Bernhard Nebel, Felix Lindner, Thorsten Engesser, Barbara Kuhnert, Laura Wächter ws 2017/18



UNI FREIBUR

- Today: Attempt to understand the concept of a social robot (and the 'big questions' related to it) by reflecting upon the way how social robots are displayed in pop culture.
- Next Tuesday: Researchers' attempts to define and systematize social robotics research.









25. 25.

■ Why is there no Marvin in our homes?





- What are the pros and cons of learning for social robots? What is the alternative to learning?
- Should there be robotic police officers?



FEE



- What's the point in building robots like Ava?
- What's the difference between a human and a robot?
- Is 'being programmed' a valid difference?
  - Robot being programmed to flirt vs. Human being programmed to perceive the robot as flirting

 Android research by Hiroshi Ishiguro and colleagues (Osaka University)









- Should it be forbidden to abuse robots?
- Should robots have rights?





- Can robots be the better humans?
- What's the impact on human relationships if humans prefer robots as friends and partners?
  - A chance for less lonliness, less disappointment etc.?



## Buddy (2015)





- Do we really need such robots?
- Can they keep what they promise?



- 'Broad questions in social robotics'
  - What's the purpose of social robots?
  - What do social robots reveal about human nature?
  - How do social robots affect human behavior, thinking, relationships?
  - How to design a social robot for a specific role or task? How to design interactions?
  - Do we need regulations that restrict what kind of social robots are allowed?
- Next Lecture: Introduction to Social Robotics as a Science, more systematic access, attempts to define social robots.
- Exercise Sheet: Design your own social robot along several guiding questions. Exercise sheet is already on the web!

  Presentation at Nov 2nd.