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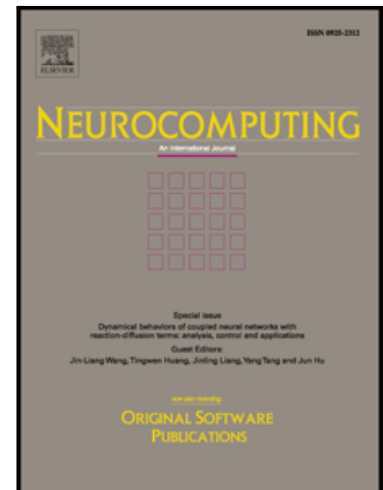
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Introducing Dynamism in Emotional Agent Societies

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Abstract

This paper presents the development of a dynamic emotional model to be employed in agent societies. The proposed model is based on the *PAD* emotional model and allows the representation of the emotional contagion phenomena of a heterogeneous group of agents that are capable of express emotions. The model is mainly based on three elements: personality, empathy and affinity. These elements allow the characterization of each individual, causing them susceptible to vary in some degree the emotions of other individuals. Additionally, the model allows defining of the social emotion of this group of agents.

Keywords: Multi-agent systems, emotion recognition, neural networks

1. Introduction

To attain a person's intentions it is essential to grasp the psychological and the physical aspects. Disregarding one of these aspects may lead to unreliable results [1]. The physiological representation of decisions is a very powerful way to determine if a person is being honest or not. For instance, a person can be actively lying but the physical response may tell otherwise. Although there are ways to overcome this situation where the person is able to physically control the display of emotions most of the people does not [2].

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