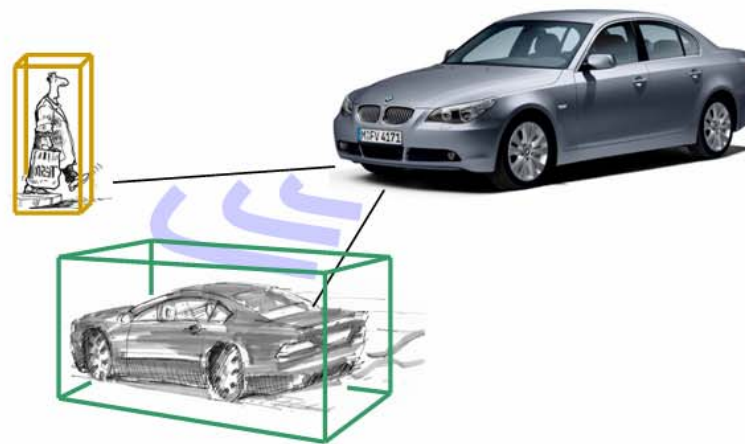




# Detection of Road Users in Fused Sensor Data Streams for Collision Mitigation

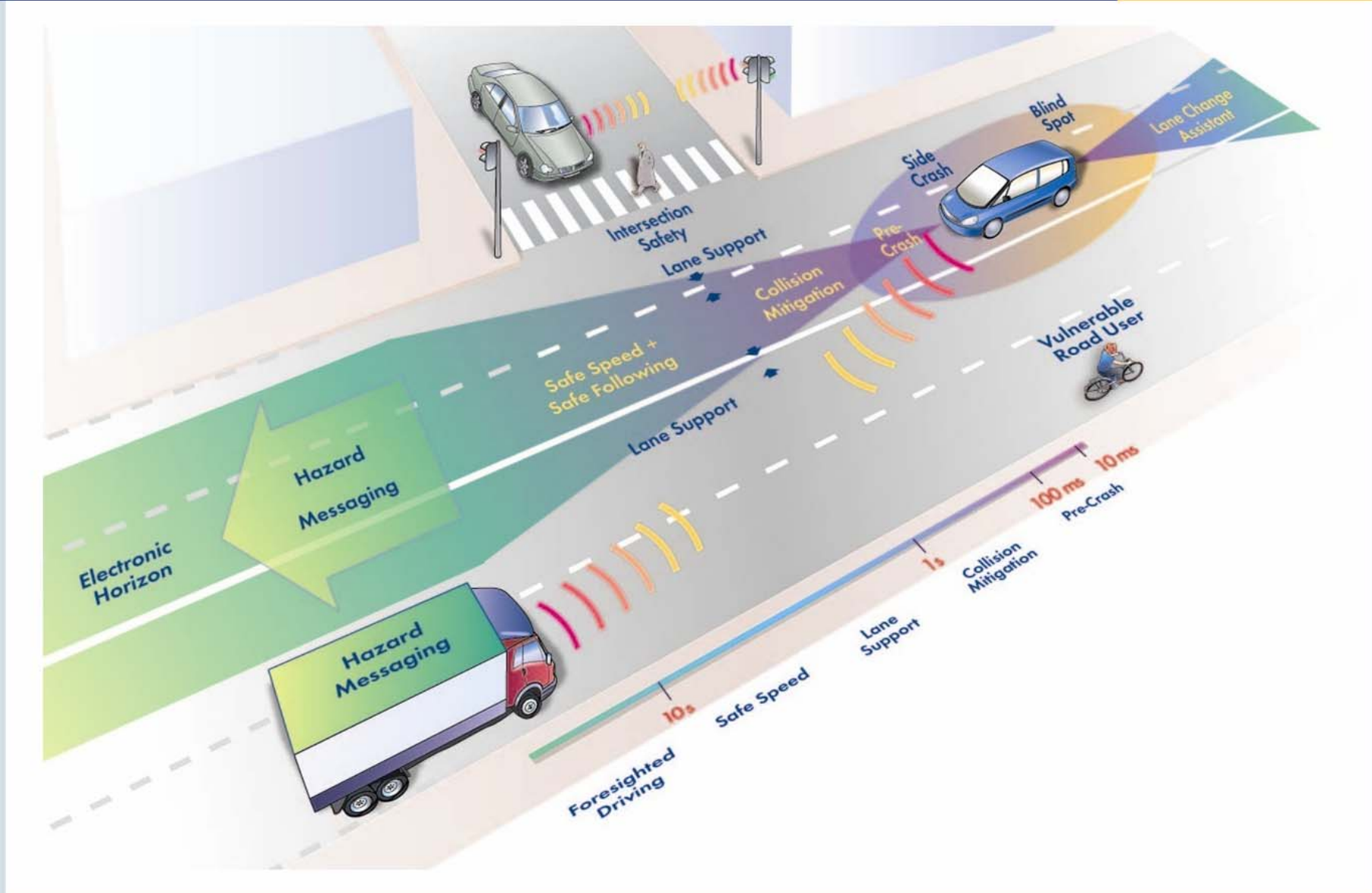
10th International Forum on Advanced Microsystems and Automotive Applications



