

VISION

Robotics for Education

Fascinating subjects for engineering design and science research and advanced platforms for learning, teaching, and exploration.

Robotics for Healthcare

High-Tech embodiment of science, engineering and art for healthcare, childcare and eldercare.

Robotics for Entertainment

Rising stars in the industry, entertainment, either as virtual or physical characters.

ABOUT SOCIAL ROBOTICS LAB

The Social Robotics Laboratory (SRL) is a research laboratory focused on socially competent, personal, healthcare and edutainment robotics internationally for scientific, social and economical impacts through the synergy from arts, engineering, medicine and sciences. The multi-faceted research program conducted in SRL is structured to investigate all aspects of social, personal, medical and edutainment robotics. It aims to produce a seamless integration of artificial agents into the human society, which can be safely deployed in myriad social applications. These robots will act as intelligent companions which enrich the lives and co-exist in harmony with humans.

INTELLIGENT ROBOT

Nancy is a human-sized articulated robot with the capacity for friendly social interaction. Nancy is designed to traverse the home environment fashionable and safely while delivering care and assistance to the family. Utilizing the sensor fusion and environmental sensors, Nancy is capable of providing affectionate

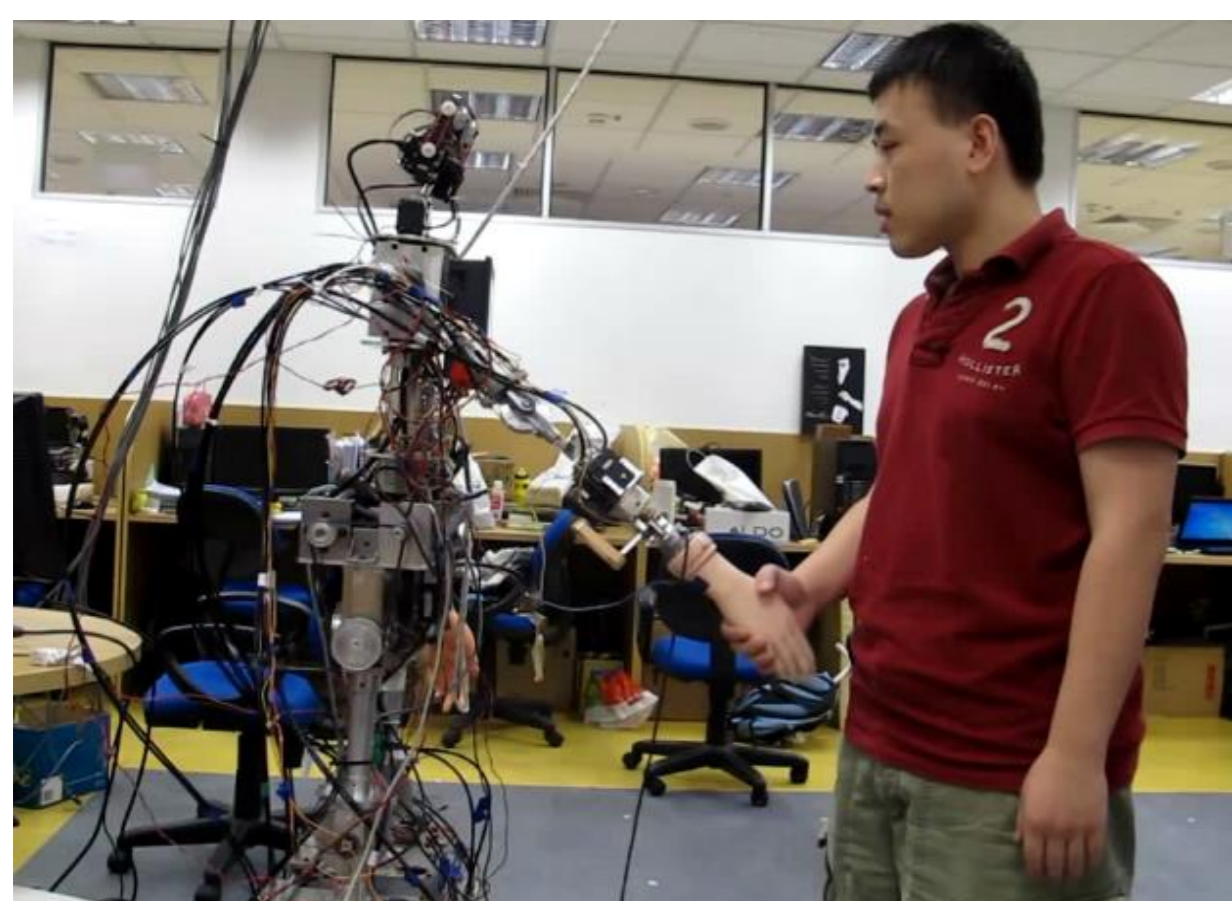


Fig. 1 Robotic Nurse Nancy Safely Interacting with Human social gestures like hugging and giving a pat on the back making her suitable companion in homes. Through advances in artificial intelligence, Nancy is able to accompany, entertain and even conduct lively conversations with people, especially the elderly during their slower days.

HOTEL ROBOT

Adam has the potential to transform the way hospitality service providers operate today. It has the ability to amaze guests and energize hotel receptions, ceremonies and other special events as well as to provide information intuitively through multiple interactive channels. From another perspective, it is also a powerful marketing tool that will bring hotel services to the next level.



Fig. 2 Hotel Robot Adam for Guest Reception

MISSION

Advanced cross disciplinary research of social robotics for globally improving people's lives.

Sophisticated common R&D platforms under one roof for more cohesive and vibrant research across the arts, engineering, medicine and sciences.

Dedicated human capital development for creativity, leadership and visionary in the area of social personal, healthcare and edutainment robotics.

High intellectual properties through outputs for technology transfer and start ups in making social and economic impact.

Quality joint research and international collaboration.

ROBOT FOR CHILDCARE

Carinet is a social robot which aims to provide safety-guaranteed and natural interaction with children. Carinet can act as a platform for children's entertainment and education such as storytelling, interactive game playing, etc. For storytelling, story summarization and emotion association are utilized to generate child favored version of story, and makes the storytelling more interesting.



Fig. 3 Robotic Bear Carinet for Child Companion