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Parallel robots : mechanics and control - GBV

Parallel Robots: Mechanics and Control (Session 9) - Prof. Hamid D. Taghirad.
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Parallel Robots: Mechanics and Control (Session 9) - Prof. Hamid D. Taghirad

Cable-driven parallel robots (CDPRs) are categorized as a type of parallel manipulators. In CDPRs, flexible cables are used to take the place of rigid links. The particular property of cables provides CDPRs several advantages, including larger workspaces, higher payload-to-weight ratio and lower manufacturing costs rather than rigid-link robots.

A Review on Cable-driven Parallel Robots | SpringerLink

Parallel robots, also sometimes called hexapods or Parallel Kinematic Machines (PKM), are closed-loop mechanisms presenting very good performances in terms of accuracy, rigidity and ability to manipulate large loads.

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A parallel manipulator is a mechanical system that uses several

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computer-controlled serial chains to support a single platform, or end-effector. Perhaps, the best known parallel manipulator is formed from six linear actuators that support a movable base for devices such as flight simulators.

Parallel manipulator - Wikipedia

In this paper, adaptive robust control of fully constrained cable-driven parallel robots with elastic cables is studied in detail. A composite controller is proposed for the system under the assumption of linear axial spring model as the dominant dynamics of the cables and in presence of model uncertainties.

Adaptive robust control of fully constrained cable robots

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control. 7. Students will be able to derive and calculate joint-space trajectory generation polynomials. 8. Students will be able to perform kinematic calculations for example kinematically-

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redundant serial robots, including simulation of resolved rate control. 9. Students will be able to perform kinematic calculations for example parallel robots.

EE/ME 4290/5290 Mechanics & Control of Robotic ...

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