

## References

- Balakrishnan, H. (2025). *Whole new worlds: Multi-agent systems for advanced air mobility, aerial sensing, and more* [Lecture].
- Cao, C. (2020). *Inherently elastic actuation for soft robotics* [Unpublished manuscript].  
<https://doi.org/10.13140/RG.2.2.30006.04166>
- Chiang, S. (2022). *Hybrid robotic manipulator using sensorized articulated segment joints with soft inflatable rubber bellows*. IEEE Xplore.  
<https://ieeexplore.ieee.org/document/9724119>
- Furst, A. (2025, February 11). *Microbial engineering for human and environmental health* [Video]. YouTube. <https://www.youtube.com/watch?v=njmRqLunlHI>
- Guo, Y., Liu, L., Liu, Y., & Leng, J. (2021). Review of dielectric elastomer actuators and their applications in soft robots. *Advanced Intelligent Systems*, 3(10), Article 2000282.  
<https://doi.org/10.1002/aisy.202000282>
- Hajiesmaili, E., & Clarke, D. R. (2021). Dielectric elastomer actuators. *Journal of Applied Physics*, 129(15), Article 150902. <https://doi.org/10.1063/5.0043959>
- Issue-integrated bionic knee restores versatile legged movement after amputation. (2023). *Nature Biomedical Engineering*, 7(5), 517–526. <https://doi.org/10.1038/s41551-023-01087-z>
- Ji, X., Liu, X., Cacucciolo, V., Imboden, M., Civet, Y., El Haitami, A., Cantin, S., Perriard, Y., & Shea, H. (2019). An autonomous untethered fast soft robotic insect driven by low-voltage

dielectric elastomer actuators. *Science Robotics*, 4(37), Article eaaz6451.

<https://doi.org/10.1126/scirobotics.aaz6451>

Kaneko, K., Kaminaga, H., Sakaguchi, T., Kajita, S., Morisawa, M., Kumagai, I., & Kanehiro, F. (2019). A robot HRP-5P: An electrically actuated humanoid robot with high-power and wide-range joints. *IEEE Robotics and Automation Letters*, 4(2), 1431–1438.

<https://doi.org/10.1109/LRA.2019.2896465>

Knapp, M. (2025, January 21). *Exploring the last spectral frontier: The Great Observatory for Long Wavelengths (GO-LoW)* [Video]. YouTube.

<https://www.youtube.com/watch?v=ghDqLWbeQUA>

Mao, G., Drack, M., Karami-Mosammam, M., Wirthl, D., Stockinger, T., Schwödianer, R., & Kaltenbrunner, M. (2020). Soft electromagnetic actuators. *Science Advances*, 6(26), Article eabc0251. <https://doi.org/10.1126/sciadv.abc0251>

Newman, D. (2025, February 4). *Leading innovation: Exploring optimistic futures* [Video]. YouTube. [suspicious link removed]

Onishi, N. (2025, January 14). *Update on Wind Challenger – Innovation of wind propulsion of ships: May the “Wind Force” be with you* [Video]. YouTube.

<https://www.youtube.com/watch?v=a-CEWnzc1Ys>

*PneuNets bending actuators*. (n.d.). Soft Robotics Toolkit.

<https://softroboticstoolkit.com/book/pneunets-bending-actuator>

Rothmund, P., Kellaris, N., Mitchell, S. K., Acome, E., & Keplinger, C. (2020). HASEL artificial muscles for a new generation of lifelike robots—Recent progress and future opportunities. *Advanced Materials*, 33(19), Article 2003375.

<https://doi.org/10.1002/adma.202003375>

Xavier, M. S., Tawk, C. D., Zolfagharian, A., Pinskiar, J., Howard, D., Young, T., Lai, J., Harrison, S. M., Yong, Y. K., Bodaghi, M., & Fleming, A. J. (2022). Soft pneumatic actuators: A review of design, fabrication, modeling, sensing, control and applications.

*IEEE Access*, 10, 59442–59485. <https://doi.org/10.1109/access.2022.3179589>

Yong, X., Luo, X., Zhao, H., Qiao, C., Li, J., Yi, J., Yang, L., Oropeza, F. J., Hu, T. S., Xu, Q., & Zeng, H. (2022). Recent advances in biomimetic soft robotics: Fabrication approaches, driven strategies and applications. *Soft Matter*, 18(40), 7699–7734.

<https://doi.org/10.1039/d2sm01067d>

Zaidi, S., Maselli, M., Laschi, C., & Cianchetti, M. (2021). Actuation technologies for soft robot grippers and manipulators: A review. *Current Robotics Reports*, 2(3), 355–369.

<https://doi.org/10.1007/s43154-021-00054-5>