

Engineering chimera patterns in networks using heterogeneous delays

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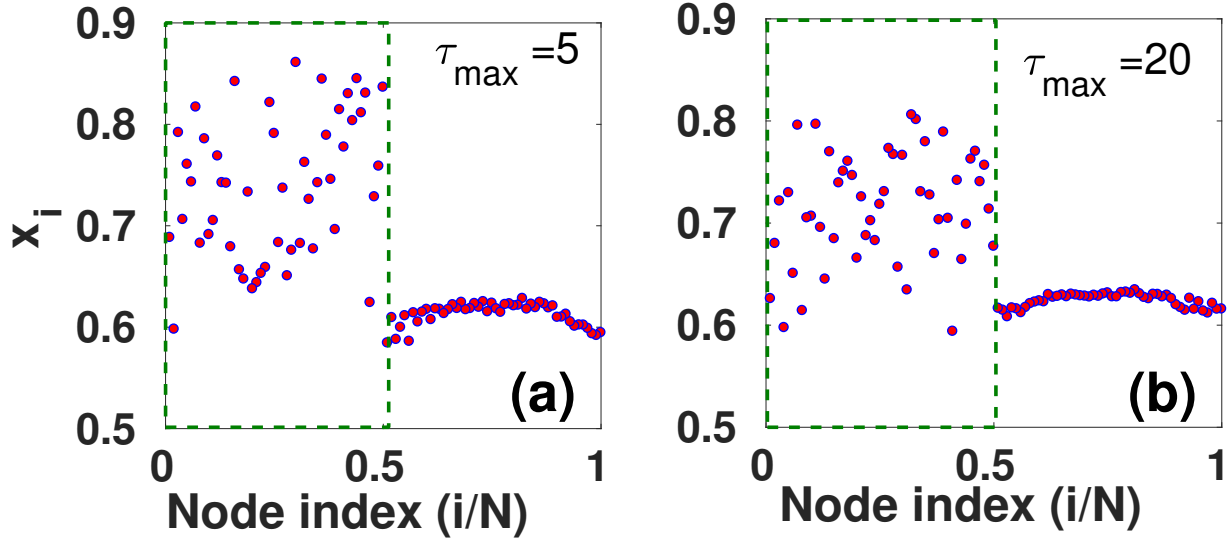


Figure 1: (Color online) Snapshots of the dynamical state of the regular network for different τ_{max} values with (a) being $\tau_{max}=5$, (b) being $\tau_{max}=20$. The boxed nodes (\square) are delayed with delays chosen randomly between 0 and τ_{max} ($0 \leq \tau \leq \tau_{max}$). Note that the choice of τ_{max} value does not have on the designed chimera state as visible for both (a) & (b). Other Parameters are $\varepsilon = 0.65$, network size(N) = 100, node degree (k) = 64.