

Cooking Recipe Retrieval with Rich Food Attributes

SPEAKER Ms CHEN Jingjing

PhD Student
Department of Computer Science
City University of Hong Kong
Hong Kong

DATE 1 November 2017 (Wednesday)

TIME 2:30 pm - 3:00 pm

VENUE Room M5018, Run Run Shaw
Creative Media Centre,
City University of Hong Kong,
18 Tat Hong Avenue, Kowloon,
Hong Kong

ABSTRACT

Retrieving recipes corresponding to given dish pictures is a challenging problem with many applications, such as recipe recommendation and nutrition analysis.

The state-of-the-art approaches either ignore ingredient composition inside food images or cooking and cutting methods associated with ingredient, which results in unsatisfactory performance.

In this paper, we propose a model for simultaneous recognition of ingredient as well as the associated cooking and cutting attributes for food image. We demonstrated by experiments that leveraging cooking and cutting information enables better ingredient recognition performance. Besides, we further utilize the predicted ingredient as well as cooking and cutting attributes for cross-modal recipe retrieval, and the experimental results verify the advantages of having the cutting and cooking attributes for retrieval.

This paper was presented in ACM MM 2017, October 23-27, 2017, Mountain View, San Francisco, USA.

Supervisor: Prof NGO Chong-Wah

Research interests: Multimedia; Cross-modal Retrieval

All are welcome!



In case of questions, please contact Prof NGO Chong Wah at Tel: 3442 4390, E-mail: cscwngo@cityu.edu.hk, or visit the CS Departmental Seminar Web at <http://www.cs.cityu.edu.hk/news/seminars/seminars.html>.

