CAMT Seminar

"Introduction to Convolutional Neural Network (CNN)"

Dr. Nathaniel Saura

CNRS-Aix Marseille University, Marseille, France

(New Schedule)
Date: August 26, 2022 (Friday)　14:00-15:00
Location: Main Conference Room (1st floor), Bldg. A12
Center for Atomic and Molecular Technologies (CAMT)
(A12 棟１階会議室)
& Webex Link (hybrid)

Abstract

During the last decade, Convolutional neural networks (CNN) have revolutionized the already prolific Artificial Intelligence field, surpassing classical neural networks in most applications including face recognition, classification, clustering, and so on. Properties like parameter sharing ensure this great accuracy while decreasing the needed number of parameters and computation time. In this introductory talk, we'll try to give a comprehensive view of the CNN basis as well as principal blocks, connections, and components. From there, the most known architectures will be presented. This talk will end with examples of how modern blocks can improve the aforementioned architectures. From mathematics background to recent CNN's components, efforts have been made to give interpretations and intuitive explanations.

(Host: Satoshi Hamaguchi　Ext：7913)