Self-organized Criticality in a Modified Evolution Model on Generalized Barabási-Albert Scale-Free Networks

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Abstract: A modified evolution model of self-organized criticality on generalized Barabási-Albert (GBA) scale-free networks is investigated. In our model, we find that spatial and temporal correlations exhibit critical behaviors. More importantly, these critical behaviors change with the parameter b, which weights the distance in comparison with the degree in the GBA network evolution.

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