



UNIVERSITÀ
DI TRENTO

Dipartimento di
Ingegneria Industriale

DII SEMINAR



26 SEPTEMBER 2025, 10:30 A.M.
ROOM B108, POLO FERRARI 2 – VIA SOMMARIVE 9, TRENTO

PERFORMANCE SIMULATIONS FOR MOTORSPORT APPLICATIONS

METHODS FOR SUPPORTING VEHICLE-DYNAMICS DECISIONS AND GENERATING TARGETS FOR VEHICLE DEVELOPMENT

The speech will explore the role of mathematical models and algorithms in the motorsport industry, with a particular focus on how they support performance evaluation and the definition of development targets. Attention will be given to the importance of realistic correlation through detailed physical modelling, followed by a classification of numerical methods applied to different vehicle-dynamics-related problems. Finally, the presentation will highlight state-of-the-art simulation tools for minimum-lap-time analysis, which account for dynamic effects to provide deeper insights into vehicle behaviour.

SPEAKERS:

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