

Selected Prototypes of Moral Machines

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More and more autonomous and semi-autonomous machines such as intelligent software agents, specific robots, specific drones and self-driving cars make decisions that have moral implications. Machine ethics as a discipline examines the possibilities and limits of moral and immoral machines. It does not only reflect ideas but develops artifacts like simulations and prototypes. Oliver Bendel presents selected prototypes of moral and immoral machines and discusses a project planned for 2018. The GOODBOT is a chatbot that responds morally adequate to problems of the users. It's based on the Verbot engine. The LIEBOT can lie systematically, using seven different strategies. It was written in Java, whereby AIML was used. LADYBIRD is an animal-friendly robot vacuum cleaner that spares ladybirds and other insects. In this case, an annotated decision tree was translated into Java. The BESTBOT should be even better than the GOODBOT. Technically everything is still open.

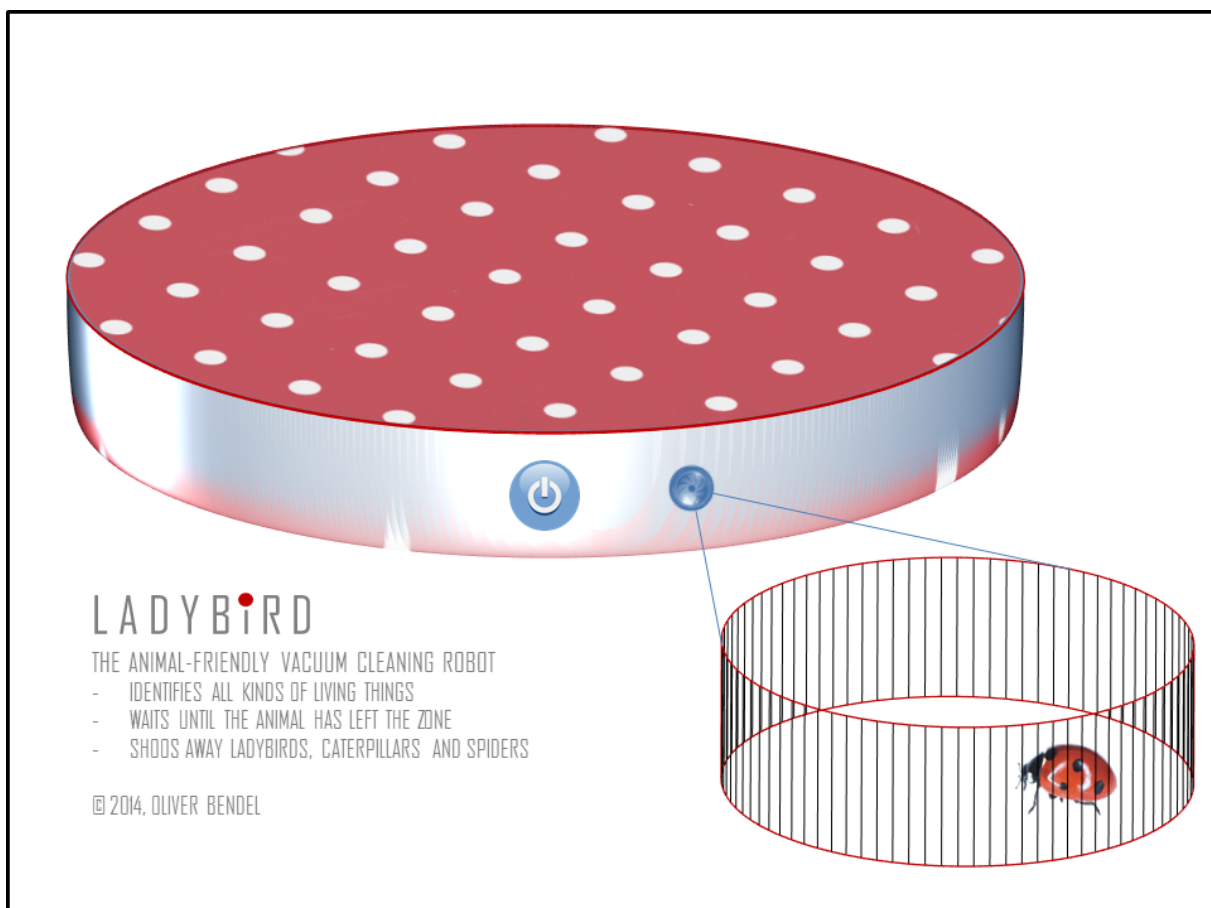


Fig. 1: Design study of LADYBIRD