

Data Science Seminar Series

Domain-oriented Natural Language Processing



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Natural Language Processing (NLP) has been widely studied to help computers communicate with humans in their own language and scales language-related tasks. Although huge progress has been made recently, NLP still encounters difficulties in specific domains like business, finance, security. Since these domain-oriented tasks usually require accurate understanding of domain knowledge, and such fine-grained knowledge is hard to be captured by existing scheme. In this talk, I will introduce how to make NLP effective in specific domains, from formalizing concrete NLP problems to developing algorithmic NLP methods, motivated by real applications from business to security.

Yanchi Liu is a Research Staff Member in the Department of Data Science and System Security at the NEC Labs America. He received his Ph.D. in Information Technology from Rutgers, the State University of New Jersey. He has broad interests in data science, artificial intelligence, natural language processing, and their applications to solve real problems. His current research develops efficient and effective techniques to address various challenges in business analytics, complex systems, and urban computing, and to ultimately assist intelligent decision-making. He is the author of over 70 technical papers and a recipient of the Baidu Research Fellowship.