COMPUTER SCIENCE



Research Seminar

New Frontiers of Distributed Key/Randomness Generation a Applications

Speaker: Dr. Tang Qiang, Senior Lecturer (~ U.S As Cir Protessor) at

the University of Sydney

Date: 5 April, 2024 (Fri)

Time: 14:00 (HKT)

Venue: Room 308, Chow Yei Ching Building

Abstract

tal to blockchain consensus, threshold Distributed key generation protocols is ave been long line of research on this crypto, and many other distributed applied abic communication. With recent serge topic, unfortunately all of them suffe proof & stake blockchain, we revisit the classical of motivations in securing large r mul primitive: on one hand, we con e major performance barriers by leveraging existing blockchain infrastructure the first all-hands checkpointing scheme; On the other hand, we also significantly the asymptotic complexity and give the first mmunication. DKG/coin protocol with sub-civ

About the Speaker:

Dr. Qiang Tang is a cently a cor Lecturer (~ U.S Associate Professor) at the University of Sydney. From the was an assistant professor at New Jersey Institute of Technology and December 100 Technolo

Qiang v estigious awards including Sydney Research Accelerator Prize, MIT TR 35 Under Sogle Faculty Award, NJIT YWCC Research Execellence Award, Asiacrypt 16 Conference paper award and more. His research is supported by multiple leading blockchain foundation including Ethereum, Stellar, Protocol Labs, Algorand, and others. He is the Program Co-Chair of Annual International Public Key Crypto Conference (PKC 2024).