CSC Seminar

SPEAKER

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TITLE

Deep Learning for Graphs and 3D Meshes

ABSTRACT

Domains that only recently have become the center of attention, from social networks to 3D computer vision, and even drug design in pharmacy have introduced challenges to the classical CNN approach since these data does not have grid-like underlying structure. Most of these data could be perceived as graphs. A various range of methods have been developed from data representation conversion (or dimensionality reduction) to a domain where classical CNN could be utilized, to defining convolution operations particularly for such domains where the filters are able to capture the information of a non-Euclidean structured data. In this talk, I will start with a brief introduction to the domain of 3D meshes and graphs and further present my proposed face-based segmentation network (as an extension to the MeshNet classification network), and finally I will discuss our ongoing research on developing a GNN for graph property prediction tasks using the distribution of the random walks on the graph.

Tuesday, June 29, 2021 at 2 pm
BBB