

Performance of HSAGE method with seikkala derivative for 2-D fuzzy poisson equation

Abstract

In this study, iterative methods particularly families of Alternating Group Explicit (AGE) methods are used to solve system of linear equations generated from the discretization of two-point fuzzy boundary value problems (FBVPs). The formulation and implementation of the Full-Sweep AGE (FSAGE) and Half-Sweep AGE (HSAGE) methods were also presented. Then numerical experiments are carried out onto two example problems to verify the effectiveness of the methods.