APNNS/IEEE Education Forum Series: Deep Learning and Artificial Intelligence Summer School 2020 (DLAI3)

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Invited Speaker

Title: "Thai Language Processing and AI Activities in Thailand"
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Abstract:

This talk introduces characteristics of Thai language in a computational point of view and a historical remark on Thai language processing research. The analysis of the Thai language is complicated since its structure is complex with optional vowel expression, no word boundary, no sentence boundary, flexible word composition, and flexible grammar structure. So far, there have been limitations on advances in Thai language processing due to a lack of language resources and standardization in language structure by natural. The success of processing Thai strongly strongly depend on semantic-level components, that is the hardest part in both theoretical and practical points of view. This talk includes information extraction, speech recognition/synthesis, optical character recognition, text categorization, text summarization, and text sentimental analysis. Finally, the activities related to artificial intelligence in Thailand are also pointed out.

Keywords: Knowledge Construction, Information Extraction, Thai Language Processing, and AI Activities

Bibliography: Thanaruk Theeramunkong is currently a professor at School of Information, Computer and Communication Technology at Sirindhorn International Institute of Technology (SIIT) at Thammasat University, Bangkok, Thailand. He is the Program Director of Information and Communication Technology for Embedded Systems (ICTES) at TAIST Tokyo Tech, National Science and Technology Development Agency (NSTDA). He is also an Associate Fellow, Academy of Science, the Royal Society of Thailand. As a professional society, He is the president of Artificial Intelligence Association of Thailand. He serves as an academic committee to the Industrial Section, National Research Council of Thailand (NRCT). He received his bachelor degree in Electric and Electronics Engineering, master and doctoral degrees in

Computer Science from Tokyo Institute of Technology. He was a research associate at Japan Advanced Institute of Science and Technology in Japan and a MIS manager at C.P. Seven Eleven Public Co., Ltd. in Thailand. He got several awards, including the Very Good Research Award in engineering field from Thammasat University in 2008, 2009 and 2010. Recently, in 2014, he has received the National Outstanding Researcher Award in the field of Information Technology and Communication Arts. He also got several best paper awards from conferences and societies, including the Japanese Society for Artificial Intelligence, PAKDD workshops, and KICSS. In 2015, he also got a Gold Medal with the Congratulations of the Jury from the 43rd International Exhibition of Inventions of Geneva for the inventions of automatic semantic-based multi-document summarization and application to public hearing. His research interests are natural language processing, data mining, text mining, machine learning and applications to service science. He was an associate editor of the Institute of Electronics, Information and Communication Engineers (IEICE). He is a member of the Steering Committee of the Pacific-Asia Conferences on Knowledge Discovery and Data Mining (PAKDD) and a member of the Steering Committee of the Pacific Rim International Conferences on Artificial Intelligence (PRICAI). He is the author of more than 48 papers in a number of journals with impact factors and more than 140 conference papers.