Thai Handwritten Recognition using Deep Learning

Asst. Prof. Dr. Rapeeporn Chamchong
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DATE: Thursday, 19 September 2019
TIME: 10am to 11am
VENUE: Murdoch University, Building 240 Room 240.2.045
(https://maps.murdoch.edu.au/location/12402045)
COST: Free, please RSVP to k.wong@murdoch.edu.au

Abstract:

Rapeeporn will talk about her research works in Thai handwritten recognition using deep learning. The recognition technique is the integration of Convolutional Neural Network (CNN) for feature extraction and Gate Recurrent Unit (GRU) for learning the sequence of character in images. The optimization of learning is performed with Connectionist Temporal Classification (CTC). This technique applied on Thai ancient manuscripts. This handwritten recognition also applied on a standard Thai handwritten dataset (BEST2019) for the contest, and her team was awarded the winner in the competition of BEST2019, the 21st National Software Contest in Thailand.

About the speaker:

Rapeeporn Chamchong is an assistant professor in the Department of Computer Science, Faculty of Informatics, Mahasarakham University, Thailand. She graduated PhD (Information Technology-Intelligent System) from Murdoch University. She is specializing in Document Image Processing, Computer Vision and Pattern Recognition. She got an award the 2018 Endeavour Research Fellowship from Ministry of Education and Training, Australian Government to do the research "Handwritten Recognition from Thai Ancient Manuscripts" at the University of South Australia. She also got an award to be a finalist of the 2009 Google Anita Borg Scholarship (Australia and New Zealand).