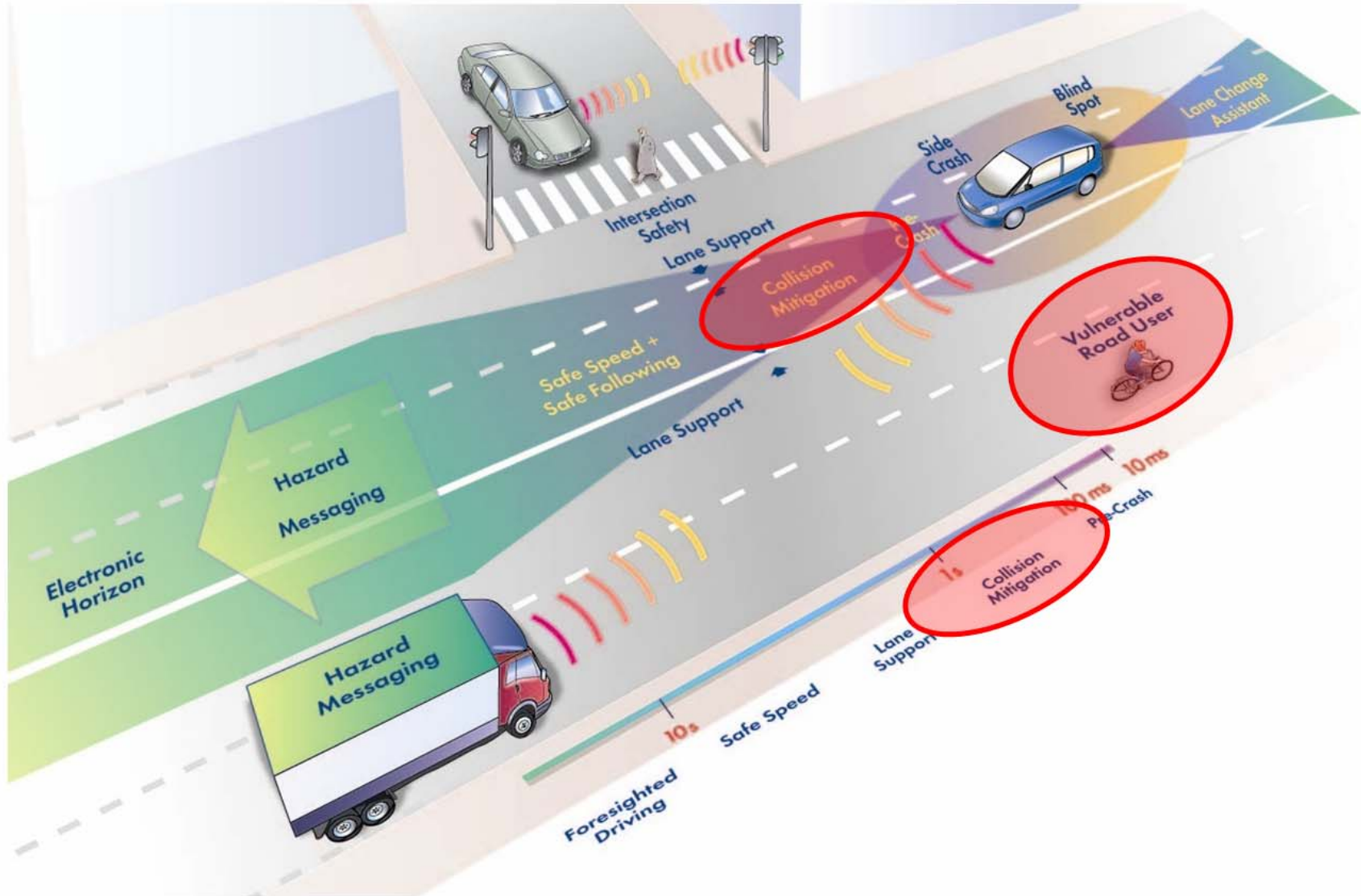
Leonhard Walchshäusl,  
BMW Group Research and Technology



