Abstract:

Computers and digital technologies are changing many aspects of our lives, including our daily activities. It has also affected, mostly positively, the way many professions work, including Medical and Healthcare. From simply digitizing our medical data and health records (including x-ray images, microscopic images, to name just a few) for storage and transmission, to more advanced changes to the workflow.

With more advanced algorithms, computers help clinicians in the diagnostics accuracy and speed. Moreover, it is helping in personalized (and precision) treatment to reduce unnecessary side-effects and improve our quality-of-life.

There have been remarkable advances in computing, particularly involving and driven by Artificial Intelligence (AI) in the last one or two decades. This attracted a lot of research as well as many big companies to invest in, and there have been various promising results and products. Nevertheless, it is believed that there are still more benefits and advantages to be gained from utilizing these technologies if gaps and obstacles are identified and addressed.