



Semantic Parsing for Natural Language Reasoning and Question Answering

Dr Pascual Martínez-Gómez
Artificial Intelligence Research Center (AIRC)
National Institute of Advanced Industrial Science and
Technology (AIST), Japan

April 13, 2018 (Friday)
Room 205, Runme Shaw Building, HKU
12:45 – 14:00
Chair: Dr Xiao Hu

Abstract:

Semantic Parsing is a valuable but elusive technology in the realm of Natural Language Processing. If accomplished, semantic parsing allows to represent the meaning of text using precise logical formulas that elicit concepts, their relations and quantifications. In this talk, I will distinguish between grounded and ungrounded semantic parsing. With the former, we gain the capability to produce natural language interfaces to knowledge bases and execution; with the latter, we are capable of reasoning in a deductive fashion. I will present our approaches to semantic parsing and their application to Natural Language Reasoning and Question Answering.

About the speaker:

Pascual Martínez-Gómez is a research scientist at the Artificial Intelligence Research Center (AIRC) in the National Institute of Advanced Industrial Science and Technology (AIST), Tokyo, Japan. Before joining AIRC-AIST, he was assistant professor at Ochanomizu University (Japan) after completing his PhD at The University of Tokyo. Pascual is interested in natural language processing and intelligent user interfaces, including semantics, reasoning, question answering, machine translation (product and process), eye-tracking and adaptive systems.

For enquiries, please contact the Office of Research at 3917 8254.