

Intelligent Cognitive Assistants: How SRC wants to shape the future of AI research

John Oakley
Science Director
Semiconductor Research Corporation

Abstract

The next evolution of the human-computer collaboration will soon become reality. The Intelligent Cognitive Assistant (ICA) initiative will accelerate the creation of systems that demonstrate the harnessing of machine intelligence to work collaboratively, enhancing human cognitive and physical capabilities. ICA will lead to the creation of new platforms to assist people in working, learning, interacting with new cyber-physical systems, redefine the human-computer interface, transport, healthcare, and other activities. These new applications will be individually adaptable and developed to augment the human performance and productivity, establishing new fields such as Cognitive Artificial Intelligence (CAI) at the human-technology frontier.

There several on-going research efforts in natural language processing, deep machine learning, and neuromorphic computing. The primary focus should be on creating the holistic artificial intelligence, creating a modular ICA system architecture enabling scalability and adaptability, and improving the human-intelligent machine interface.

This talk will focus on the joint NSF/SRC workshop held in November 2017 and subsequent research directions in ICA related fields.