

# Assignment #5

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정영준

The lecture's topic is Natural Language Processing (NLP). Natural Language Processing is letting computer to pretend to understand person's languages. Computer seemed to get speaker's intention and toxic points in sentences. The name of Assistant Professor Bak JinYeong's lab is HLI (Human Language Intelligence). HLI contains generating human like response, creating keywords from tweets, evaluating response like human, identifying leader's final decision, identifying itching behaviors and generating molecule for medicine. Human has wanted to communicate with computers. From 1950 to 2011 now, many failure or little success have happened. Automation of natural languages process is 1) Analysis: NL -> Representation(R), 2) Generation: R -> NL, 3) Acquisition of R from knowledge and data. I have written about Turing Test in a former assignment. The Turing Test can distinguish that computer can understand human sayings. Dialog System is the task of generating a response for making a conversation with human. Actually, there are no perfect models that can understand human language now. Information extraction is the task of extracting structured information from unstructured documents. Named Entity recognition contains tasks that finding entities in text, classifying entities in text. The main reason of complexity is even we do not know how to represent the knowledge a human has. What is the real "meaning" of the words? NLP has many challenging points to break. A.I model can learn bias like that "woman cooking" is more appropriate words than "man cooking". Korea startup company released A.I friends in recent. But governments let them to stop their service. Because A.I model had learned rude, humiliating sentences. She hates disabled people and LGBT. Although A.I model learn from human's data, it's important to preprocess text data for preventing situation like this.