

# **Humanoids That Can Feel the Mood: Realization of Smooth Communications between Humans and Robots Using “Tweets” Produced by Talking Social Space**

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## **Abstract**

In this paper, we propose a concept of Talking Social Space (TSS) which is composed of “tweets” produced by agentized social spaces. These spaces can merge and separate autonomously exchanging “tweets” between them. We describe the mechanism of the TSS system, for example, the method for implementation and the function of the system, especially the method of generating “tweets”. Moreover, we apply the TSS system to a humanoid robot for realizing smooth communication between humans and robots. To put it concretely, we show that the robot mounted the TSS system can feel the mood through means of reading “tweets” from the social spaces formed by humans. In consequence, the robot can avoid an invasion on the social spaces as if it has sociality. Finally, we discuss the validity and availability of our proposed concept of TSS through analysis of the records of interaction between humans and robots. The TSS system is addressed as an example of preliminary implementation of our project “Membrane of Social Communications”.