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From relation to interactions: a case study in Reddit website

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Elucidating what factors are salient in emerging interactions in social networks is still an open question. Thus, we develop an agent-based model for generating interactions in signed networks. The ABMs, based on the Activity Driven Network model, use signed relations between agents to reproduce their interaction frequencies and crucial network distributions. The calibration and validation step is performed on the Reddit Hyperlink network, where agents are represented by subreddits (communities), and links by hyperlinks between communities. We devise a profound methodology to assess the performance of the models. The proposed ABM successfully reproduces basic node-link and higher-order statistics of the empirical dataset.

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