



DIPARTIMENTO DI INGEGNERIA
INDUSTRIALE E DELL'INFORMAZIONE

UNIVERSITÀ DEGLI STUDI DI PAVIA



Master in Design and Development of Vehicle Dynamics

Seminar

Advanced techniques for the physical modelling of tyre/road interaction phenomena

Flavio Farroni

Wednesday 29th 2017, h 13:30-17:30

Thursday 30th 2017, h 8:30-12:30

Palazzo Vistarino, Pavia, via Sant'Ennodio 26, first floor

Abstract

The physical modelling of tyre-road interaction phenomena and the employment of advanced simulation tools developed by VDU research group allow to calculate tyre temperature local distribution and the adhesive and hysteretic components of friction.

The cooperation between these instruments allows to predict the effects that the modifications of the tyre characteristics and working conditions induce on the overall vehicle performance.

Latest developments in such field highlighted the effects of the cited phenomena on the parameters of Pacejka's formulations, increasing the level of reliability of the simulations performed by real-time driving simulators.

Eng. Flavio Farroni PhD

Founder & CEO @ MegaRide – applied vehicle research – an UniNa spin-off company

Research Fellow @ Università degli Studi di Napoli Federico II – Vehicle Dynamics UniNa research group

Organizer

Prof. Carlo E. Rottenbacher (Coordinator of the Programme)

Seminar in English.

Free attendance.

For information, please contact: rottenbacher@unipv.it