



TEXAS TECH UNIVERSITY

Department of Computer Science

Quantum Blockchains

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3:30 p.m.

BIOLOGY LH100 or Zoom

https://sites.google.com/view/tsalman/teaching/cs5120_sp23

Abstract: Blockchains have found numerous applications in Fintech, Supply chains, and contracts because they provide an ideal secure distributed ledger without needing a central trusted party. Numerous financial instruments and virtual currencies use blockchains that use public keys for security and privacy. Quantum computing is expected to break public-key systems based on factorization difficulty quickly. So, what will happen to blockchains in the coming era of quantum computing? This is the topic of this talk.

Bio: Raj Jain is currently the Barbara J. and Jerome R. Cox, Jr., Professor of Computer Science and Engineering at Washington University in St. Louis. Dr. Jain is a Life Fellow of IEEE, a Fellow of ACM, a Fellow of AAAS, and a recipient of the 2018 James B. Eads Award from St. Louis Academy of Science, 2017 ACM SIGCOMM Life-Time Achievement Award. Previously, he was one of the Co-founders of Nayna Networks, Inc., a Senior Consulting Engineer at Digital Equipment Corporation in Littleton, Mass, and then a professor of Computer and Information Sciences at Ohio State University in Columbus, Ohio. With 39,000+ citations, according to Google Scholar, he is one of the highly cited authors in computer science. Further information is at: <http://www.cse.wustl.edu/~jain/>.

