

1. Record Nr.	UNINA9910476900603321
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Titolo	Vorausschauende Regelung von Fahrzeugsystemen durch stochastische Vorhersage der Fahrzeugdynamik
Pubbl/distr/stampa	Karlsruhe, : KIT Scientific Publishing, 2021
ISBN	1000125407
Descrizione fisica	1 electronic resource (236 p.)
Collana	Karlsruher Schriftenreihe Fahrzeugsystemtechnik
Soggetti	Mechanical engineering & materials
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Predictive control of vehicle systems often requires application of forecasting models. In this work a stochastic framework for generating forecasts of vehicle dynamics is proposed, to directly address uncertainty within the control algorithms. Building on this framework, the predictive control of vehicle systems with stochastic optimal control algorithms is investigated, implemented and evaluated for two exemplary vehicle systems.