数学与系统科学研究院 计算数学所网络学术报告

<u>报告人</u>: Prof. Zuowei Shen

(National University of Singapore)

报告题目:

Deep Approximation via Deep Learning

<u>邀请人</u>: 明平兵 研究员

<u>报告时间</u>: 2020 年 12 月 18 日(周五) 上午 10:00-11:00

<u>报告工具</u>:腾讯会议(ID: 971 944 187)

Abstract:

of many primary task applications The is approximating/estimating a function through samples drawn from a probability distribution on the space. The deep approximation is to input a function by compositions of many approximate layers of simple functions, that can be viewed as ล series of nested feature extractors. The key idea of deep learning network is to convert layers of compositions to layers of tuneable parameters that can be adjusted through a learning process, SO that it achieves a good approximation with respect to the input data. In this talk, we shall discuss mathematical theory behind this new approach and approximation rate of deep network; how this approach differs from the classic new approximation theory, and how this new theory can be used to understand and design deep learning network.

欢迎大家参加!