

Welcome to Blockchain Engineering

- how to **engineer** blockchain technology
- No written exam
- Project-based: 4-5 students

You will learn that blockchain is 95% engineering on top of sophisticated APIs and only 5% validation, crypto and creating trust.

Project-based course


- Enroll by email on a project
(Brightspace instructions)
- Deadline enrollment: 15Feb 11:59am (Noon)
- Brightspace → GITHUB list of projects
- Weekly meetings with advisors
- Work towards an operational prototype

Blockchain-lab.org


Blockchain-Lab - Chromium
Blockchain-Lab x
www.blockchain-lab.org
Apps XPS13 Declare prn: TUD600215 Add to Delicio MapleTA SVN central Reservation Syst ExCieTC

Blockchain Lab BLOCKCHAIN THE TEAM PUBLICATIONS ABOUT FACULTY CONTACT


FACULTY TEAM




Dr. Ir. Johan Pouwelse
Associate professor, PI




Dr. Zeki Erkin
Assistant Professor, Cryptography expert




Prof. Dr. Dick Epema
Section head, Distributed systems



Prof. Dr. Jeroen van den Hoven
Dean of TPM at TU Delft, Ethics expert



Prof. Dr. Dirk Helbing
Professor of Computational Social Science



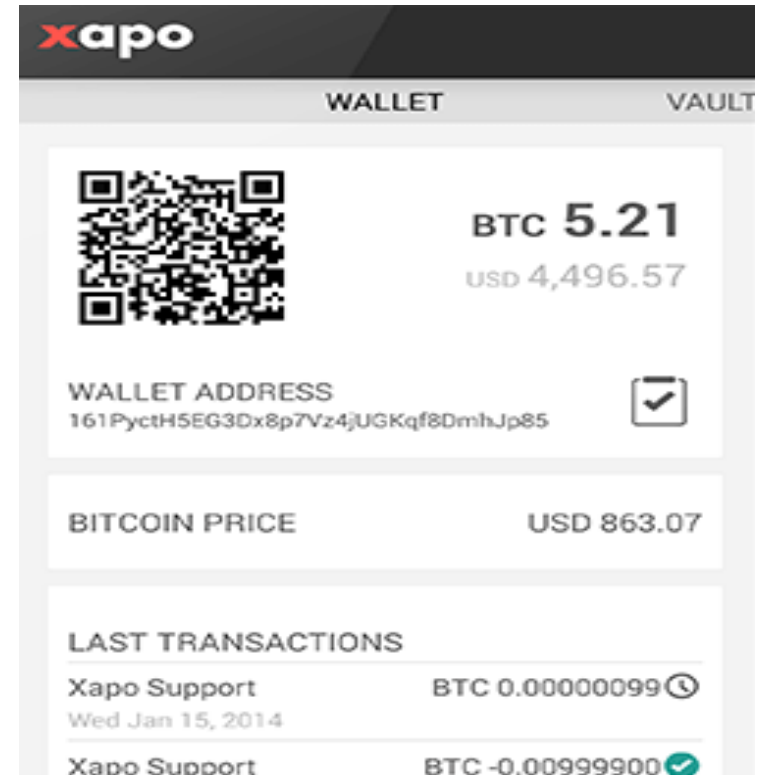
Prof. Dr. Ir. Rini van Solingen
Professor of Global Software Engineering

