Existence of Positive Solutions for Second-Order Difference Equation with Discrete Boundary Value Problem

Authors : Thanin Sitthiwirattham and Jiraporn Reunsumrit

Abstract: We study the existence of positive solutions to the three points difference summation boundary value problem. We show the existence of at least one positive solution if f is either superlinear or sublinear by applying the fixed point theorem due to Krasnoselskii in cones.

Keywords : positive solution, boundary value problem, fixed point theorem, cone

Conference Title : ICMSCS 2014 : International Conference on Mathematics, Statistics and Computational Sciences **Conference Location :** Tokyo, Japan

Conference Dates : May 29-30, 2014