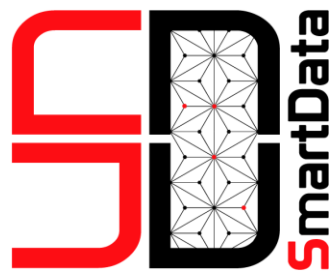




Politecnico
di Torino

SmartData@PoliTO



April 6th, 2022, 5:00 PM CEST

SmartTalk: Covivio



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Understanding river floods from data:
help me to do it smartly

ABSTRACT

Flood-related economic losses have increased dramatically over the past decades in most parts of the world, and are expected to increase in the future due to climate dynamics and increasing exposure. From a practical perspective, it is of interest to estimate the probability of river flood events happening at a certain location or region. From a theoretical perspective, it is of interest to understand how the flood hazard depends on the causal mechanisms and dominant processes in the atmosphere, catchment, and river systems. For both perspectives, information is extracted from data at different spatial scales, from a few square kilometers to continents, and temporal scales, from events of a few hours to centuries. In this talk, I will present to the SmartData community examples from my own research with the aim of getting hints on how novel techniques could maximise the amount of information retrieved from hydrologic data.

Smart
Talks
Season 2