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## Summary

## Memberships

## Organisations

[Department of Mechanical Engineering](#)

## Other sites

- [Brissynbio](#)
- [Mecheng](#)

## Research Groups

- [Advanced Composites Collaboration for Innovation and Science \(ACCIS\)](#)
- [Visual Information Laboratory](#)
- [Robotics - Core](#)

## Recent publications

- Tzemanaki, A, Al, GA, Melhuish, C & Dogramadzi, S, 2018, '[Design of a wearable fingertip haptic device for remote palpation: Characterisation and interface with a virtual environment](#)'. *Frontiers in Robotics and AI*, vol 14., pp. 6633-6655
- Tzemanaki, A, Abeywardena, S, Psomopoulou, E, Melhuish, C & Dogramadzi, S, 2018, '[Using current measurement to estimate palpation and grasping forces in robot-assisted minimally invasive surgery](#)'. in: *Proceedings of the joint workshop on New Technologies for Computer/Robot Assisted Surgery.*, pp. 95-96
- Tzemanaki, A, Fracczak, L, Gillatt, D, Koupparis, A, Melhuish, C, Persad, R, Rowe, E, Pipe, AG & Dogramadzi, S, 2016, '[Design of a multi-DOF cable-driven mechanism of a miniature serial manipulator for robot-assisted minimally invasive surgery](#)'. in: *Biomedical Robotics and Biomechatronics (BioRob), 2016 6th IEEE International Conference on.*, pp. 55-60
- Herrmann, G, Jalani, J, Mahyuddin, MN, Khan, SG & Melhuish, CR, 2016, '[Robotic hand posture and compliant grasping control using operational space and integral sliding mode control](#)'. *Robotica*, vol 34., pp. 2163-2185
- Hall, JR, Tritton, T, Rowe, ACM, Pipe, AG, Melhuish, CR & Leonards, UB, 2014, '[Perception of own and robot engagement in human-robot interactions and their dependence on robotics knowledge](#)'. *Robotics and Autonomous Systems*, vol 62., pp. 392-399
- Khan, SG, Herrmann, G, Lenz, A, Al Grafi, M, Pipe, AG & Melhuish, CR, 2014, '[Compliance Control and Human-Robot Interaction: Part II - Experimental Examples](#)'. *International Journal of Humanoid Robotics*, vol 11.
- Khan, SG, Herrmann, G, Al Grafi, M, Pipe, AG & Melhuish, CR, 2014, '[Compliance Control and Human-Robot Interaction: Part I - Survey](#)'. *International Journal of Humanoid Robotics*, vol 11.
- Assaf, T, Roke, C, Rossiter, JM, Pipe, A & Melhuish, C, 2014, '[Seeing by touch: Evaluation of a soft biologically-inspired artificial fingertip in real-time active touch](#)'. *Sensors*, vol 14., pp. 2561-2577

- Tzemanaki, A, Burton, TM, Gillatt, D, Melhuish, C, Persad, R, Pipe, AG & Dogramadzi, S, 2014, '[uAngelo: A novel minimally invasive surgical system based on an anthropomorphic design](#)'. in: *5th IEEE RAS EMBS International Conference on Biomedical Robotics and Biomechatronics*. Institute of Electrical and Electronics Engineers (IEEE), pp. 369-374
- Tzemanaki, A, Walters, P, Pipe, AG, Melhuish, C & Dogramadzi, S, 2014, '[An anthropomorphic design for a minimally invasive surgical system based on a survey of surgical technologies, techniques and training](#)'. *International Journal of Medical Robotics and Computer Assisted Surgery*, vol 10., pp. 368-378

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