Natural Language Processing & **Portuguese-Chinese Machine Translation Laboratory** 自然語言處理與中葡機器翻譯實驗室

Русский

NLP for Microblog Summarization

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Abstract

Massive volume of textual information, eg news, over the Internet results in the problem of information explosion. Direct reading of massive text is impractical if not incomprehensible. For this reason, there is a growing demand for automatic summarization technology in the digital era. Traditionally, the goal of automatic summarization is to identify relevant excerpts from the target document(s), digest them and represent them in a succinct form for easy reading. While research in summarization has been in good progress in past decades, its effectiveness has been proved extremely low for social media applications, such as microblogging in twitter, WeChat, etc. This is mainly due to word limitation of microblog messages, which in turn leads to lack of proper grammatical structures and discourse information. We investigate how conventional NLP techniques can be best applied to summarizing microblogs. Resembling a document in a traditional natural language text, we first cluster related microblogs to form a microblog document (m-doc). Within a m-doc, microblog paragraphs (m-para) are formed by the leading topics. Practically, a m-para is pansk, ελληνικ microblog re-post tree. Each m-para is comprised of inter-related short microblog messages ('sentences'), which is referred to as m-sent. Also, links between m-sent and m-para are viewed as contextual information. In our research, we propose a new discourse integration technique over m-doc for microblog summarization purpose.



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Biography



K.F. Wong obtained his PhD from Edinburgh University, Scotland, in 1987. After his PhD, he was researchers in Heriot-Watt University (Scotland), UniSys (Scotland) and ECRC (Germany). At present he is Associate Dean (External Affairs) of the Faculty of Engineering, Professor in the Systems Department of Engineering and Engineering Management, Director, Centre for Innovation and Technology (CINTEC), and Associate Director, Centre for Entrepreneurship, The Chinese University of Hong Kong (CUHK). He is also

Honorary Professor, Harbin Institute of Technology (Shenzhen Graduate School), Adjunct Professor, School of Computer Technology, Peking University and Adjunct Professor, Northeastern University, Shenyang China. He is fellows of HKITJC, HKIE, IET and BCS.

KF is very active in professional activities in Hong Kong. He is the Founding Chairman of the Bridging Digital Divide in China (HK) Charity Foundation. Also, he serves as the Chairman, ICT Advisory Committee, HK Scout Association; Chairman, Organisation Committee, 2012 & 2013 HK ICT Awards, Member of the Councumer Council and Non-official Member, Member of the Airport Technology Advisory Council of the Hong Kong International Airport, Member of Radio Television Hong Kong Board of Advisors.

He was awarded the Medal of Honour (MH) by the HKSAR Government in 2011 for his contribution in IT development in Hong Kong.

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