



## **Informatik-Kolloquium**

Freitag, den 02.08.2019, 14:00 Uhr,  
Seminarraum 105 (T1), Institut für Informatik (D5),  
Albrecht-von-Groddeck-Str. 7

### Forschungsprojekt:

## **A Generic Physics-Based Model for Simulation of Quadcopters**

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Quadcopters are an active research area for more than ten years. There are a lot of papers and thesis which focused on designing and controlling them, but almost none of them reports a comprehensive and generic physics-based model of a quadcopter. This motivated us to focus on modeling aspect. In this study we compiled a mathematical model for quadcopter flight simulation and implemented it in MATLAB/Simulink. Accordingly, this talk presents this mathematical model and introduces its implementation. It also includes basic plausibility test cases that provides minimum validation evidences for the model.