

Speakers: Abdualrazaq Sanbo and Salah Alsahafi

Title: Boundedness of Solutions in Volterra Systems of Difference Equations

Abstract: We use Lyapunov functionals combined with the z-transform and obtain boundedness results regarding the solutions of the nonlinear Volterra system of difference equations

$$y(n+1) = f(y(n)) + \sum_{s=0}^n C(n,s)h(y(s)) + g(n)$$