

SOPHIA- A NEW ERA

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ABSTRACT

The making of Sophia is described and commented, a new humanoid robot that stands out for having with the latest advances in Artificial Intelligence (AI) that allow it, to learn and gain experience from human beings. Also, its appearance and wide repertoire of facial gestures that it has resembles a human being, Its presence has gained notoriety for her presentations and also for having received Saudi citizenship, being the first robot in the world to hold that status. Sophia's particular technological qualities have begun to generate repercussions of various kinds, not only in the academic-scientific world, but also ethically, artistically, religiously, morally, politically and economically. From the above, it can be affirmed that Sophia has marked the beginning of a new era, which now allows to see with greater certainty the real emergence of a successor of the human species.

INTRODUCTION

Artificial intelligence is intelligence demonstrated by machines, in contrast to natural intelligence. Sophia is a robot with the image of a middle-aged woman, who is actually only two and a half years old. It is a humanoid machine developed in Hong Kong by the American company Hanson Robotics, and activated from April 19, 2015. Sophia's main technological quality is her ability to learn human behaviours through her interaction with people. For this, it has been endowed with the most recent advances in the field of AI, such as a complex series of predictive algorithms based on computational statistics; a fluid synthetic vocalization, a rapid processing of the information that she receives, and a broad ability to recognize

faces and voices. The British actress Audrey Hepburn has served as a model to design the face

of Sophia, who still lacks lower extremities, It is also remarkable her ability to talk about specific issues. Because of her human qualities, the Saudi government has granted Sophia the citizenship of her country. Sophia also attended a lot of big events to give speech where it had answered just like human beings, she had a good sense of humour. She can express her feelings by her facial expressions, which makes Sophia an interesting humanoid robot.



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DESCRIBING SOPHIA

Sophia is a robot with an attractive female face, built so far only to its waist. Her eyes are cameras with the ability to recognize faces she has seen before. Her skin is made of a special variety of silicone (Frubbet), which is flexible enough to perform 62 facial expressions (anger, joy, sadness, amazement, annoyance, fear, etc.). She has an electronic synthetic voice system that allows her to speak and gesticulate as she makes her speech. However, the most "human" aspect of this robot is its ability to learn from the experience it gains whenever it has the chance to interact with people. Thus, Sophia becomes increasingly familiar with the culture, customs, feelings, emotions, and linguistic styles of her interlocutors. And all this experience is accumulating in her memory. When asked to give a precise answer on a topic, she googles it just like today's kids do.

CONCLUSION

One of the goals of its creators, with David Hanson at the head, is that Sophia manages not only to maintain an intelligent conversation with human beings on any topic, and on her own initiative, but that her dialogues are always accompanied by the emotional charge that characterizes the normal conversation between two people. The ultimate aim of creating the Sophia as said by the creator Dr. David Hanson is to help human beings with their daily works and also spreading human values.