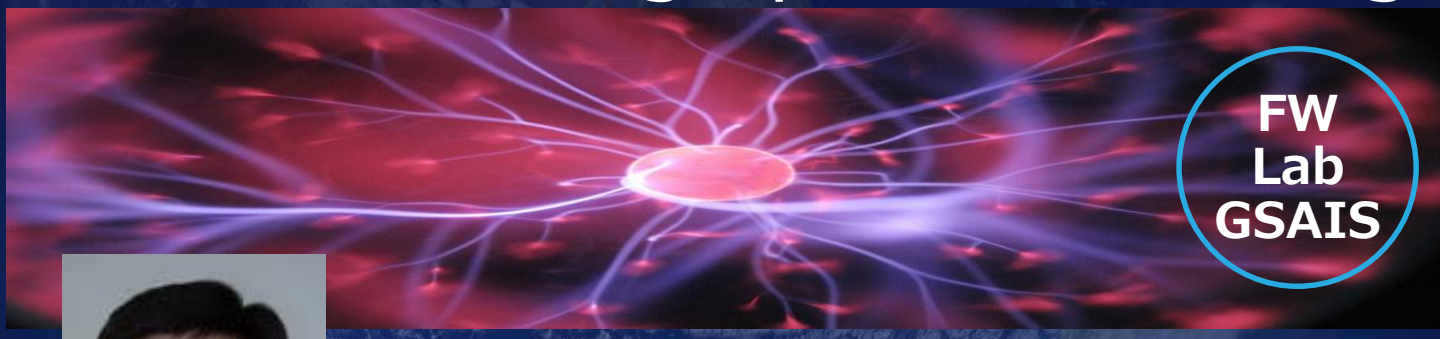
AI seminar
16:30--18:30
Feb 20 (Thu)

LEARNING features by deep neural network for image patch matching



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ABSTRACT

Establishing the local correspondences between images plays a crucial role in many visual tasks in AI. This talk discusses image patch matching on three aspects:

1. Learning the shared feature. We propose a progressive comparison of spatially connected feature metric learning with a feature discrimination constrain (SCFDM).
2. Learning the aggregated feature difference. We propose an aggregated feature difference learning network (AFD-Net).
3. Learning feature from hard samples. We propose the exponential Siamese and triplet losses.

These methods outperform other state-of-the-arts in terms of effectiveness and efficiency.

Room 201, Higashiichijo-Kan, Kyoto University