Schedule for today 8:45 – 10:30-ish

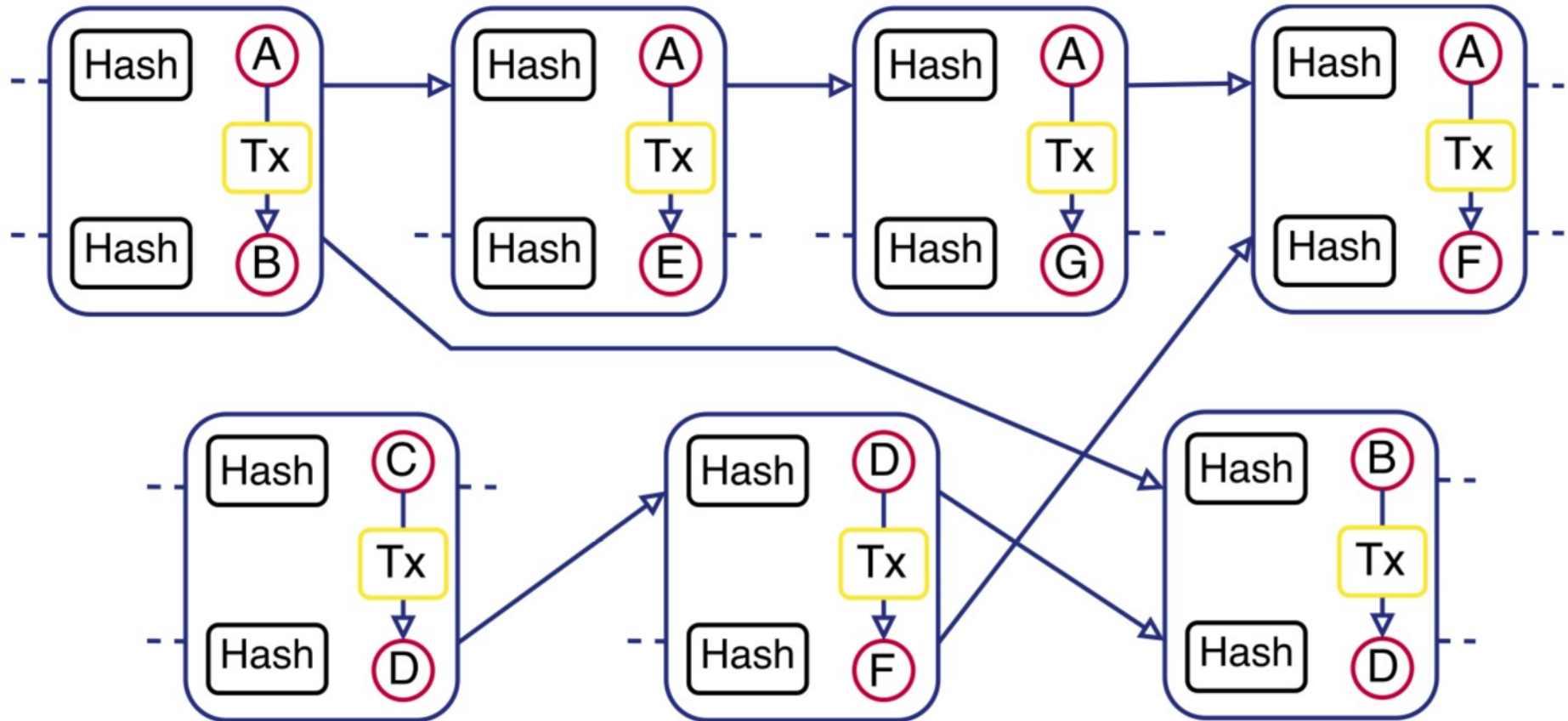
- This introduction
- 9 teams for BrainDAO
- 2 projects guided by Prof. Zeki Erkin (Z1+Z2)
- 9:30 - 10:30 questions + group formation

In this course: Bitcoin

- Proposed in 2007 by Satoshi Nakamoto (pseudonym)
- Your public key is your wallet address
- With the private key, you can sign transactions



In this course: Trustchain – by TUDelft



Trustchain demo .apk –

<https://github.com/Tribler/tribler/issues/6741>

17:00 [status icons] 96%

Peers

DemoCommunity 3 peers

c55fcd730c00bb57778380b7ed36acda37a27744
145.94.233.203:8090
▲ 3 s ▼ 3 s ↔ 255 ms

5595a2918f17454e6fb4f2454e1ba0e893a499e6
145.94.210.75:8090
▲ 26 s ▼ 13 s ↔ 215 ms

389d5122c480782d3e4b47453e94c32e28dbdc06
145.94.234.17:8090
▲ 4 s ▼ 4 s ↔ 76 ms

?
143.176.86.78:8090
▲ 5 s ▼ 3 s ↔ ? ms

?
143.176.86.78:1090
▲ 176 s ▼ 200 s ↔ ? ms

17:02 [status icons] 97%

All Blocks

4c696...ae1c seq: 121739 | 4c696...8468 seq: 3096 {down=0, total_down=431388901494, ...} ▼

4c696...8468 seq: 3096 | 4c696...ae1c seq: 3096 {down=1250931, total_down=117399551004, ...} ▼

Block Status: Signed

4c696...d219 seq: 15 | 4c696...c1c6 seq: 15 {message=test} ▼

Block Status: Waiting for Signature

SIGN BLOCK

4c696...2de8 seq: 406785 | 4c696...7194 seq: 34680 {down=0, total_down=149597833355...} ▼

4c696...7194 seq: 34680 | 4c696...2de8 seq: 34680 {down=8546184, total_down=526817793315, ...} ▼


Block Status: Signed


4c69...911fb seq: 118296 | 4c69...f7466 seq: 2201 {down=0, total_down=411812509720, ...} ▼


4c69...f7466 seq: 2201 | 4c69...911fb seq: 2201 {down=97923563, total_down=92549019983, u...} ▼


15:13 4G+ 15%


← Music app || 📺 🔍



#stayhome
[Demotapes]
Alexander Klein
Peers: 1


red eyes
Carter Vail
Peers: 1


Pandora's Box
Daniel Bautista
Peers: 1


Divine Intervention
ChillPanic
Peers: 1


Alone
David Imbernon
Peers: 1


Anyway
The.madpix.project
Peers: 1

⏮ ⏪ ⏩ ⏭ ⏸

00:00 ————— 00:00

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Goals after 10 weeks:

- Team P1 “AI from scratch”
- Team P3: “Train AI”
- Team P5:

BrainDAO Data Engineering

TFL Recommendation

Please select your favorite movies.

- American Beauty (1999)
- Star Wars: Episode IV - A New Hope (1977)
- Star Wars: Episode V - The Empire Strikes Back (1980)
- Star Wars: Episode VI - Return of the Jedi (1983)
- Jurassic Park (1993)
- Saving Private Ryan (1998)
- Terminator 2: Judgment Day (1991)
- Matrix, The (1999)

Our recommendation for you: