



Working Group on Statistical Learning Seminar

Title: Bayesian dynamic network actor models with application to South Korean COVID-19 patient movement data

Speaker: Antonio Mario Arrizza (University of Bologna)

Date: Mon 30th November 2020 at 12:00PM

Location: Online

Abstract: The relational event data modelling framework is an increasingly popular approach to the analysis of relational dynamics and has been adopted by network scientists in a wide range of applications. Motivated by the recent COVID-19 pandemic, this article introduces Bayesian dynamic network actor models for the analysis of infected individuals movements in South Korea during the first three months of 2020. This fully probabilistic modelling approach allows to identify the important relational features explaining where and when new movement ties are established and where these ties are directed. The dataset displays patient movements at an early stage of the pandemic, thus providing interesting insights about the spread of the disease in the Asian country.

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