

Can you beat TOROBO-kun?

 \sim Evaluating the naturalness of sentences using language models \sim

Abstract

We are participating in the "Can a robot get into the University of Tokyo?" project of the National Institute of Informatics, focusing on how to tackle English exams. Succeeding on English exams requires not only English knowledge but also "common sense knowledge" that humans take for granted but computers do not possess. For example, there are problems that require estimation of human emotion and the causal relationships of events. With our common sense reasoning techniques developed through research on dialogue and machine translation systems, we have for the first time achieved a higher score than the average human score on a Mock Center Test.

Objective: Auto-answering on English exams

•"Common sense knowledge" required to solve English exam questions

•Key point: How to model such common sense?



Related works

[1] Ryuichiro Higashinaka, Hiroaki Sugiyama, Hideki Isozaki, Genichiro Kikui, Kohji Dohsaka, Hirotoshi Taira, Yasuhiro Minami, "Taking the English exam in the National Center Test for University Admissions", in Proc. t he 21st Annual Meeting of The Association for Natural Language Processing (NLP2015), 2015. (in Japanese)

[2] Ryuichiro Higashinaka, Hiroaki Sugiyama, Hideki Isozaki, Genichiro Kikui, Kohji Dohsaka, Hirotoshi Taira, Yasuhiro Minami,

"Taking the English exam for the "Can a robot get into the University of Tokyo?" project?", NTT Technical Review, 2015. (to appear)

Contact

Hiroaki Sugiyama Interaction Research Group, Innovative Information Laboratory E-mail : sugiyama.hiroaki(at)lab.ntt.co.jp

