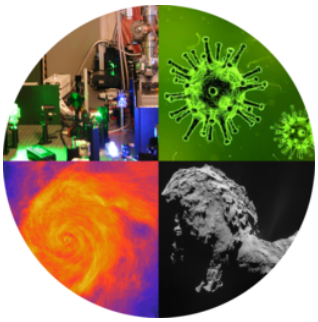

Münchner Physik-Kolloquium

Winter 2018/19

Recent developments in 3D computer vision

Prof. Dr. Daniel Cremers, *Fakultät für Informatik, TU München*

Monday, 29 October 2018, 17:15 h
Hörsaal H 030, Fakultät für Physik der LMU, Schellingstraße 4, München

The reconstruction of the 3D world from images is among the central challenges in computer vision. Starting in the 2000s, researchers have pioneered algorithms which can reconstruct camera motion and sparse feature-points in real-time. In my talk, I will introduce direct methods for camera tracking and 3D reconstruction which do not require feature point estimation, which exploit all available input data and which recover dense or semi-dense geometry rather than sparse point clouds. They lead to a drastic boost in precision and robustness. Furthermore, I will showcase some applications ranging from 3D photography and 3D television to autonomous navigation.

Student event: Meet the speaker

*We invite you to a **student-only** discussion-round with Prof. Dr. Daniel Cremers before his Munich Physics Colloquium talk.*

Be curious and feel free to ask any question.

Monday, 29 October 2018, 16:00 h
Room H 522 (5th floor), Fakultät für Physik der LMU, Schellingstraße 4, München