Nonlinear Sciences > Adaptation and Self-Organizing Systems

A Model of Opinion Dynamics with Bounded Confidence and Noise

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This paper introduces a new model of continuous opinion dynamics with random noise. The model belongs to the broad class of so called bounded confidence models. It differs from other popular bounded confidence models by the update rule, since it is intended to describe how the single person can influence at the same time a group of several listeners. Moreover, opinion noise is introduced to the model. Due to this noise, in some specific cases, spontaneous transitions between two states with a different number of large opinion clusters occur. Detailed analysis of these transitions is provided, with MC simulations and ME numerical integration analysis.

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