



# UPM International Summer School

## Connected and autonomous driving



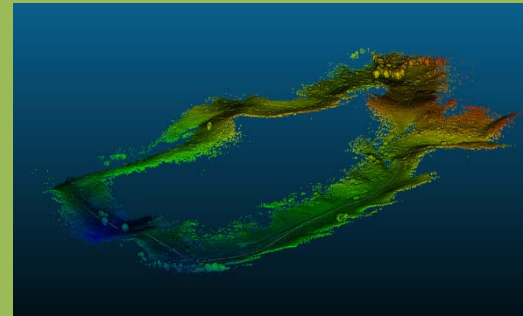
INSIA, 8, 9 & 12 July 2019  
Director: Prof. Felipe Jiménez

The purpose of this course is to introduce the architecture and main elements that make connected and autonomous driving possible. Furthermore, potential effects are discussed, as well as some real cases and scenarios.

Students: Bachelor

Pre-requisites: None

ECTS: 1 (10 class hours)





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### Syllabus

- MODULE 1:
- I. Autonomous driving and architecture of autonomous vehicles
  - II. Perception and decision-making on autonomous vehicles

- MODULE 2:
- I. Communications for connected driving. V2X communications
  - II. Demo with autonomous vehicles and different control strategies

- MODULE 3: Description of real experiences of connected and autonomous driving

Rodrigo Castiñeira  
INDRA

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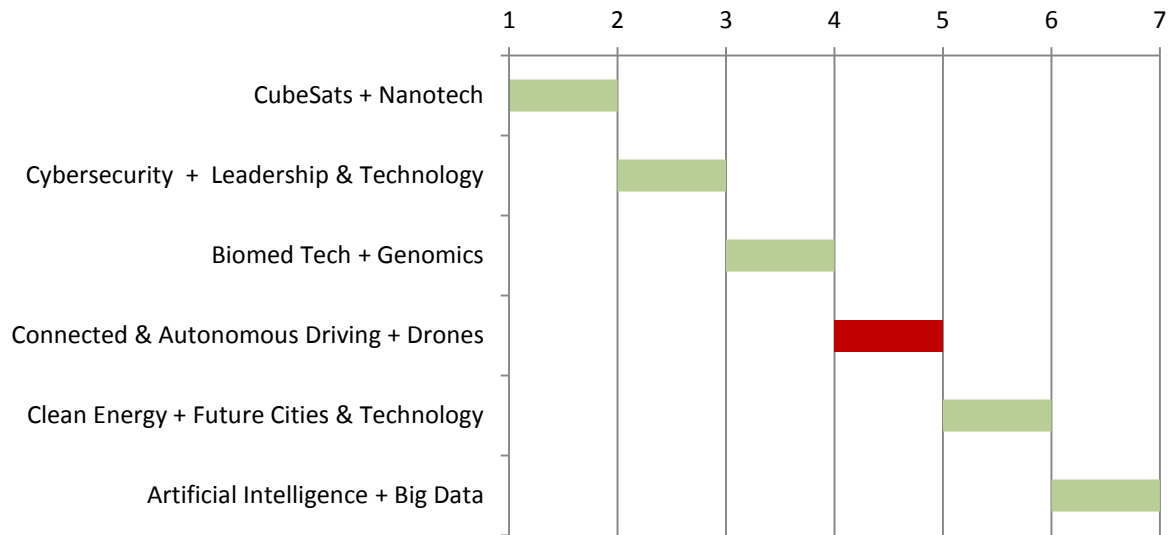




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### Schedule



Week	Monday	Tuesday	Wednesday	Thursday	Friday
4	Lecture I Lecture II	Lecture I Demo			Industry Talk



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### Faculty



**Felipe Jimenez** is full professor at UPM and Head of the Intelligent Systems Unit of INSIA-UPM. He is leading several national and international research projects in the field of Intelligent Transport Systems, connected and autonomous driving and assistance systems. He is author and co-author of six books, more than 15 book chapters and 70 journal papers

**Rodrigo Castiñeira** is Technical Leader in the company Indra and he is involved in research project in the field of intelligent transportation, focusing on communications between vehicles, infrastructure and traffic control centres.

