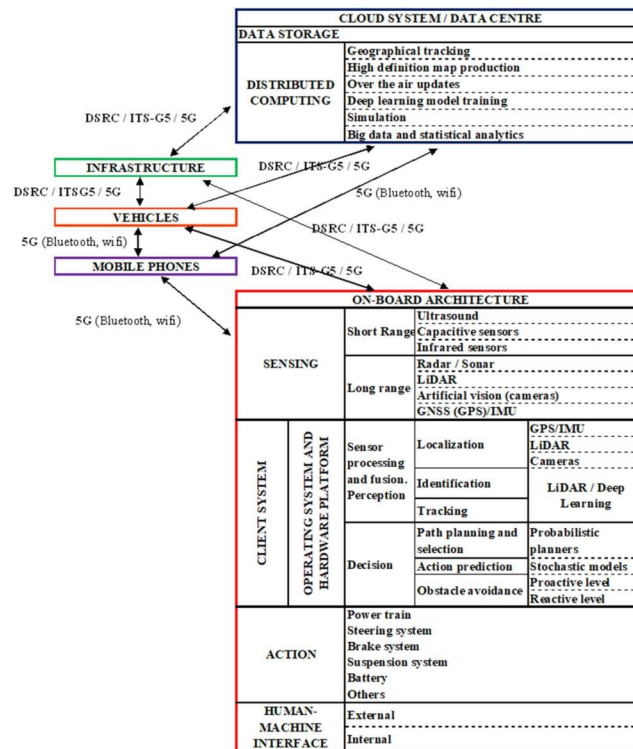
#### 2.1.2 Größte Unfallrisiken und deren Vermeidung

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#### 2.1.3 Ethische Problemsituationen

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Bild 1: Architektur



Quelle: Martínez-Díaz, M./Soriguera, F./Pérez, I., Autonomous driving: a bird's eye view, 2019, S. 564.

large. One ethical condition, however, should be crucial: in no case should the ethical algorithms be put in practice as nontransparent black boxes. The built-in norms should, as far as possible, be understood and commonly shared.

## 2.2 These im Detail

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## 2.3 Untersuchungsmethode

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## 2.4 Literaturanalyse

Tabelle 1: Tolle Tabelle

cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

Quelle: Martínez-Díaz, M./Soriguera, F./Pérez, I., Autonomous driving: a bird's eye view, 2019, S. 564.

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## 2.5 Diskussion

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<sup>1</sup>Vgl. Baumann, M. F. u. a., Taking responsibility: A responsible research and innovation (RRI) perspective on insurance issues of semi-autonomous driving, 2019, S. 558.

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### 2.5.1 Diskussion der These an Hand der Literatur

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### 2.5.2 Qualität der Aussage

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## 2.6 Fazit – Konsequenzen

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## 3 Schluss

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### 3.1 Kurzzusammenfassung der Arbeit

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### 3.2 Weitere Empfehlungen

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