



UNIVERSITÀ  
DI TRENTO

Dipartimento di  
Ingegneria Industriale

DII

Seminar

## Optimal Vaccination Strategies for Epidemic Containment

November 14th 2023, h. 9:30

Seminar room, Polo Ferrari 2, Via Sommarive 9, Trento

**Speaker: Mario Zanon (IMT Lucca)**

Infectious diseases are one of the major causes of death worldwide. Optimal control delivers methods that are able to minimize the life losses and economic damages of an epidemic, especially when deployed in combination with spatially explicit models that are able to describe the epidemic sufficiently accurately. Unfortunately, the prohibitive computational complexity of standard implementations has hindered the widespread use of optimal control for large-scale models such as spatially explicit epidemic models. In this seminar, we will present how these difficulties can be overcome so as to make the problem tractable, using as a test case a hypothetical vaccination campaign against COVID-19 in Italy.

### Info

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