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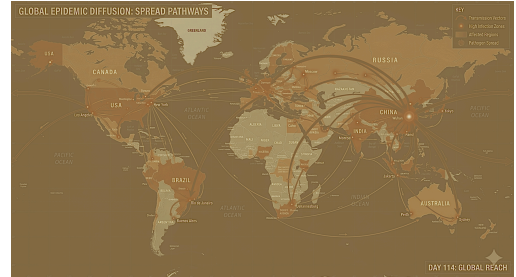
DiST
DIPARTIMENTO
DI SCIENZE
E INNOVAZIONE
TECNOLOGICA

SEMINARI RICERCA E FORMAZIONE

Martedì 09 Giugno 2026

ore 11:00-13:00

SALA SEMINARI INFORMATICA (C192)



Fairness in computational infectious disease modeling: improving epidemic models to reduce health inequalities

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Infectious disease models are increasingly used to guide public health policy, yet their ability to account for underlying socioeconomic inequalities remains poorly understood. Most modelling frameworks are evaluated primarily through aggregate predictive accuracy, despite evidence that epidemic risk, exposure, and intervention outcomes are strongly stratified across populations. In this talk, I will discuss the emerging concept of fairness in computational epidemiology, focusing on how fairness can be defined, quantified, and incorporated into epidemic models. I will then discuss recent methodological advances for building equity-aware models through the integration of socioeconomic dimensions into transmission dynamics and intervention design. Finally, I will outline open challenges at the intersection of epidemiological modelling, machine learning, and public health policy.

Il seminario è promosso dal Prof. Giancarlo Ruffo

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