

Seminar

Department of Computer Science

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Challenges and Opportunities for Cyber Physical Systems

Date: Tuesday, February 21, 2017
Time: 11:00 AM – 12:00 Noon
Location: EGRA 309C, CS Conference Room

Abstract

In the coming decades, we will witness a proliferation of cyber physical things that enable ever greater automation. Digitally codified information about physical objects and biological limbs will be transmitted much more often than their actual counterparts. As we approach an era where humans seamlessly share cognition with machines over complex networks, there will be a need for understanding and sharing initiatives that are mixed between humans and machines. In such a world, meaningful interactions will require cooperation, negotiation, and argumentation collectively called *haggling*.

In this seminar, I will foray into an arc of automation to motivate the need for haggling. I will then outline our recent strides towards haggling conceptualizations in complex networks. I will discuss an online organization architecture and networks effects followed by an exploration of argumentation as a predominant method for haggling. References will be made to current national initiatives and priorities.