



Pneumatic Actuators for Robotics and Automation

Guest Editor:

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Message from the Guest Editor

Pneumatic actuation is a valuable and preferred alternative adopted in several control and automation systems for manufacturing and logistic processes, as well as for bio-robotic applications. Pneumatics as the main motion power source offers some important advantages in terms of a low weight-to-power ratio and safety; the latter is most relevant to the emerging field of cooperative robotics where a controlled and safe interaction between a human operator and pneumatic robot, other than the soft manipulation of delicate objects, can be guaranteed.

The Special Issue “Pneumatic Actuators for Robotics and Automation” covers both theoretical and experimental challenges involved in the design, realization, and control of pneumatic actuators for all relevant applications of robotics, automation, and control engineering.

