

## As Machines Get Smarter and Take on Suitable Tasks, Humans Might Actually Find it Easier to be More Humane

**Dr. Eric Topol**

**Deep Medicine**

Fourth industrial revolution is characterized by a range of new technologies that are fusing the physical, digital and biological worlds, impacting all disciplines, economies and industries, and even challenging ideas about what it means to be human. This revolution is mainly revolving around artificial intelligence, robotics and big data. It has great potential to help but also to harm.

This revolution will overtake every human endeavor, medicine not least among them. Medicine itself is at a moment of crisis. Being a health care provider in the fourth industrial age is extremely demanding. The ever-increasing number of chronic diseases, the higher cost of medical services, lack of enough medical workforce, increasing amounts of administrative and executive tasks and rising life expectancy result in a great challenge for medical system. Digital technologies offer huge opportunities to improve the way health care is delivered. The promise of digital health in medicine is to provide composite, panoramic views of patients' data, to improve decision making, to avoid errors, to help ordering and interpretation of appropriate tests and to recommend best possible treatment.

In this supplement, we try to give a basic overview of digital health technologies with a focus in cardiology which we believe will benefit most from the emerging technologies in delivering healthcare..

The titles included in this issue are:

Part 1: "Digital health: Current evidence and future perspectives" by Ali Serdar Fak

Part 2: "What is Artificial Intelligence? Technical considerations and future perception" by Mustafa Ergen

Part 3: "AI in healthcare: Past, present and future "by Ahmet İlker Tekkeşin

Part 4: "AI in Cardiovascular Imaging" by Nurgül Keser

Part 5: "Role of artificial intelligence in imaging: from a radiologist's point of view with a focus on breast imaging "by Levent Çelik

Part 6: "AI driven advanced internet of things (IoT<sup>2</sup>) : the future seems irreversibly connected in medicine" by Onur Ergen and Kristen Belcastro

Part 7: "Wearable technologies in cardiology: Current evidence and future perspective "by Göksel Çinier,

Part 8: "Telemedicine: Current concepts and future perceptions" by Mert İlker Hayıroğlu,

Part 9: "Big data in cardiology" by Ertuğrul Okuyan

And Part 10: "Augmented reality in cardiology" by Mehmet Uzun

On behalf of the founding members of Digital Cardiology Project Group, we cordially thank to the board members of Turkish Society of Cardiology and to the editors of "The Anatolian Journal of Cardiology" for giving us the chance to prepare the first supplement on this highly important new topic.

Hope will be helpful for our colleagues.

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