



TOPICS FOR BACHELOR/MASTER THESIS



ARCHITECTURES FOR SELF-DRIVING-CARS

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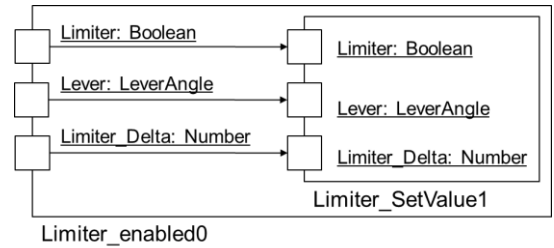
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Task Definition:

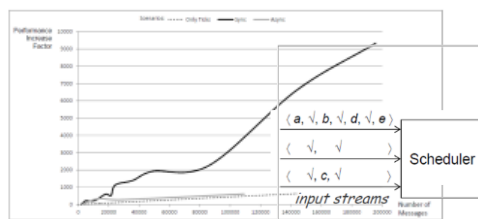
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For further information of the concrete BA/MA thesis please make an appointment with E. Kusmenko or M. von Wenckstern!



TOOLING

Further Development of Online IDE with Auto Completion, Outline, Error Messages and Model Visualization



MODELING

Create Model-Library for Self-Driving and Cooperative Cars

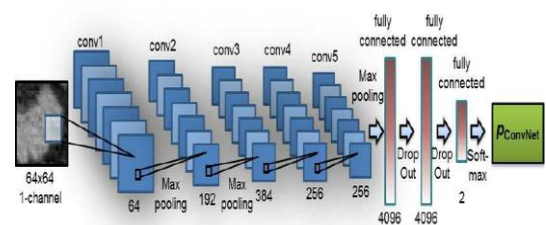
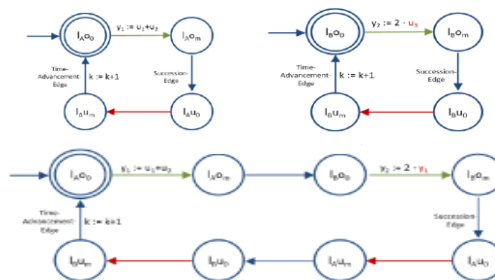


SIMULATION

Code Generation & Execution of multiple Models, Handling Communications between Models and World

VISUALIZATION

Build JS-Script to move 3d-Objects in ThreeJS, Interaction with Simulation



MODEL-CHECKING

Extend Verification-Framework: Find Duplicated Code (Clones), Find Similarities between Components (Product Line)

DEEP LEARNING

Model, Train and Validate deep networks for automated decision making