

عنوان مقاله:

A numerical approach to solve the optimal control problem of coronavirus mathematical model

محل انتشار:

اولین کنفرانس ملی پژوهش های کاربردی در علوم پایه (ریاضی، شیمی و فیزیک) (سال: 1401)

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خلاصه مقاله:

The spread of COVID-19 started in the rst quarter of ۲۰۲۰ has caused a worldwide pandemic asdeclared byWorld Health Organization (WHO). Many factors, such as late diagnosis and limited resources,including hospital and health services, as well as the anonymity of the virus, led to its widespread. In thispaper, we introduce a numerical approach based on Legendre wavelets, its derivative operational matrix,and the collocation approach for solving the optimal (control COVID-۱۹ transmission model which nallyled to a nonlinear programming problem (NLP

کلمات کلیدی:

COVID-۱۹, Optimal control, Collocation method, Legendre wavelets, Derivative operational matrix

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