SG SEMINAR SERIES

Florence Center for Data Science Special Guest Seminar Series

Florence Center for Data Science is happy to present the new special guest seminar of the Series on **February 28th 2022**, from **2.30 - 3.30 PM**

Click on the link below to participate online:
https://us02web.zoom.us/webinar/register/WN_O2wv8qTvRBWYKcyZw2qOrQ

SPEAKER: **Riccardo Michielan** - University of Twente

TITLE: "Is there geometry in real networks?"

ABSTRACT: In the past decade, many geometric network models have been developed, assuming that each vertex is associated a position in some underlying topologic space. Geometric models formalize the idea that similar vertices are naturally likely to connect. Moreover, these models are able reproduce many properties which are commonly observed in real networks. On the other hand, it is not always possible to infer the presence of geometry in real networks, if the edge connections are the only observables. The aim of this talk is to formalize a simple statistic which counts weighted triangles: this statistic discounts the triangles that are almost surely not caused by geometry. Then, using weighted triangles we will be able to elaborate a robust technique to distinguish whether real networks are embedded in a geometric space or not.