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Title: Trustworthy AI From Principles to Practice: Design And Education

Abstract:

The development, deployment and use of AI and robotics enables important progress in many sectors. However, it is well acknowledged that ethical and societal issues are also raised by these technologies. We review a few of these concerns and their causes to introduce principles and requirements for ethically aligned design. Moving to a more practical perspective, we outline how value-based design methodologies can be applied in the AI and robotics domain, and depict how to ensure the continual implementation of ethically aligned design and use of AI and robotics through the education of engineers as well as the general public.