

Class Presentation Schedule

February

Day 1:

Map Reduce Framework : K. Bhaskar, Z. Dai

MapReduce: Simplified Data Processing on Large Clusters. Jeffrey Dean and Sanjay Ghemawat, OSDI'04: Sixth Symposium on Operating System Design and Implementation, San Francisco, CA, December, 2004. <http://goo.gl/G00PW>

Google File System : G. Eapen, J. Forbes

The Google File System. Sanjay Ghemawat, Howard Gobioff, Shun-Tak Leung, Proceedings of the 19th ACM Symposium on Operating Systems Principles, 2003, pp. 20-43

<http://research.google.com/archive/gfs-sosp2003.pdf>

Day 2:

Chain Clocks : D. Gunter, N. Hood

Chain Clock: Efficient Causality Tracking for Shared Memory Systems. Anurag Agarwal and Vijay K. Garg, ACM Symposium on Principles of Distributed Computing (PODC'2005) Las Vegas, July 2005, pp. 19-28

<http://users.ece.utexas.edu/%7Egarg/resources/chain-podc05.pdf>

Amazon Dynamo : C. Jose, S. Kim

Dynamo: Amazon's Highly Available Key-value Store. Giuseppe DeCandia, Deniz Hastorun, Madan Jampani, Gunavardhan Kakulapati, Avinash Lakshman, Alex Pilchin, Swaminathan Sivasubramanian, Peter Voss hall and Werner Vogels. Proceedings of the 21st ACM Symposium on Operating Systems Principles 2007, SOSP 2007

<http://www.allthingsdistributed.com/files/amazon-dynamo-sosp2007.pdf>

March

Day 1:

Distributed Trigger Counting : T. Latson, M. Vasquez

A Decentralized Algorithm for Distributed Trigger Counting. Venkatesan T. Chakaravarthy, Anamitra R. Choudhury, Vijay K. Garg, Yogish Sabharwal, ICDCN 2011

<http://users.ece.utexas.edu/%7Egarg/resources/icdcn11.pdf>

Distributed Algorithm for Minimum Spanning Tree : R. Messer, S. Nagarajan

A Distributed Algorithm for Minimum-Weight Spanning Trees. R. G. Gallager, P. A. Humblet, and P. M. Spira, ACM Transactions on Programming Languages and Systems, 5(1):66-77, January 1983

<http://users.ece.utexas.edu/%7Egarg/resources/p66-gallager.pdf>

Day 2:

Chord P2P System : C. Paul, C. Pianta-Stowbridge

Chord: A Scalable Peer-to-peer Lookup Service for Internet Applications. Stoica, Ion et al. (2001), Proceedings of SIGCOMM'01 (ACM Press New York, NY, USA)

http://users.ece.utexas.edu/%7Egarg/resources/chord_sigcomm.pdf

Publish-Subscribe System : J. Salling, R. Sandoval

Matching events in a content-based Subscription System. Marcos K. Aguilera, Robert E. Strom, Daniel C. Sturman, Mark Astley, Tushar D. Chandra, Proceedings of the eighteenth annual ACM symposium on Principles of distributed computing, 1999

<http://users.ece.utexas.edu/%7Egarg/resources/p53-aguilera.pdf>

April

Day 1:

Paxos Consensus Protocol : A. Wood, H. Zhong

Paxos Made Simple. L. Lamport, ACM SIGACT News (Distributed Computing Column) 32, 4 (121, December 2001) 51-58

<http://users.ece.utexas.edu/%7Egarg/resources/paxos-simple.pdf>

Practical Byzantine Fault Tolerance : P. Burman, J. Tharp

M. Castro, and B. Liskov, Practical Byzantine Fault Tolerance, Symposium on Operating Systems Design and Implementation (OSDI'99), New Orleans, USA, February 1999

<http://users.ece.utexas.edu/%7Egarg/resources/Byzantine-Liskov-osdi99.pdf>