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Next-Generation Intelligent Assistants for AR/VR Devices

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Abstract

An intelligent assistant is an agent that knows you and the world, can receive your requests or predict your needs, and provide you the right services at the right time with your permission. As smart devices such as Alexa, Google Home, Ray-ban Stories get popular, Intelligent Assistants are gradually playing an important role in people's lives. The Emergence of AR/VR devices bring more opportunities and call for the next generation of Intelligent Assistants. In this talk, we discuss the many challenges and opportunities we face to grow intelligent assistants from voice-only to multi-modal, from context-agnostic to context-aware, and from listening to the users' requests to predicting the user's needs. We hope these new challenges will open doors to new research areas.

Biography

Xin Luna Dong is the Head Scientist at Facebook AR/VR Assistant. Prior to joining Facebook, she was a Senior Principal Scientist at Amazon, leading the efforts of constructing Amazon Product Knowledge Graph, and before that one of the major contributors to the Google Knowledge Vault project, and has led the Knowledge-based Trust project, which is called the "Google Truth Machine" by Washington's Post. She has co-authored books "Machine Knowledge: Creation and Curation of Comprehensive Knowledge Bases" and "Big Data Integration", was awarded ACM Distinguished Member, and VLDB Early Career Research Contribution Award for "Advancing the state of the art of knowledge fusion". She serves in the VLDB endowment and PVLDB advisory committee, and is a PC co-chair for KDD'2022 ADS track, WSDM 2022, VLDB 2021, and Sigmod 2018.