



Technische
Universität
Braunschweig



Vortrag im Gästeprogramm des GRK 2075

MUSEN Kolloquium im Sommersemester 2018

Assoc. Prof. Ciaran Simms

Trinity College Dublin

Biomechanics of vehicle pedestrian impacts: developments in injury prevention through accident data analysis, computational modelling and staged tests

Donnerstag, 21.06.2018, 16.45 Uhr

Okerhochhaus, Seminarraum EG

Pockelsstraße 3, 38106 Braunschweig

Protecting pedestrians in the event of a vehicle collision is a difficult engineering challenge, and pedestrian injury prevention has traditionally received far less attention than vehicle occupant protection. Nonetheless, a combination of field accident studies, staged tests using crash dummies and cadavers and computational modelling have led to a good generalised understanding of the relationship between pedestrian injury and vehicle design. The dominant factors of vehicle design for pedestrian injury are shape and stiffness, and optimising these is made challenging by the wide range of vehicle impact speeds and collision configurations. This talk will summarise developments in pedestrian safety and address ongoing challenges.

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