UMass Lowell – Dept. of C.S.

Class: Artificial Intelligence

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Topic: AI Interest

Artificial Intelligence (AI) now is one of the most powerful techniques that can help to strengthen thoroughly human 's science and engineering. AI in Computer Engineering specifically is not only one of the courses I take in this semester, but it is the most powerful knowledge in major, Computer Science.

With AI, I can build a composition of computations and decisions making that a device can perform as people do. A system or a device which has AI integrated may have many human-like behaviors such as speech recognition, learning, planning and problems solving. For example, a vacuum cleaner which AI engaged is smarter than a regular one was in several past years. It can start a task by running freely on any surface, avoid from obstacle things, scan for and suck off some garbage, then finish the task by going back to the designated charging station. AI algorithms can help the device to realize and recognize which things can and/or cannot be sucked off from the floor. The vacuum cleaner can be commanded by voice by human or smart hubs such as Google Home, Siri and Amazon Echo. Similarly, the device can be smart enough when it realizes when it can start a task as long as not disturbing house members' activities. For example, it can start to clean up the floor as everyone is sleeping or no person at home. In addition, the vacuum cleaner can learn on-going in every single task it is acting. The result of this self-learning is the best ways and the best routes to perform on a certain surface. Therefore, the device turns smarter in task-by-task so the home-owner may totally trust in the AI-integrated device.

In my opinion, Computer Science which has AI integrated can approach and beyond over the human's demands rather than an old-school device.