

Project idea: PrediCrash – Realtime Data-Driven Crash Predictions

Call area: No. 5 Sustainable and smart mobility

Contact

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Project Description

Real time indication of autonomous crash-mitigation actions to minimize pedestrian or occupant injury based on data-driven crash predictions considering real time internal and environmental sensor data.

Project Objectives

- Sensor data modeling and processing workflows
- Data-driven crash predictions using pre-trained models for defined scenarios
- Real time human injury predictions
- Define mitigation actions and real time decision making
 - External: Autonomous driving maneuvers
 - Internal: Dynamic restraint system adaptations

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Our know-how...

- Domain Expertise Passive Safety
- Finite-Element Crash Simulations
- Generation and Assessment of Synthetic Training Data
- Data-driven Real Time Crash Predictions
- Human Body Dynamics

We are looking for...

- AI-Experts
- Autonomous Driving Experts
- Traffic and Accident Researchers
- AI-based Video and Image Analysis
- Automotive Sensor System Experts