CLASSIFLY: CLASSIFICATION OF EXPERTS BY THEIR EXPERTISE ON THE FLY

Gan Keng Hoon, Gan Kian Min, Oscar Wong, Ooi Bong Pin & Chan Ying Sheng

School of Computer Sciences, Universiti Sains Malaysia, Penang, Malaysia

Motivation

The needs of finding an expert is very common especially for human resources in large organization like universities, research centers, companies, hospitals etc. For example, a student is looking for potential postgraduate supervisor in an academic setting, a patient is seeking for suitable specialist in a medical setting, a journal editor looking for reviewer and so forth.

In this paper, we focus on the classification of experts which is commonly used to improve the look up for expert. Classification allows grouping of experts into smaller subsets, for example by their expertise. Once an expert is classified, the information can be used in many ways like expert profiling, expert search filtering, experts grouping etc.

The Idea Behind Classifly

The idea behind Classifly is to enable quick learning by using available sources related to an expert's expertise to avoid the needs in manual labeling of training data.

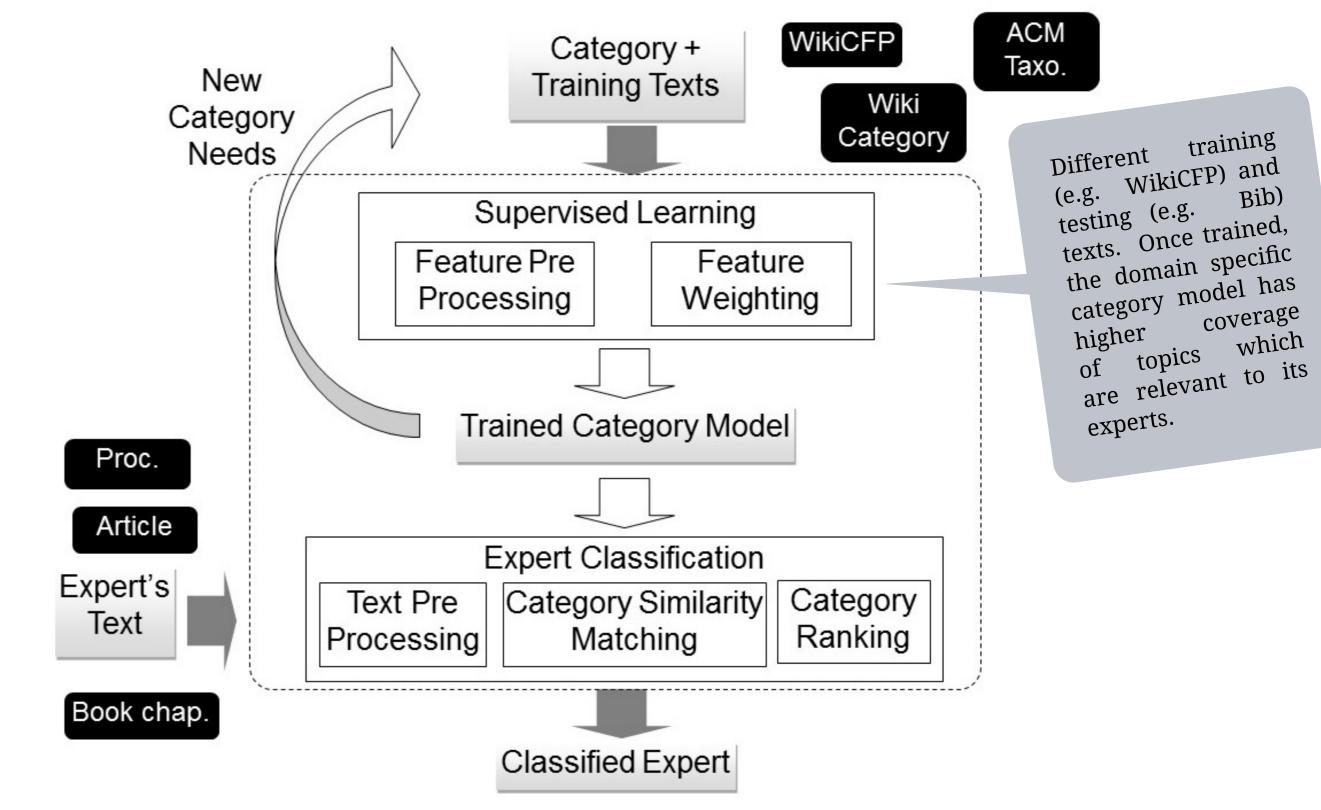
One example source is WikiCFP (categories) and its classified conferences (training texts).

