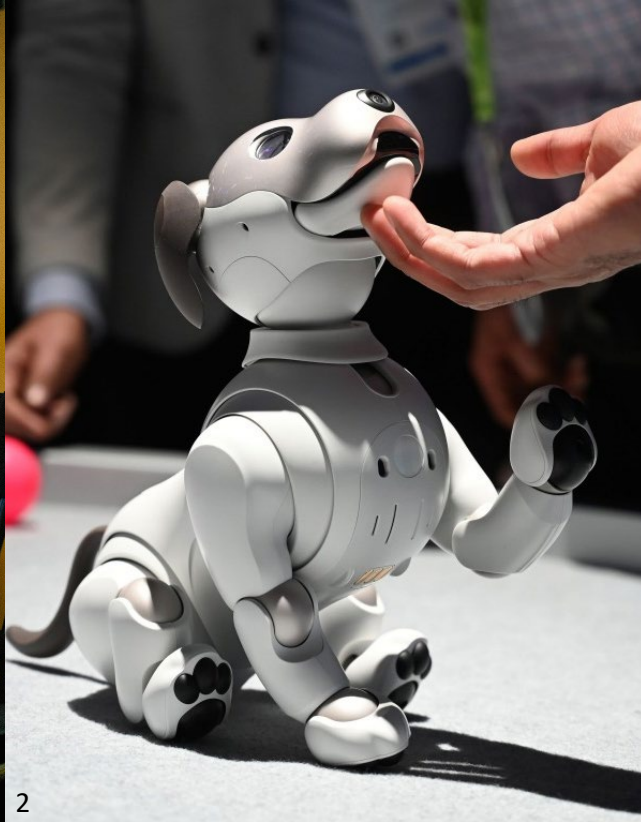


Robot Pets for Everyone: The Untapped Potential for Domestic Social Robots

Rahatul Amin Ananto

anantor@myumanitoba.ca

University of Manitoba



social robots interact like living things

social robots had successes in care homes and clinical practices

not a lot of people adopt social robots into their homes

1. <https://www.nytimes.com/interactive/2018/11/23/technology/robot-nurse-zora.html>

2. <https://www.scmp.com/week-asia/society/article/3004622/are-companion-robots-cure-asias-emerging-loneliness-epidemic>

3. <https://www.japantrendshop.com/paro-robot-seal-healing-pet-p-144.html>



Why don't we have successful domestic robots

most work on clinical or in lab studies

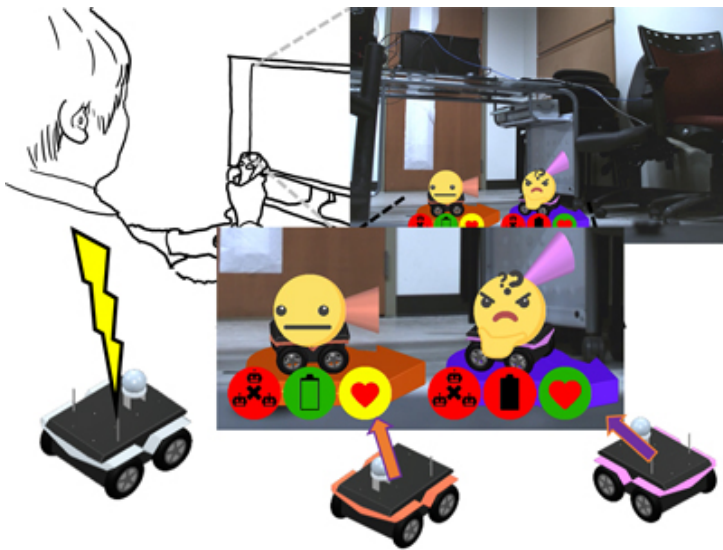
- relies heavily on Wizard-of-Oz
- does not reflect real-world use

existing social robots may not be suitable for homes

need more research

Agenda to Develop Improved Domestic Robots

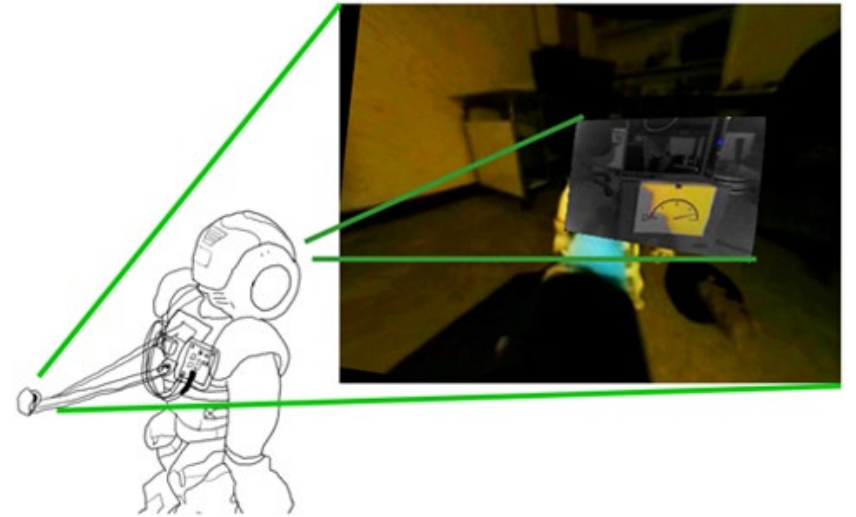
Involving users early-on and throughout (e.g., User-Centered Design)



Human-robot communication
doi.org/10.1007/s12369-020-00670-9



Human-robot interaction
doi.org/10.1145/3284432.3284447



Robot-teleoperation
doi.org/10.1109/ROMAN.2017.8172419

Agenda to Develop Improved Domestic Robots

Participatory Design

Short-term Usability
Study

Long-term Acceptance
Study

Feasibility and Needs Analyses

Bootstrapping problem

Short-term lab feasibility studies

Initial Long-term acceptance studies

Conclusion

understanding the issues is important

more research work is needed

may help developers create better domestic robots



Thank You

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