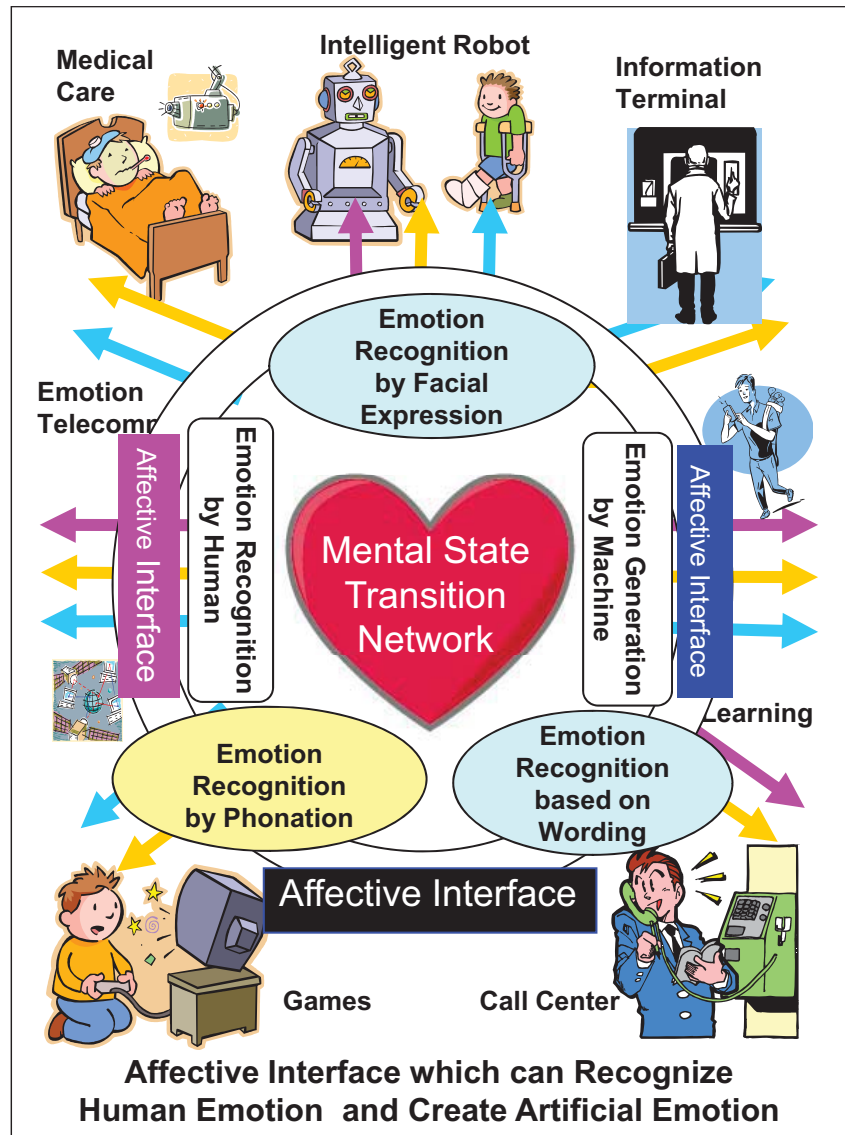


Constructing Evolutionary Robot to Have Human IQ and EQ

Professor Fuji Ren



Content:

Information recognition and extraction of human emotions are necessary for machines to communicate smoothly with humans. We focus on human psychological characteristics to develop general-purpose agents that can recognize human emotion and create machine emotion. We are constructing a new evolutionary robot to have human IQ and EQ based on Advanced Intelligence and Mental State Transition Network, and we are applying it to some applications shown in the left figure. We have built an emotional robot (the avatar of Prof. Ren) and succeeded in developing novel technologies as follows:

- Emotion Corpus Ren-CMCps
- Method to recognize human emotion based on phonation, facial expressions, and speech usage
- Recovery support and detection of depression
- Nursing care robot and ability support robot
- Cloud robot and robot school

Keywords: Affective Computing, Language Understanding, Intelligent Robotics

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