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Will medical ethics suffice the dilemmas in robotic developments?

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There are various features meaning ethics in robotics- the ethical systems built into robots, the ethics of people who design and use robots, the ethics of how people treat robots, the ethical conundrum of intelligent machines, etc. Human-robot interaction practitioners often deploy robots in therapeutic settings with vulnerable populations; for example, to help treat children with autism spectrum disorders, to reduce stress and encourage pro-social behavior among older adults and to help children with developmental disabilities. A culture of ethical awareness and sophistication within the HRI community will, thus, advantage the cause of HRI research and development. Lethal autonomous machines will inevitably enter the future battlefield, but they will do so incrementally, one small step at a time. The combination of inevitable and incremental development raises not only complex strategic and operational questions but also profound legal and ethical ones. Such machines could be better than human soldiers in some situations, if they are programmed never to break rules of combat that humans might flout. The ethical conundrum of intelligent machines and how they relate to humans has long been a theme of science fiction. Bill Gates and Stephen Hawking have in recent months warned of the dangers of intelligent robots becoming too powerful for humans to control. This presentation discusses some questions: Do intelligent robots remain science fiction? It is not early to consider these issues seriously? Is it possible beginning to develop a variety of computer systems for ethical reasoning and begin to try to create ethical robots? Or acquire greater capabilities and ethical sophistication? Robot ethics ought to be the practical one of preventing robots from doing harm, as well as preventing humans from unjustly avoiding responsibility for their actions. But how will we carry out the justice and respect to autonomy of the human being?

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