The future of Software Engineering in the time of AI

Letizia Jaccheri – 29th February 2024

Catch IDI 2024

TDT4290 Customer Driven Project





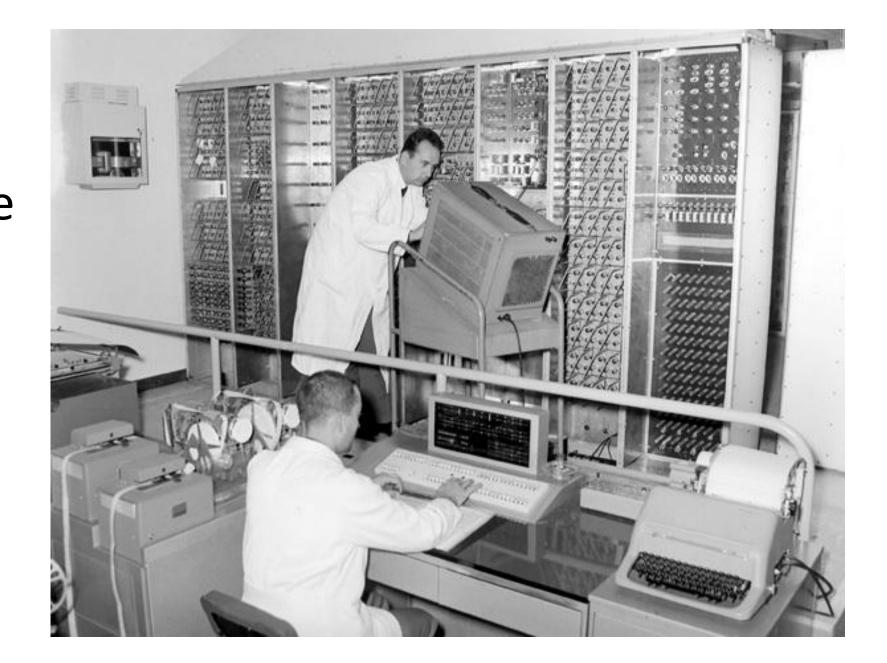


Norwegian University of Science and Technology

Once upon a time in 1960 the first Italian computer was

built in Pisa around 1960

36 Kbyte – now 8 Giga 10⁴ flops – now 10¹⁷





Letizia Jaccheri www.letiziajaccheri.org is a computer scientist. Letizia is born in Pisa. She has been professor at NTNU since 2002 and since 2013 she acts as department head for NTNU's Department of Computer and Information Science.







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Margaret Hamilton born 1936 the first person who coined the term software engineering and who wrote the software for Apollo expedition in the 60's

The first software engineering conference was held in 1968



December 2023, I asked OPENART to draw 4 software engineers and this is what I get https://openart.ai/cre ate



Computer science: algorithms, programming, artificial intelligence, architecture, graphics, security, databases, human computer interaction, information systems, operating systems, software engineering

Software engineering is an engineering-based approach to software development

Al stands for a computer system that performs tasks that typically require human intelligence, such as recognizing speech, making decisions, and identifying patterns

- Software engineering was founded as an academic discipline in 1968
- SE is a field of study in CS SE studies how humans cooperate to conceive, develop, test software
- Artificial intelligence was ${\bullet}$ founded as an academic discipline in 1956
- Al is a field of study in CS •
- AI develops and studies intelligent machines

Research methods: The human is at the center, sociology, psychology

technology

Generative create new content (audio, code, images) text, video)

Al automatically using a computer



JOBBER MOT KJØNNSGAPET I IT

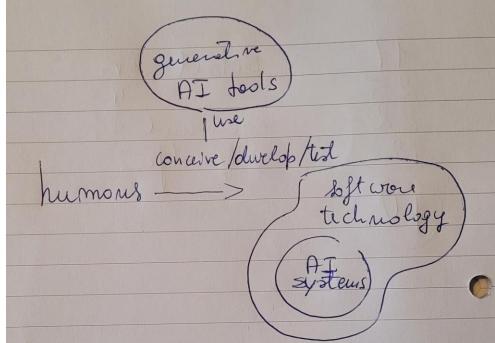
Det bør ikke være lov å lage KI-systemer uten kvinner

Professor Letizia Jaccheri er livredd for hvordan kunstig intelligens (KI) nå utvikles.



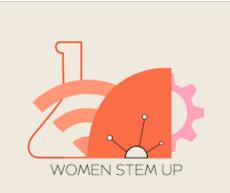
Letizia Jaccheri er pådriver for teknologi-konferansen Womencourage. Hun mener at hvis vi skal løse de store utfordringene, som miljø, klima og krig, må hele befolkning være med. Foto: Benedikt Erikstad Javorovic







Thanks to





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