

Actuators - IRO6

Introduction

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Actuators in robot or mechatronic systems are ...

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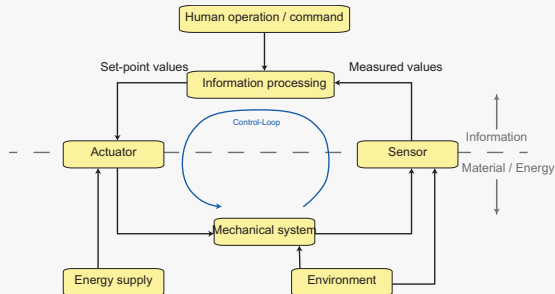


Figure Actuator as a component in robotics or mechatronic systems (inspired by Heimann, Gerth, and Popp, **Mechatronik: Komponenten, Methoden, Beispiele**)

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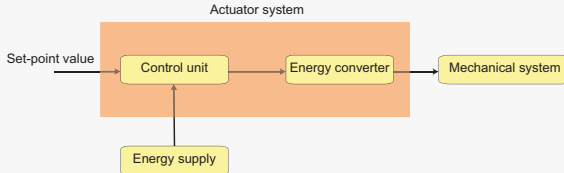


Figure Components of the actuator subsystem

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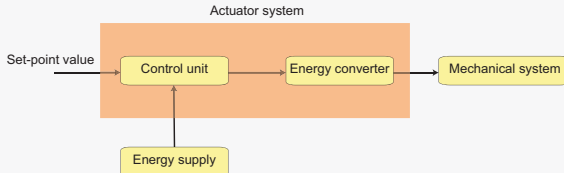


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- The control unit: generates the input for the actual energy converter with

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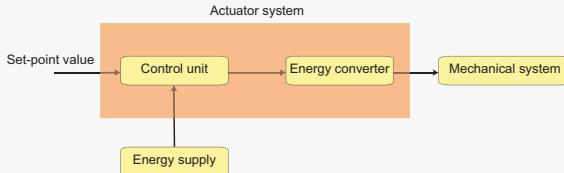


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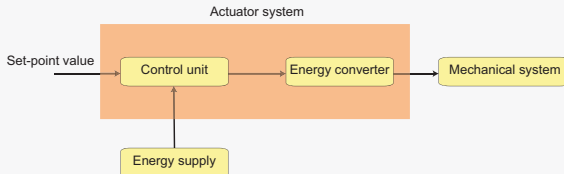


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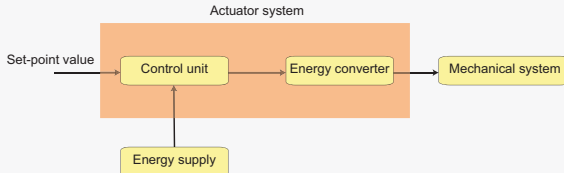


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- The energy converter: transforms

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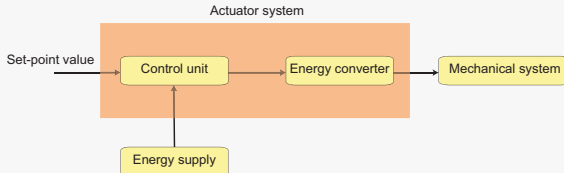


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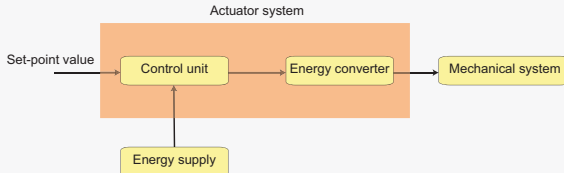


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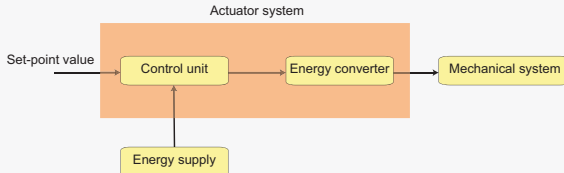


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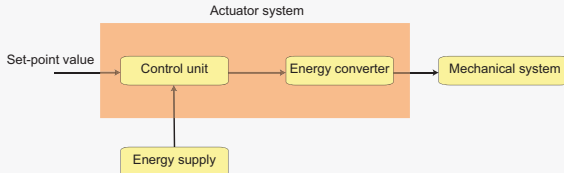


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Different energy converter technologies

Hydraulic, pneumatic and especially **electric drives** are used for robots