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Chapman Ambassador Tour Robot

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Abstract

Being a student ambassador improves a student's confidence and leadership skills. With an increasing demand for technology skills, our project will display how the ambassador robot can assist student ambassadors while improving upon their efficiency, by discussing information during college campus tours and familiarizing students with robot applications and their technology. The ambassador robot can support students during tours by answering a question about specific knowledge that may have slipped an ambassador's mind. The robot will also be able to create a group-focused atmosphere that will allow ambassadors to have the opportunity to lean on a dependable teammate for specific responses just as the robot depends on the ambassador for upkeep. With current technology it is nearly impossible for a robot to do a complete tour independently, but with our research, we want to see precisely how the ambassador robot can improve a university campus tour for prospective students and families while positively developing our student ambassadors' skills and confidence with robot applications. The student ambassador robot is not a replacement for student leadership and their roles or campus tours. The student and robot ambassador are the future of leadership efficiency and a bold new campus experience for all students and families to enjoy!



Chapman Ambassador Tour Robot Khiry Carter, Hilary Lee, Alex Lewandowski, Yanni Parissis, mentored by Austin Lee, PHD School of Communication, Chapman University

Feasibility of a Tourism Robot

Non Limiting Factors	Limiti
Ambassador Robot is simple to set up	Robot c experie
Can be programmed to know all the facts about his tour giving the human ambassador a less stress over knowing everything	Can onl questio would h guides
It can walk on its own and avoid hitting anything while walking	Limited not wat

In Other Words:

66

The Ambassador Robot can work; however it is very limited to where it can guide people and still needs to have a human partner to help with the tour with currently technology.

Economic Implications

- The role of the robot is not to *replace* tour guides, but rather serve as a form of support.
- There may be potential economic costs of repair and updates. When it comes to adopting tourism robots, there may be anxieties of whether the upfront and continual costs of upkeeping the robot are outweighed by the advantages and benefits it provides.
- It is also possible that the robots can generate money indirectly through publicity for simply the phenomenon of having a tourism robot
- As robot tour guides become more widespread, repair costs will go down.
- Ultimately, it is an investment.



ng Factors

cannot bring the human nce while explaining things

y know answers to limited ons any abstract questions have to be answered by tour

battery life, needs Wi-Fi and terproof



Social Implications

The Future

Social robotics have been pervasive in finding implications in various fields from medical, to education and farming. As artificial intelligence grows it is only natural that these implications expand into other industries such as **service** or **tourism**.

Examples of Robots in Service/Tourism Industry

- greetings to help bring more customers.

Video Synopsis

To demonstrate how we conceive an ambassador robot to function for a tour like the one we have on campus, our video mirrors a typical Chapman tour with the addition of NAO aiding and enhancing the experience.

• Lindsey: a robot tour guide with artificial intelligence built at the Lincoln Centre for autonomous systems in the U.K • Pepper: a robot that that also uses artificial intelligence used to give tours at the Smithsonian museum in Washington D.C. • Pepper is used strategically to bring more foot traffic into lesser viewed exhibits and is also used at the Westfield mall for friendly

