From Facts to Acts: Knowledge Graphs for Personal Assistant

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Abstract

The current generation of knowledge graphs (KGs) make it easy to deliver answers to popular factoid questions, but provide weak support for more personalized, task-oriented assistance. There are general KGs and KGs associated with assistants, but they have quite different characteristics and are distinctly separate: the former are relatively well understood, stable, focused on explicit factual knowledge; the latter are more volatile, focused on personal user state and implicit knowledge, and still largely being defined. Interfacing the two is not well understood. This talk will present open research areas for both KGs in the assistant domain including properties of their construction, representation, and inference.

Bio

Jeff Dalton is a Lecturer at the University of Glasgow. Until recently we was working at Google, among other projects on the Google knowledge graph. He graduated from University of Massachusetts where he was working with James Allan.