

Driving dynamics and sensor system

Area:	Simulation of a hybrid MBS/FEM vehicle dynamics model
Person in charge:	Lawrence Louis
Duration:	2007 – 2011

The direct measurement of the wheel forces opens up new opportunities in designing safety systems. In this context it is to be investigated if it is possible to derive the tire forces from sensors attached to the components of a wheel suspension. This aspect is investigated by constructing hybrid Multi-Body-FEM models. Based on the tyre forces determined, it is to be analysed if e.g. the sideslip angle estimation is better than using conventional systems.

