

Propositions accompanying the doctoral thesis

Exploring Artificial Intelligence and Mobile Health in Skin Cancer Care

1. In their current state, mHealth apps integrated with AI are far from perfect but can be an effective tool to improve skin cancer detection.

This thesis

2. Facial images can substitute known risk factors to identify individuals at high risk of skin cancer.

This thesis

3. As AI will never become fully explainable, validation in clinical practice is essential to identify biases and malfunctioning of algorithms.

This thesis

4. To ensure the successful adoption of AI and mHealth, key stakeholders' views must be thoroughly integrated into future implementation strategies.

This thesis

5. False positive findings are a major pitfall for the widespread adoption of mobile health apps for skin cancer triage.

This thesis

6. AI has the potential to decrease dermatologists' workloads, eliminate repetitive and routine tasks, and improve access to dermatological care.

Andre Esteva, Eric Topol. Lancet (2019)

7. Het is haalbaar en wenselijk dat 70% van de daartoe geschikte zorg digitaal wordt aangeboden, waarbij minimaal de helft van de patiënten deze zorgpaden actief gebruikt.

Gebaseerd op het Integraal Zorgakkoord (2022)

8. If a machine is expected to be infallible, it cannot also be intelligent.

Alan Turing. Lecture to the London Mathematical Society (1946)

9. AI will either be the best or the worst thing ever to happen to humanity.

Stephen Hawking. Opening speech for the Leverhulme Centre for the Future of Intelligence at Cambridge University (2016)

10. As AI advances, the line between human and machine will become blurred, leading to a future where the concepts of "human" and "AI" are no longer mutually exclusive.

ChatGPT's response to "write a proposition about humans and AI" (2023)

11. Stay hungry. Stay foolish.

Steve Jobs. Stanford Commencement Address (2005)