



Recent Advances in Pneumatic Soft Actuators

Guest Editor:

Dr. João Falcão Carneiro

Mechanical Engineering
Department, Faculty of
Engineering, University of Porto,
Porto, Portugal

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editor

We are pleased to invite you to submit your paper(s) to our Special Issue entitled “Recent Advances in Pneumatic Soft Actuators” in *Actuators* (ISSN 2076-0825). Both original research and review articles are welcome.

Pneumatic systems have always been attractive due to their simplicity, low cost, high power to weight ratio and high velocities. Recently, there has been a renewed interest in pneumatic soft actuators, as they are intrinsically compliant and therefore naturally suited to reaching confined spaces, dealing with unfamiliar environments, manipulating objects in complex ways and safely interacting with humans.

To highlight recent developments and future perspectives, this Special Issue invites contributions from all aspects on pneumatic soft robots, including but not limited to:

- Novel pneumatic soft actuators materials and geometries;
- Novel design and fabrication techniques, including 3D printing;
- Improvement of the actuator service life;
- Modelling and control of soft pneumatic actuators;
- Hybrid pneumatic-electrical actuators.

