TPM030A

INTRODUCTION TO CLOUD AS INFRASTRUCTURE

The effects of the new business of computing on practice

Why is there a rush to AI? What is the role of cloud computing in the multi-trillion-dollar valuation of tech companies? Are mobile phones really personal devices? How has the way software is produced today changed the theory and practice of computing? And, what are the implications of the technical breakthroughs pushed by big tech companies (Google, Apple, Facebook, Amazon and Microsoft (GAFAM)) for our societies?
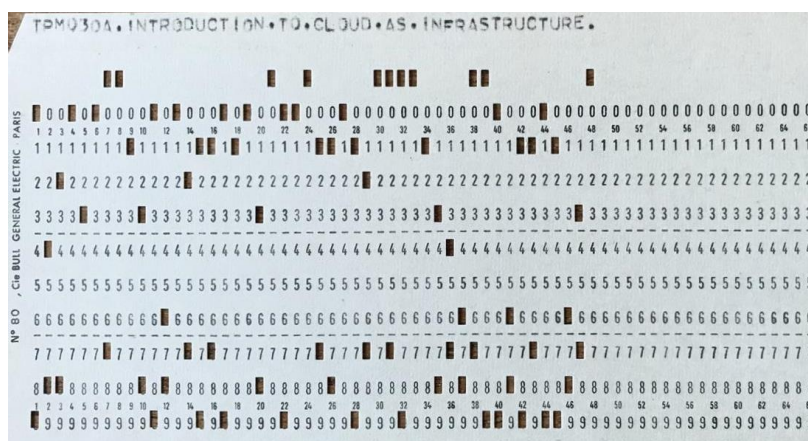

Do these questions spark your interest? Then enroll in TPM030A!

A highly interactive course where you will learn about concrete shifts in the production of software and the business of computing that lead up to the GAFAMs. Examples of such shifts include the turn from personal computers to (mobile) devices attached to the clouds, waterfall methods to agile/lean methodologies, monolith architectures to (micro)services, instruction-based programming to AI, and the move from general-purpose to specialized chips. For each of the shifts we will explore their technical, economic, political and social implications.

Guest Lecture:
Prof. Edouard Bugnion (EPFL, previously co-founder VMware and CTO Cisco)

- Q2 2021-2022
- 5 ECTS
- Highly interactive
- For second-year MSc students from all faculties

For more information, feel free to contact the course lead Seda Gürses (s.gurses@tudelft.nl) or teaching assistant Thijmen van Gend (t.n.vangend@tudelft.nl), or consult the Study Guide (see https://bit.ly/3C8Mlha or scan the QR-code)