Welcome to TDTS04/TDTS11 Computer Networks

& Distributed Systems/Internet Protocols

Examiner: Professor Andrei Gurtov

Email: andrei.gurtov@liu.se

http://gurtov.com

Welcome to TDDE35 Large-Scale Distributed Systems and Networks (11 ECTS)

Examiner: As. Professor Niklas Carlsson

Email: niklas.carlsson@liu.se

https://www.ida.liu.se/~nikca89/

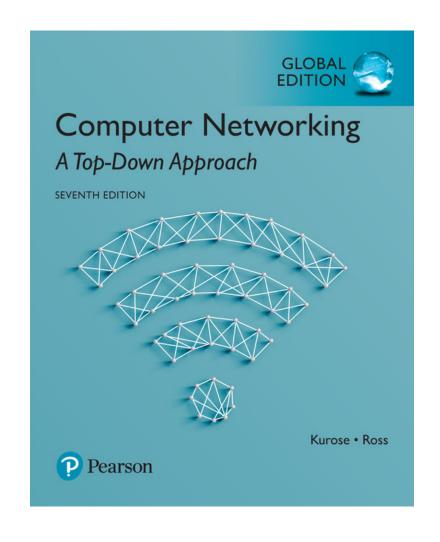
People

- Examiner and Lecturer
 - Andrei Gurtov, Professor
 - Research area: Networking, network security, cloud computing, future Internet architectures, peer-to-peer communication, ...
- Examiner and Lecturer (TDDE35)
 - Niklas Carlsson, Associate Professor
 - Research area: Design, modeling, and performance evaluation of distributed systems and networks
- Lab assistants
 - Carl Magnus (TDTS11): Java
 - Le Minh Ha (TDTS04 groups A&B): Python, Java, C/C++
 - Sanjana Vupparige Vijaykumar (TDTS04 group C): C++, Java
- Course Secretary
 - Annelie Almquist
- Director of studies
 - Patrick Lambrix

Course Overview

- Written exam
 - Grads: 'fail', 3, 4, 5.
- Four (4) mandatory lab assignments
 - Must pass all four labs
 - Eight lab opportunities
 - Please register on webreg right away!! (deadline on Jan 21)
- One (1) optional assignment
 - Up to 4 bonus marks for exam
- Twelve (12) lectures + one (1) exam prep.
- See website for more information ...

Course Book



Our expectations

- Buy and read the textbook
 - Very good textbook, written by highly regarded researchers in the field
 - No time to cover everything during lectures
 - Read the corresponding chapter before the lecture!
- Work hard
 - Pay attention during lectures
 - Make sure you understand the material
 - Start assignments early (some will take time)
 - Ask questions! No questions = everything is clear, can increase the pace
- Follow deadlines

About the Lecturer (prof Gurtov)

- Working hard for 20 years to make the Internet better
- Co-author of 5 RFCs, co-chair at IETF
 - including NewReno TCP, one of the most used (Berkeley)
- 4 books on 5G, P2P, security protocols, SDN
- ACM Distinguished Scientist
 - Over 200 journal and conference papers
- 15 supervised PhD theses
 - Alumni at Google, SuperCELL, Nokia, Ericsson, VMware
- IEEE Distinguished Lecturer
 - Tours: Puerto Rico, AbuDhabi, Lebanon, Panama,
 Dominican Republic, Novosibirsk

What to expect? (What will be covered?)

- Design principles for computer networks
 - Conceptual view of Internet architecture
- Design, resource, and performance tradeoffs
 - General working knowledge of protocols/applications
 - Detailed knowledge of selected protocols/applications
 - Some practical hands on experience
- Glimpse into the future of the Internet
 - Emerging trends and technologies

Why to Attend the Lectures?

- Opportunity to ask questions!
- Demos of protocol animations
- Know which parts/slides important for exam
- Sample exam questions and solutions
- Explanatory whiteboard figures
- Organize yourself for chapter progress/labs

List of Abbreviations

 https://www.ida.liu.se/~TDTS04/timetable/ab breviations.pdf

Changes from last year

- Improved lab instructions
- Lists of slides/topics of importance
- Detailed schedule
- Updated course pages with animations
- Linked bonus lab
- Btw, similar course TDTS06 got excellent feedback (>4)

Questions?

www.menti.com and give a code

So let's start the course ...