

演講公告

Beyond end-to-end learning: Dialog system, sentence generation, and conversation analysis for automatic mental disorder diagnosis

Date: Monday, September 30, 2019

Time: 14:00 ~ 15:00

Room: EC321 (工程三館321)

Speaker: Prof. Yoshinobu Kano



Abstract

End-to-end learning with deep learning techniques have been successfully applied to many research areas including NLP. However, there are three critical aspects when we consider our approaches for specific issues: available data size, external knowledge requirements, and accountability. Medical NLP tends to suffer from the critical aspects above. I first overview a couple of related NLP projects that I organize, such as sentence generation, dialog system and legal NLP, to show what sort of issues exist regarding the three aspects. Then I introduce NLP applications in the medical/health fields discussing research issues for current and future works: automatic diagnosis support for mental diseases and developmental disorders from conversation records, and text mining system for the EHRs (Electronic Health Records).

Biography

Dr. Yoshinobu Kano is an associate professor at the Faculty of Informatics, Shizuoka University, Japan. He received BS in physics (2001), MSc (2003) and PhD (2011) in information science and technology from the University of Tokyo, respectively. He served as a research associate in University of Tokyo (2009), JST PRESTO researcher (2011), and an associate professor (PI) in Shizuoka University (2014-). His research area is Natural Language Processing (NLP). He is interested in human-like natural language processing and its applications in medical, legal and conversational issues.

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