



POLITECNICO  
DI TORINO



Dipartimento di  
Scienze Matematiche  
G. L. Lagrange

ECCELLENZA 2018 • 2022

Thursday **September 19, 2019** at 14:30

Politecnico di Torino, DISMA, Aula Buzano (third floor)

## **Richard PATES**

Researcher at Lund University

# **Modular control system design for platooning problems**

Prof. Giacomo Como introduces the seminar

### **Abstract**

The modular approach to control system design aims to design control systems for individual "components" in such a way that performance is maintained even as they are interconnected. It offers a simple way to design for performance that provides provable guarantees that hold even in extremely large systems.

In this talk, Dr. Pates will illustrate a modular design method tailored specifically for the problem of organising a set of vehicles into a platoon.

### **Biography**

Richard Pates received the engineering and PhD degrees in 2009 and 2014 respectively, both from the University of Cambridge. His thesis, titled "Scalable design rules for heterogeneous networks", was done under the supervision of Glenn Vinnicombe. Since leaving Cambridge, he have spent 4 years as a postdoc in Lund with Anders Rantzer.

*Save the date for the next event: **October 1, 2019***

*More info on [www.polito.it/disma-excellence](http://www.polito.it/disma-excellence)*