

INFLUENCE OF TIME DELAYS ON THE DYNAMICS OF RELATIONS BETWEEN OPTIMISTS AND PESSIMISTS

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We present a model of interactions between two actors in the context of their internal optimism and pessimism. Delays in inertial components and influence functions are introduced and their influence on the system dynamics is investigated. The model we study has been proposed by Rinaldi and Gragnani [1] in the context of romantic relationships, while Liebovitch *et al.* [2] proposed the same mathematical structure for the description of single meeting between two actors and this is the same context we consider. In [3] we analysed the role of internal optimism and pessimism into the relations between two actors. On the other hand, the idea of including time delays into the model proposed by Rinaldi and Gragnani was described in our paper [4]. Now, we present the results concerning influence of time delays into the model dynamics in the context of optimism and pessimism. We focus on the case that has not been analysed before, that is two different delays present in the description of two actors interactions. Presented results come from the MsC thesis of Natalia Jankowska and Katarzyna Cytlak [5].

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