عنوان مقاله:

A radial basis function method for solving distributed elliptic optimal control problem

محل انتشار:

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خلاصه مقاله:

In this paper, we apply the theory of radial basis function method for numerical approximation of distributed elliptic optimal control problem. We first obtain the optimality condition then discretize them by using radial basis functions (RBF). By making use of collocation type method, the original optimal control problem is reduced to the linear systems of equations. The numerical simulation are given to illustrate the effectiveness of the proposed numerical approximation method

کلمات کلیدی:

optimal control problem, elliptic equation, radial basis function, collocation method

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