

# **Hegselmann-Krause model of opinions dynamics of interacting agents with the random noises**

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We consider the Hegselmann-Krause bounded confidence model of opinion dynamics (the HK-model). We assume that the opinion of an agent is influenced not only by other agents, but also by external random noises. The case of independent normally distributed external noises is considered.

Computer modeling of deterministic and stochastic models was carried out. The properties of the models were analyzed and the difference in their behavior was revealed. We define of a confidence cluster for the stochastic model. We analyze the dependence of the number of clusters on the parameters of the problem such as the initial profile of opinions, the level of confidence, the variance of noise.