1042-39-54 **Senada Kalabusic*** (senadak@yahoo.com), Department of Mathematics, University of Rhode Island, Kingston, RI 02881. *Global Attractivity for Difference Equations in Partially Ordered Metric Spaces.* Preliminary report.

Let X be a partially ordered set and d be a metric on X such that $(X; d)$ is a complete metric space. We prove a convergence result for difference equation $x_{n+1} = F(x_n, x_{n-1}),\ n = 2, 3, \ldots$ where the map $F : X \times X \to X$ satisfies certain monotonicity conditions. Our results have some applications to difference equations in $\mathbb{R}^n$. (Received August 04, 2008)