



SNS COLLEGE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING



Electrical Machines in Robotics and Automation

Topics : Hybrid Robot

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What is a Hybrid Robot ?

A hybrid (short for "hybrid robot") is a cybernetic organism in the form of a robot controlled by a computer consisting of both electronic and biological elements. The biological elements are typically rat neurons connected to a computer chip.



- How does a hybrid robot work?

A mechanically hybrid mobile robot. The robot has a combination of parallel and serially connected links which results in a hybrid mechanism that consists of a mobile robot platform for locomotion and a manipulator arm for manipulation.



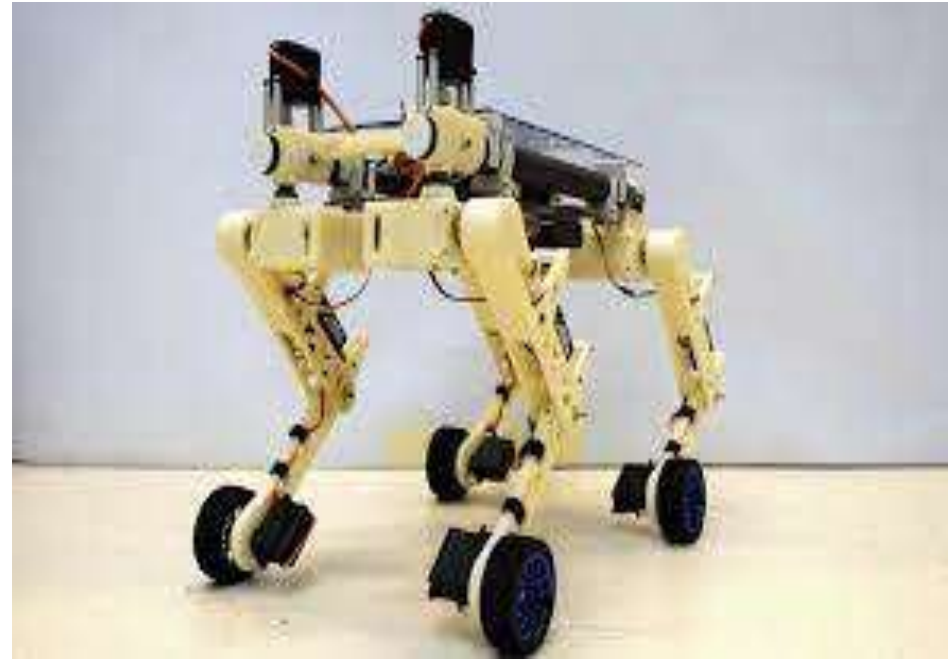
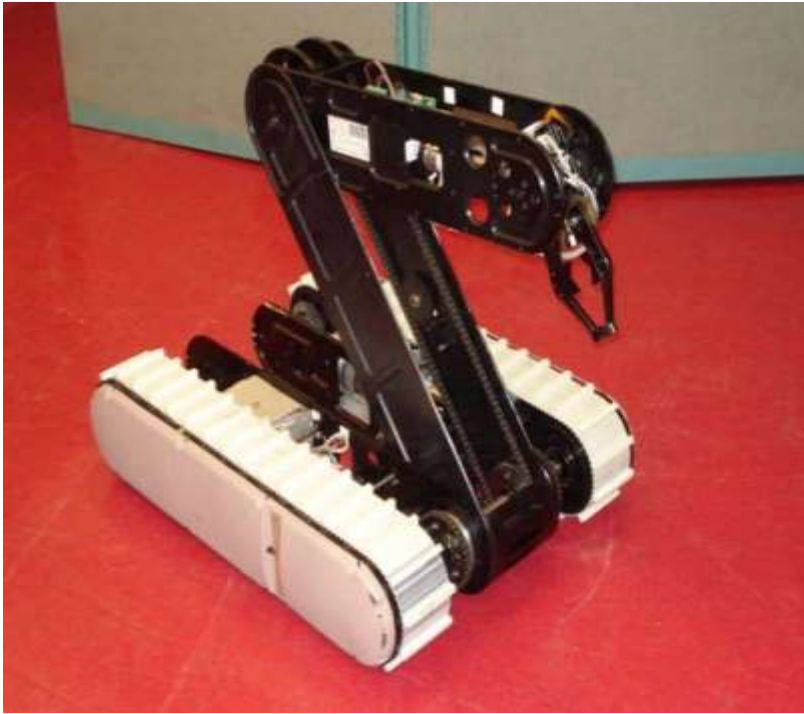


What are the types of Robots ?

- The six most common types of robots are autonomous mobile robots (AMRs), automated guided vehicles (AGVs), articulated robots, humanoids, cobots, and hybrids. Robots are used to drive efficiency, expedite processes, improve safety, and enhance experiences across many industries.
- Are there any human-like robots? Many research facilities around the world are currently developing human-like robots. Generally called "humanoid," these robots have varying features that are ostensibly similar to real humans beings



Examples of Hybrid Robots ?



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Uses in Industries



- Hybrid robots are model-driven or insect-driven robots, or artificially driven insects.

- ❖ Hybrid robots can be used for both model evaluations and biological experiments. Hybrid robots extend the role of robots in neuroethology.



THANK
YOU!