

**6<sup>th</sup> World Convention on****ROBOTS, AUTONOMOUS VEHICLES AND DEEP LEARNING****September 10-11, 2018 Singapore****Companion bot****Suranjana Trivedy**

GATE IIT Training Institute, India

The aim of the project is to build an intelligent naturally dialog-able machine, which can talk with the depressed and lonely older people and can finally become their true companion. Specifically, the research goal was to build an automatic system to understand multimodal emotion, including facial expressions, speech tone and the linguistic emotions. For that purpose we used semi-supervised learning methods, standard Natural Language Processing (NLP) (uni-gram) and Information Retrieval (IR) Term-Frequency Inverse-Document-Frequency (TF-IDF) techniques to analyze emotion from text. We have extracted emotion from facial images. Overall aim is to create intelligent companion bot.

**Biography**

Suranjana Trivedy is currently a Faculty in GATE IIT Training Institute, India. She was Research Scholar in IIIT Hyderabad. Her current research interests are in the area of artificial intelligence, building intelligent system, robotics, autonomous vehicle and UAV.

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