**PhD Project Proposal**

School of Electronics, Electrical Engineering and Computer Science

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| **Proposed Project Title: Collaborative Food Recommendation via Multimedia Analytics** |
| **Principal Supervisor:** Dr. Jerry Shen **Second Supervisor:** Dr. Deepak Padmanabhan/Prof. Nirmalie Wiratunga (RGU) |
| **Project Description:** Food recommend plays an important role in assisting users to acquire the quality food to consume. Selecting food for daily meal is a complex and multidimensional decision making process, which is influenced by various factors such as recipe appearance, user's personal preference on ingredient, and various contexts like what had been eaten in past meals. In this project, we explore the food recommendation problem as user preference modelling and prediction via scalable statistical machine learning on recipes based on three important factors that determine food choice: 1) core ingredients; 2) the visual image of recipe and 3) health information about the food released via social media (e.g. Twitter and Facebook) and other authoritative sources.  |
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