**Title: How to recognize a human action faster and more accurately?**

*by*

Prof. Kot Chichung, Alex,

Fellow of IEEE,

Nanyang Technological University, Singapore

Abstract

In AI, action recognition is a key application. It helps in retrieving images or video based on actions like sports, fighting or hand signals. In the autonomous driving environment, it becomes very important in recognizing the hand signals from traffic police. In this research, we propose trust gates in the spatio-temporal LSTM network to improve the action recognition performance. We also propose global context-aware attention network to further improve the performance. Scale selection and feature boosting networks are also introduce to show the effectiveness in action recognition.