Syllabus: Distributed and Cloud Computing

Instructor: Thomas Schwarz, SJ
Website: https://tschwarz.mscs.mu.edu/
Office Hour: TTh 15:30-16:30 and by appointment

Preliminary Plan of Studies
COSC 6060 Distributed and Cloud Computing

Week 1: Design goals. Distributed System Architectures.

Week 2: Communication

Week 3: Coordination, Naming

Week 4: Scalable Distributed Data Structures

Week 5: Consistency and Replication

Week 6: Fault Tolerance

Week 7: Remote Storage

Week 8: Security

Week 9: Virtualization, Elasticity

Week 10: Data Centers

Week 11: Containers, Docker

Week 12: Automation

Week 13: Cloud-based Algorithms and Data Structures (Map Reduce)

Week 14: Hadoop and Hadoop-based eco-system

Textbooks:

- Comer: The Cloud Computing Book, CRC Press
- van Steen, Tanenbaum: Distributed Systems, Pearson (available online via request)

Evaluation:

Quizzes   5%
Homeworks   45%
Final   50%

Zoom:

For those enrolled in the long-distance version of the class:

Thomas Schwarz is inviting you to a scheduled Zoom meeting.

Topic: Distributed Systems
Time: Aug 27, 2024 06:30 PM Central Time (US and Canada)
    Every week on Tue, Thu, until Dec 10, 2024, 31 occurrence(s)
    Aug 27, 2024 06:30 PM
    Aug 29, 2024 06:30 PM
    Sep 3, 2024 06:30 PM
    Sep 5, 2024 06:30 PM
    Sep 10, 2024 06:30 PM
    Sep 12, 2024 06:30 PM
    Sep 17, 2024 06:30 PM
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    Nov 21, 2024 06:30 PM
    Nov 26, 2024 06:30 PM
    Nov 28, 2024 06:30 PM
    Dec 3, 2024 06:30 PM
    Dec 5, 2024 06:30 PM

Please download and import the following iCalendar (.ics) files to your calendar system.
Weekly: https://us02web.zoom.us/meeting/tZwkcu-grzIpEtMDQmNcl04i6s6wChyS-vWA/ics?icsToken=98tyKuGgpz4sEtWcsxGARpw-HY_4M_zzmFhej7dwuC7oLSNfMlf_YPEUJZF3Ceud&meetingMasterEventId=tvOptCJFSUqRRPjcaQ35CQ

Join Zoom Meeting

https://us02web.zoom.us/j/88956819387?pwd=0mjab5cKOL3e2gJAMWXua50YLj6mQa.1

Meeting ID: 889 5681 9387
Passcode: 987123