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30" DIEF

"The use of artificial intelligence in the automotive industry: products and processes"
Marco Fainello

Cycle of Seminars on
Artificial Intelligence for Automotive

AI for AUTOMOTIVE

The courses of "Neural Network Computing, AI and Machine Learning for Automotive" and "Learning Algorithms for Smart Intelligent Systems" for Master Students of Computer Engineering, Electronics Engineering (UNIMORE) and Advanced Automotive Electronic Engineering (AAEE) of MUNER in a.a. 2020-2021 organize a cycle of seminars about the challenges of AI technologies in Automotive and Autonomous systems. For information please contact proff. Rita Cucchiara and Lorenzo Baraldi (rita.cucchiara@unimore.it lorenzo.baraldi@unimore.it)

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"The use of artificial intelligence in the automotive industry: products and processes", Marco Fainello
2nd December 2020, 8:30 a.m.

Abstract
In the automotive industry, AI is used for well-known image recognition applications that allow you to create functions such as lane keeping and lane departure warning. It has also been used for several years in lesser known aspects, such as stability controls, in recognizing the driver's ability to adapt support systems, to improve energy management in electric or hybrid propulsion systems. Not only are new applications in preparation, but Machine Learning is increasingly being used in the design and construction processes of cars, in particular in improving the use of simulators with software, hardware and human in the loop. Let's see how.

Marco Fainello, mechanical engineer, has been involved in cars for thirty years, especially high-performance and racing cars. He has been part of the Scuderia Ferrari for over 20 years, contributing to the victories of 8 constructors 'and 6 drivers' titles in Formula 1 and 3 GT world championships. For several years he has been dealing with the application of artificial intelligence to industry as executive director of Addfor; in collaboration with Danisi Engineering, of which he is technical director, develops applications of new technologies for the automotive industry.He is a member of the Mechanical Engineering Advisory Board of the Politecnico di Milano and technical referent of the Smart Mobility Agency, founded in Modena to support the MASA-Modena Automotive Smart Area project and the similar GammaP project with the Turin Polytechnic.

Wednesday, 2nd December 2020, 8:30 a.m.
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