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Modelling the cooperative and competitive contagions in online social networks

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1. This paper proposes a novel information diffusion model (IS_1S_2R), to model the interactive diffusion of two different pieces of information on the online social networks, by splitting the agents into four parts-(Ignorant-Spreader I-Spreader II-Stifler).
2. The proposed IS_1S_2R model extends the interactive diffusion to be both "cooperative" and "competitive", by different setting of the parameters, and models the interactive diffusion of the k_m community of the network, since online social network is scale-free.
3. Empirical studies based on a real data crawled from "Weibo", the most popular micro-blogging community in China, reveal that the parameters have different effect on the cooperative diffusion process and the competitive diffusion process, which can provide important insights in a broad range of settings.

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