

## A Compliant Robotic Leg Based on Fibre Jamming (Abstract Reprint)

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### Abstract

Humans possess a remarkable ability to react to unpredictable perturbations through immediate mechanical responses, which harness the visco-elastic properties of muscles to maintain balance. Inspired by this behavior, we propose a novel design of a robotic leg utilizing fibre jamming. The research highlights the potential of these structures for enhancing legged locomotion and adaptability in unpredictable environments.

### References

Liow, L.; Brett, J.; Pinski, J.; Hanson, L.; Tidswell, L.; Kottege, N.; and Howard, D. 2024. A Compliant Robotic Leg Based on Fibre Jamming. *IEEE Transactions on Robotics*, 40: 4578–4597.