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This blog hosts weekly news about the Texas A&M University Sketch Recognition Lab. SRL is directed by Dr. Tracy Hammond, an associate professor in the Computer Science and Engineering Department. More information about the lab can be found at <http://srl.tamu.edu>

Friday, June 10, 2016

SRL MS Thesis Defense of Siddhartha Karthik Copesetty. Friday, June 10. Title: Labeling by Example

Thesis Defense

Friday, June 10

Title: Labeling by Example

Siddhartha Karthik Copesetty

1:00pm Friday, June 10, 2016

Room 326 Teague Building

Abstract

Sketch Recognition is recognition of hand drawn diagrams. Recognizing sketches instantaneously, is necessary to build beautiful interfaces with real time feedback. There are various techniques to quickly recognize sketches into ten or even twenty classes. But, what if we have 100,000 sketches and want to classify them into 3000 different classes? Using the existing techniques, it takes forever and ever to accurately classify an incoming sketch into one of these 3000 classes. For example, a class of hundred sketches takes two hours to get classified into one of the 3000 classes. This is very very slow, takes significant computation overhead and is not practical. So, to make things faster, we propose to have multiple stages of recognition. In the initial stage, the sketch is recognized starting from the outer level, moving level by level into the center of the sketch. This recognition is done by matching it against a set of sketch domain descriptions, resulting in a list of classes that the sketch could possibly be, along with the accuracy and precision for each. For the ones with accuracy less than a threshold value, they go through a second stage of recognition. In this stage, feature values are calculated and evaluated against our model to accurately classify the sketch. Thus, the time taken to classify such huge datasets of sketches decreases significantly with increase in accuracy and precision.

Biography

Siddhartha Karthik Copesetty is a master's student in the Sketch Recognition Lab. He completed his undergraduate degree in Computer Science at National Institute of Technology, Tiruchirappalli, India. He was a software engineering intern at Yahoo!, Sunnyvale last summer.

Advisor: Dr. Tracy Hammond

Posted by [Anna Stepanova](#) at [11:17 AM](#)

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