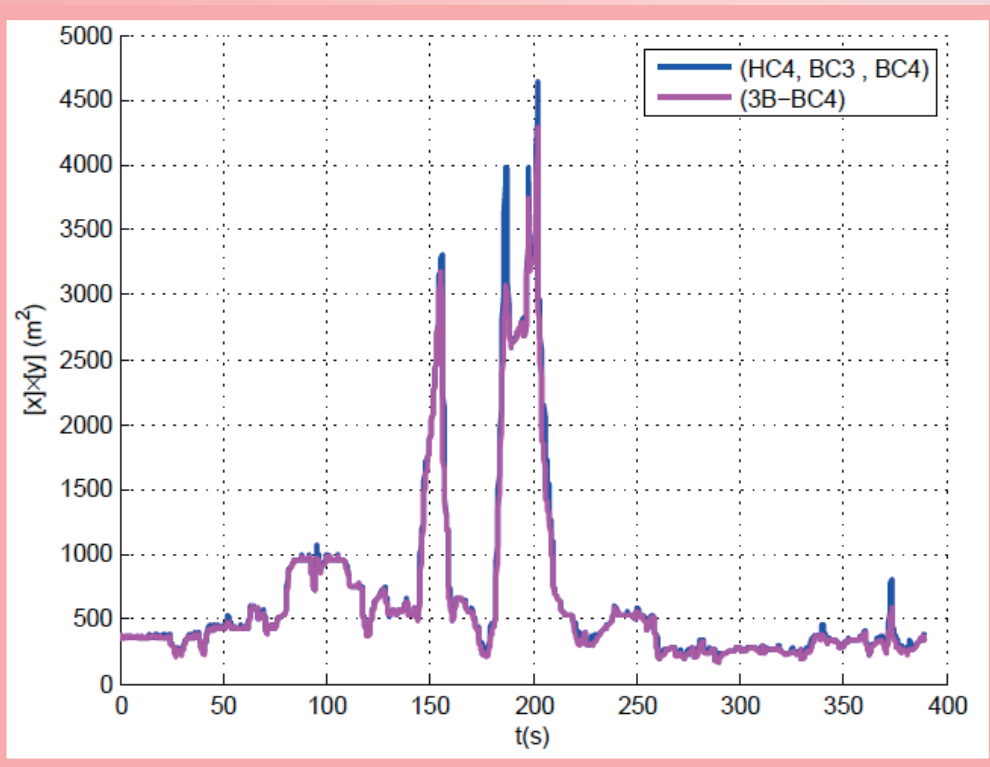




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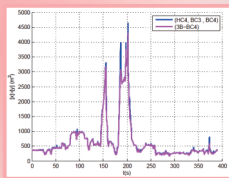
Invited Speech:

Title: An Introduction of Bidirectional Cognitive Computing between Concept Extension and Intension

Speaker: Prof. Guoyin Wang, Chongqing University of Posts and Telecommunications, China

Abstract

Human beings' memory and processing of a concept is usually based on its intension, while computer's memory and processing of a concept is based on its extension. It is a very important issue to study the relationship between the two different knowledge expressing and processing systems. The expressing and processing of uncertain concepts is very easy for human brains, while very difficult for artificial intelligent systems based on computers. Several theoretical models have been developed for solving this problem in the past decades, such as probability theory, fuzzy sets, rough sets, interval analysis, extenics, cloud model, et al. Many data mining and machine learning methods have also been proposed for extracting knowledge from data sets in recent years. These methods are unidirectional cognitive computing models from extension to intension only. In the view of granular computing, they are transferring knowledge from finer granule levels to coarser granule levels. In this talk, bidirectional cognitive computing between concept extension and intension will be studied. Cloud model will be used as a case study. In the cloud model, forward cloud generator and backward cloud generator are used for the bidirectional transformations between intension and extension. Several cognition experiments will be introduced to show the performance of our bidirectional cognitive computing model for studying human cognition processes, such as cognizing a concept over and over again, cognizing a concept with the increasing of its extension, many people's mutual cognizing process for a concept, multi granularity concept cognition, et al.


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