The uniqueness of this system is that the categories/fields/areas of expertise can be easily trained to suit updates of expert's expertise.

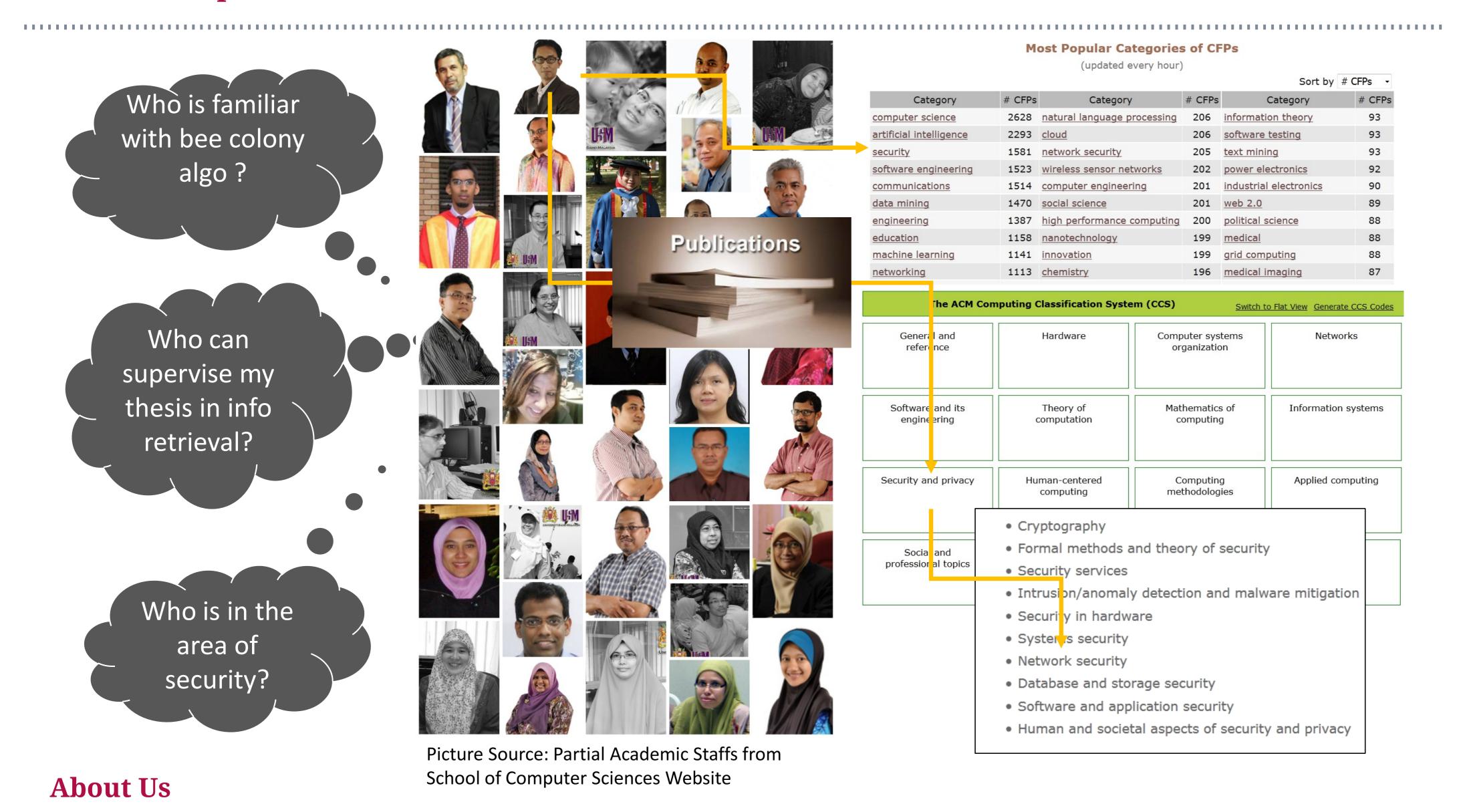
On top of that, classification process can be applied for experts in different domains.

For long term basis, Classifly targets to serve as platform to classify experts of different domains with different category complexities.

Expert Classification Architecture



Use Case: Experts Search in Academic Domain



Drop us an email at khgan@usm.my or visit us at ir.cs.usm.my



