

國立中山大學應用數學系

學術演講

講者：陳清祥 (University of Southern Mississippi)

講題：Training RBF neural networks for the solution of elliptic boundary value problems

時間：2024/05/23 (Thursday) 14:10~15:00

地點：理 SC 4009-1 教室

茶會：13:30

Abstract

We propose a radial basis function (RBF) neural network method for solving two- and three-dimensional second and fourth order elliptic boundary value problems (BVPs). The neural network in question is trained by minimizing a nonlinear least squares functional, thus determining the optimal values of the various RBF parameters involved. The functional minimization is carried out using standard MATLAB software efficiently. Several numerical experiments are presented to demonstrate the efficacy of the proposed method.

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