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"But on a more serious note, in any environment where there are people, we think we should design robots that can interact with them in a social way. That way, people will be more eager to help if it is trying to deliver something or find somebody," he said.



Across from Grace, an android version of the late science-fiction writer Philip K. Dick sat in a chair candidly chatting about his novels and personal habits. A true conversationalist, he made eye contact and punctuated his remarks with smiles and scowls on his realistic, three-dimensional face -- sculpted by David Hanson, founder of Texas-based Hanson Robotics Inc.

"In a lot of (Dick's) books, advanced robots look and act just like people," said Andrew Olney, the technical director of the FedEx Institute for Intelligent Systems at the University of Memphis who wrote the software to control the robot's responses.

Nearly 11,000 pages of Dick's novels are stored in the robot's memory, he said.

"It's not just a robot that looks like him. It's also supposed to respond like him," Olney explained.

Nearby, several robots rolled through a section of a hallway, seeking bright balls and stuffed animals as part of a scavenger hunt. The robots had to make their own decisions about how to locate and retrieve the objects using artificial intelligence: No remote controls could be involved, said Paul Rybski, a CMU post-doctoral fellow and co-chairman of the competition.

One robot from Canada even managed to register for the conference without assistance.

Spartacus, created at the University of Sherbrooke in Quebec, wheeled up to the registration desk, introduced himself; made arrangements to give a talk to the attendees; and volunteered to act as a quard or to take photographs.

Spartacus' only hang-up was with technology: The hotel's elevator doors kept closing too fast for him.

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