CS Research Day Plan

**Location**: Student Center 310AB/C EST. ATTENDANCE: 100

Organizer: Ruoming/Austin

Snacks/Logistics: Jan

**Schedule:** Feb. 2nd (Friday), 2018

8:50-9:00 Welcome (Javed)
9:00-9:55 the keynote speaker (Maurice: BlockChain)

10:00-12:30 morning technical talk session

 (Jonathan: Explore, Analyze, and Manipulate Source Code using srcML;

 Feodor: Negative curvature in complex networks;

 Goknarna: "Transaction Scheduling in Distributed Systems";

 Xiang:

 Kim: Future of Telepresence

25 minutes each)

Noon break

2:00 to 2:55 the second outside speaker [John Portman: KSU, to be confirmed]
3:00 to 3:50 panel on doing research [What’s next after Big Data? Javed: moderator; Maurice, Kambiz, Qiang, Bob, Jonathan, (Ruoming if needed)]

4:00 to 5:00 Ph.D student research review:

 Shamal Al-Douhuki (Ye); Pavan Poudel(Gokarna); Heather Guarnera, Abdulhakeem Mohammed (Feodor); Drew and Corey (Jonathan); Irvin Steve Cardenas and Do-Yeon Kim (Kim); Naser and Tamim (Javed)

5:10 to 5:30 award session (host: Austin/Ruoming, Maurice to give the prize)

5:30 to 7:30 poster session: Every Ph.D student who passed candidacy should have poster. [Coordinator: Austin]

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Blockchains and the Future of Distributed Computing

Maurice Herlihy

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Computer Science Department

ABSTRACT

There has been a recent explosion of interest in blockchain-based distributed ledger systems such as Bitcoin, Ethereum, and many others. Much of this work originated outside the distributed computing community, but the questions raised, such as consensus, replication, fault-tolerance, privacy, and security, and so on, are all issues familiar to our community. This talk surveys the theory and practice of blockchain-based distributed systems from the point of view of classical distributed computing, along with reckless speculation about promising future research directions for our community.