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Vlajko L Kocic* (vkocic@xula.edu), Mathematics Department, Xavier University of Louisiana,
1 Drexel Dr., New Orleans, LA 70125. *Dynamics of certain classes of nonlinear discontinuous
difference equations*. Preliminary report.

Dynamics of nonlinear difference equations of the form

$$x_{n+1} = f(x_n), n = 0, 1, \dots$$

where the function f has jump discontinuities has been studied. In particular we address the existence of invariant intervals, oscillation with semicycles, existence and stability of periodic orbits. (Received September 08, 2016)