# Application



# Application



# Experimental Car and Sensor Configuration



LIDAR



Visual Camera



FIR Imaging Device



LR RADAR



SR RADAR



# Experimental Car and Sensor Configuration



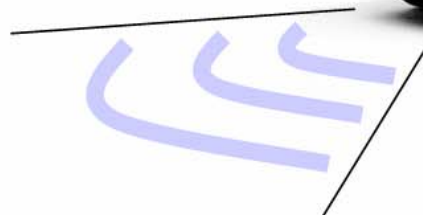
LIDAR



Visual Camera



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LR RADAR



SR RADAR



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# Experimental Car and Sensor Configuration



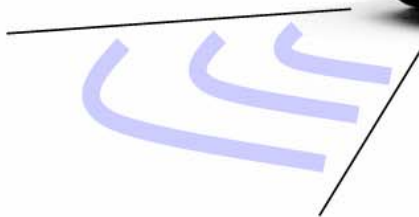
LIDAR



Visual Camera



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SR RADAR



# Experimental Car and Sensor Configuration



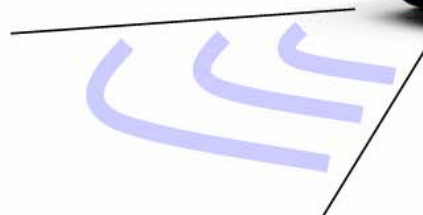
LIDAR



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LR RADAR

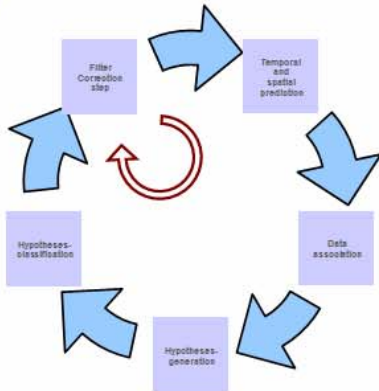


SR RADAR

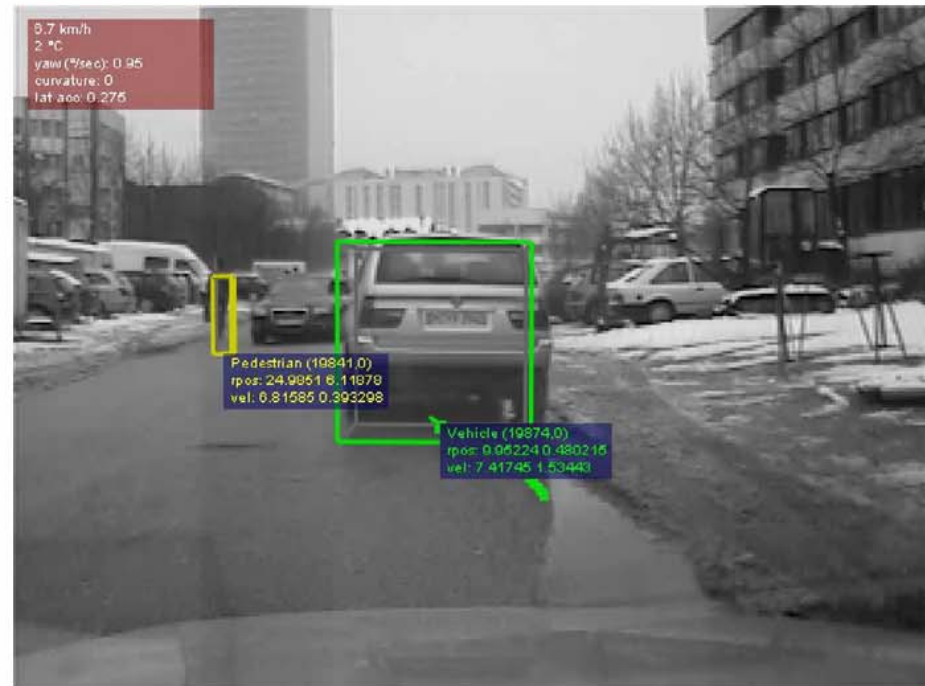
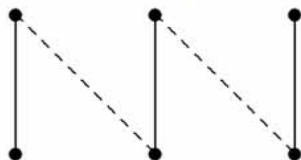




- Keywords
  - Early Sensor Fusion
  - Cyclic Architecture



- Advanced Object Models
- Multi-Sensor Classifier
- Bipartite Graph Matching



# Detection of Road Users in Fused Sensor Data Streams for Collision Mitigation



- Thank you very much for your attention
- Poster Session

