Systems and Control Group Seminar

25 June, 2024, 11:15

Mathematics Department, University of Aveiro

Room Sousa Pinto (11.2.6)

Epidemiological models in complex networks

Javier López Pedrares

Galician Center for Mathematical Research and Technology (CITMAga), and
Group of Nonlinear Physics, Universidade de Santiago de Compostela,
Santiago de Compostela, Spain

javierlopez.pedrares@usc.e

Abstract

Today, the networks of interaction between people have changed drastically compared to past centuries. Humans are the main hosts of viruses and we are connected forming complex networks. In this talk we will focus on describing several epidemiological models coupled to complex networks that allow us to study pandemic behavior from two perspectives: at the "intrahost" level, as viruses evolve within our organism; and at the interaction network level, as the topology of the network modifies the pandemic state.