

1011-39-57 **Rigoberto Medina*** (rmedina@ulagos.cl), Depto. Ciencias Exactas, Universidad de Los Lagos, Casilla 933, Osorno, Chile, X Osorno, Chile, and **Michael Gil'** (gilmi@cs.bgu.ac.il). *Absolute Stability of Nonlinear Discrete Systems*.

We will be concerned with the absolute stability of nonlinear difference equations. In particular, it is proved that equations with positive Green's functions satisfy the generalized Aizerman's Conjecture. We will also discuss the input-output version of the Aizerman Problem for discrete-time systems. (Received August 09, 2005)