

Cyber Physical Systems Seminar: A Comparison of Controllers for Elastic-Joint Robots

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A Comparison of Controllers for Elastic-Joint Robots

- With the aim of enabling advanced robotic applications, researchers recently started to develop resilient robots with elasticity in the joints.

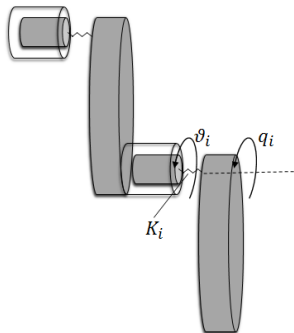
Video source: IEEE Spectrum - DLR



Source: IIT

- New control challenges arise and advanced control methods are currently being developed.

A Comparison of Controllers for Elastic-Joint Robots



- Task: **Implementation and comparison** of recently proposed tracking controllers for robots with elastic joints (using Matlab/Simulink).
- **You will need to have already** basic knowledge of dynamical systems, automatic control and Matlab/Simulink.
- **You will acquire knowledge** on advanced nonlinear control schemes for robots and you will **improve** your Matlab/Simulink skills.

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