

## عنوان مقاله:

Reproducing Kernel Hilbert Space(RKHS) method for solving singular perturbed initial value problem

## محل انتشار:

مجله نظریه تقریب و کاربرد, دوره 10, شماره 2 (سال: 1395)

تعداد صفحات اصل مقاله: 12

## نویسندگان:

Saeid Abbasbandy - *Department of Mathematics, Imam Khomeini International University, Qazvin, ۳۴۱۴۹-۱۶۸۱۸, Iran*

Mohammad Aslefallah - *Department of Mathematics, Imam Khomeini International University, Qazvin, ۳۴۱۴۹-۱۶۸۱۸, Iran*

## خلاصه مقاله:

In this paper, a numerical scheme for solving singular initial/boundary value problems presented. By applying the reproducing kernel Hilbert space method (RKHS) for solving these problems, this method obtained to approximated solution. Numerical examples are given to demonstrate the accuracy of the present method. The result obtained by the method and the exact solution are found to be in good agreement with each other and it is noted that our method is of high significance. We compare our results with other paper. The comparison of the results with exact ones is made to confirm the validity and efficiency.

## کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1726734>

