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A Computational Model of Human Emotions

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Abstract*

AI and Cognitive Science have largely ignored the modeling of emotions and their influence on cognition. Yet clinical psychologists suggest that emotions are of all factors the most important for driving people's motivations, that is, in establishing goals and intentions. Emotions and emotional reactions are instrumental in understanding what problems people solve. This paper describes an implementation of a model of human emotions. The system we have built is a considerable extension of the model described by [Ortony, Clore, and Collins, 1988]. The system consists of emotion detectors for almost 30 emotions related to events, agents and objects; emotional intensities are also computed. An extensive simulation has been constructed to demonstrate the operation of the system.

*This manuscript did not conform to camera ready copy specifications and therefore was not included in its entirety.