



Webinar

Systems and Control Group - CIDMA

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Departamento de Matemática, Universidade de Aveiro

Optimal control applied to dengue disease prevention:
economic burden and role of communication

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Abstract

Dengue fever is a vector-borne disease that is widely spread. The associated costs with the disease comprise prevention and treatment. Here, the focus is on prevention. Two epidemiological models are presented with human and mosquito compartments, modeling the interaction of dengue disease. The first model performs the impact of adopting individual behaviors to reduce mosquito bites - avoiding the disease's transmission - and their associated costs. The second model designs the power of effective communication by Health authorities related to the use of personal protection.

Online session: <https://videoconf-colibri.zoom.us/j/86821172545>

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