

Avviso di Seminario

Vehicle Active Systems

Prof. Jan Kovanda

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Abstract: Introduction of the presentation (and discussion) is aimed to the main principles of the control theory applied to road vehicles from the mechanical engineering point of view. The overview of basic control strategies is presented in relation to the requirements of vehicle design.

As practical examples, popular semiactive and active suspension control strategies are presented, along with the basic system of ABS control loop, including hydraulic and mechanical systems.

Autopilot example is used to present advanced approach to the control system.

At the conclusion, a general discussion on the topics of vehicle sensors and system linearization, especially in the field of vehicle dynamics, will be proposed.

About the speaker:

Education:

1994 Associated professor of Transportation Systems and Technology

Thesis: Dynamic Simulation of Constrained Mechanical Systems in Vehicles

1989 Ph.D., Motor Vehicle Research Institute at the Czech Technical University, Prague

Thesis title: Dynamic Analysis of Vehicle Mechanisms, Mainly of Axles

1980 MSc., Czech Technical University of Prague

Faculty of Mechanical Engineering, specialization Applied Mechanics

M.S. - diploma work: Optimization of the wheel suspension and steering mechanism

Academic Experience:

2017 - now	Full Professor, University of West Bohemia, Faculty of Mechanical Engineering, RTI
1999 - 2016	Czech Technical University – Faculty of Transportation Sciences
1994 - 1999	Czech Technical University - Faculty of Mechanical Engineering
1980- 1993	Motor Vehicle Research Institute

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