Laboratório de Computação e Visualização Científica

2020/2021

Trabalho do módulo 4: escolha dos temas

1. **João Vieira**
   SEIRD epidemic model for COVID-19
   `https://doi.org/10.1016/j.jeconom.2020.07.038`

2. **Marcos Mendes**
   A SEIR MODEL FOR CONTROL OF INFECTIOUS DISEASES WITH CONSTRAINTS
   artigo "seirMRPaims.pdf" do E-learning
   `doi:10.3934/mbe.2014.11.761`

3. **Francisco Resende**
   Monitoring Italian COVID-19 spread by a forced SEIRD model
   `https://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0237417`

4. **Joana Martins**
   Modelo apresentado na secç ao 3.1 (Incorporating drug therapy) do artigo In-host modeling.
   Stanca M. Ciupe, Jane M. Heffernan, In-host modeling, Infectious Disease Modelling 2 (2017).

5. **Carlota Moreira** *A Modified SIRD Model to Study the Evolution of theCOVID-19 Pandemic in Spain*
   `https://www.mdpi.com/2073-8994/13/4/723`

6. **José Pinto** *A Modified SIRD Model to Study the Evolution of theCOVID-19 Pandemic in Spain*
   `https://www.mdpi.com/2073-8994/13/4/723`

7. **Dmytro Ostapchuk**
   An epidemiological MSEIR model described by the Caputo fractionalderivative
   `https://doi.org/10.1007/s40435-018-0492-1`

8. **Yurii Pitenko**

   Salvo combat model for naval warfare

   `https://en.wikipedia.org/wiki/Salvo_combat_model`

9. **Rúben Rodrigues**

   Optimal control of the COVID-19 pandemic: controlled sanitary deconfnement in Portugal

   `https://www.nature.com/articles/s41598-021-83075-6`

10. **Bruna Lopes**

    Modelo apresentado na secç ao 3.2.3 (Antibody mediated immune responses) do artigo In-host modeling.

    Stanca M. Ciupe, Jane M. Heffernan, In-host modeling, Infectious Disease Modelling 2 (2017).

11. **Pedro Silva**

    Modeling and optimal control of HIV/AIDS prevention through PrEP

12. **Rodrigo Carvalho**

    Optimal control of HIV treatment and immunotherapy combination with state and control delays