



**THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY**

**Department of Mathematics**

**PHD STUDENT SEMINAR**

**Mathematical Ranking Frameworks and Application  
Perspectives in Blockchain and Decentralized Finance Space**

**By**

**Mr. Thuat DO VAN**

**Abstract**

The seminar presents mathematical ranking theories (PageRank, HodgeRank) and their practical algorithms in various application scenarios. The presenter also provides a literature review on static learning approach for the ranking problem. His study on the area is clearly discussed, e.g. ranking frameworks and adaptive implementations in transaction-based blockchain networks, decentralized spaces. The research is expected to has potential application in reputation-based voting consensus mechanisms, peer-2-peer lending, decentralized finance & banking, decentralized exchanges and prediction markets.

**Date : 18 May 2020 (Monday)**

**Time : 4:00pm – 5:00pm**

**Zoom Meeting : <https://hkust.zoom.com.cn/j/97982020442>**

*All are Welcome!*