



## Dr Said Khan

Research Collaborator

### Area of research

Human Robot Interaction (HRI) using Compliance Control

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### Memberships

#### Organisations

[Department of Mechanical Engineering](#)

#### Other sites

- [Mecheng](#)

#### Research Groups

- [Robotics](#)

### Selected publications

- Khan, S, Herrmann, G, Lewis, F, Pipe, A & Melhuish, C, 2012, '[Reinforcement Learning and Optimal Adaptive Control: An Overview and Implementation examples](#)'. *Annual Reviews on Control*, vol 36(1)., pp. 42 - 59

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### Recent publications

- De Silva, G, Burgess, S, Hatano, T, Khan, S, Zhang, K, Nguyen, T, Herrmann, G, Edwards, C & Miles, M, 2017, '[Optimisation of a nano-positioning stage for a Transverse Dynamic Force Microscope](#)'. *Precision Engineering - Journal of the International Societies for Precision Engineering and Nanotechnology*, vol 50., pp. 183-197
- Tien, TN, Khan, S, Hatano, T, Zhang, K, Edwards, C, Herrmann, G, Harniman, R, Burgess, S, Antognozzi, M & Miles, M, 2017, '[Real-Time Sliding Mode Observer Scheme for Shear Force Estimation in a Transverse Dynamic Force Microscope](#)'. *Asian Journal of Control*, vol 19., pp. 1-12
- De Silva, G, Burgess, S, Hatano, T, Khan, S, Zhang, K, Tien, TN, Herrmann, G, Edwards, C & Miles, M, 2016, '[An optimized nano-positioning stage for Bristol's Transverse Dynamic Force Microscope](#)'. in: *7th IFAC Symposium on Mechatronic Systems & 15th Mechatronics Forum International Conference: Loughborough, United Kingdom, 5-8 September 2016*. Amsterdam:Elsevier, pp. 120-126
- Hatano, T, Zhang, K, Khan, S, Tien, TN, Herrmann, G, Edwards, C, Burgess, S & Miles, M, 2016, '[A Specimen-Tracking Controller for the Transverse Dynamic Force Microscope in Non-Contact Mode](#)'. in: *2016 American Control Conference (ACC 2016): Proceedings of a meeting held at July 6-8, Boston, MA, USA*. Institute of Electrical and Electronics Engineers (IEEE), pp. 7384-7389
- 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
- Spiers, A, Khan, S & Herrmann, G, 2016, '[Biologically Inspired Control of Humanoid Robot Arms - Robust and Adaptive Approaches](#)'. Springer
- Tien, TN, Hatano, T, Khan, S, Zhang, K, Edwards, C, Harniman, R, Burgess, S, Antognozzi, M, Miles, M & Herrmann, G, 2015, '[Estimation of the shear force in transverse dynamic force microscopy using a sliding mode observer](#)'. *AIP Advances*, vol 5.
- 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.

- Mahyuddin, MN, Khan, SG & Herrmann, G, 2014, '[A novel robust adaptive control algorithm with finite-time online parameter estimation of a humanoid robot arm](#)'. *Robotics and Autonomous Systems*, vol 62., pp. 294-305

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