

PhD Seminar

Thursday June 4, 2020 at 11:00AM on Zoom (please contact drozita@uoguelph.ca to view)

A Literature Review on Value Creation from Collaborations enabled by IoT in Agriculture

Melanie McCaig

Advisor: Dr. Rozita Dara

Co-Advisor: Dr. Davar Rezania

Advisory Committee: Dr. Daniel Gillis

Advisory Committee: Dr. Jing Lu

ABSTRACT:

The purpose of this review is to better understand the types of research relating to value creation from collaborations enabled by IoT in agriculture and clarify venues for future research. By applying the Joanna Briggs Institute Scoping Review Protocol we identified 37 articles which were used for further analysis. The results indicate that the current structure of the agricultural environment is in the initial stages of collaboration enabled by IoT. Of the articles, the majority were published in the last three years with publication steadily increasing per year. Publications were the most prevalent in India, China, the United States, Italy and Canada. The majority of the studies did not possess a methodology, being categorized either as a conceptual study or industry report (14), or as not an official study (a news article in a magazine, newspaper, wire feed or trade journal) (12). Many authors did not connect value to a measurable outcome. Austin & Seitanidi's (2012a) four types of value were used to categorize value in agriculture. As a result of these collaborations, concerns include the ownership, confidentiality, privacy, and misuse of data. Future empirical research is required to define these concepts, concerns, and create a framework of the discourse.