Global Dynamics of Triangular maps.

We consider continuous triangular maps on $I^N$, where $I$ is a compact interval in the Euclidean space $\mathbb{R}$. It is shown that every orbit converges to a fixed point if and only if there are no periodic orbit of prime period 2. As a consequence we obtain the following global stability result: if there are no periodic orbits of prime period 2 and the triangular map has a unique fixed point, then the fixed point is globally asymptotically stable. (Received September 08, 2013)