2025 1학기 컴퓨터소프트웨어학부

CSE융합세미나

장소　　　　　　 ITBT관 911호

날짜 / 시간　　　 2025.03.19 16:00~18:00

Upcoming Talk

민동문

교수 / 성균관대학교

Architecting Large-Scale Quantum Computers Using a Full-Stack Quantum Computer Simulator

Quantum computing is a new computing paradigm expected to solve many classically intractable problems. However, the expected level of quantum advantage requires millions of qubits. Therefore, computer architects have done their best effort to develop a large-scale quantum computer system.

In this talk, I will introduce our research efforts towards large-scale quantum computer systems. I will first introduce the recent trends of developing large-scale quantum computer system. Then, I will present our end-to-end quantum computer system simulator and scalable quantum computer system architecture. Through this presentation, the audiences will understand (1) the various efforts of academia and industry, and (2) the future design direction towards large-scale quantum computers.

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