



## Vehicle Input by Driver and ADAS



- Direct Driver input (steering wheel, throttle/brake (pedal))
- Vehicle mode setting
- Vehicle movement via vehicle sensor (accelerations, wheel speeds, yaw rate)
- Actual Trajectory via ADAS sensors (cameras, lidar) and road

## Vehicle Physics Model



- Calculation of "Non-Physical" values needed for Vehicle Motion Control Strategy
- Reference Speed
- Requested yaw rate and lat. acc.
- Wheel slip and velocity
- Required trajectory
- Estimated friction coefficient

## Vehicle Motion Control Strategy



- Target torque/speed per wheel for smart actuators
- Open loop torque/speed
- Closed loop torque/speed
- Closed loop vehicle
- Target values for steering systems
- Target values for chassis systems

## Smart Actuators



- eDrive front/rear
- Torque vectoring system
- Decoupling
- Service brakes
- Brake booster
- ABS/ESP controller
- Steering front/rear
- Chassis systems

## Actual Vehicle Behavior



- Vehicle speed
- Vehicle trajectory
- Vehicle accelerations
- Tire side/slip and scrub angle
- Real driver reaction

# Advanced Motion Control

**J Rink**



## **Advanced Motion Control:**

Embark on a breathtaking journey through nature and adventure with is mesmerizing ebook, Natureis Adventure: **Advanced Motion Control** . This immersive experience, available for download in a PDF format ( PDF Size: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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