

## **Publications**

### **Journal Publications**

1. Fang J, Xie Q, Yang G-Y, Xie L.: 'Development and feasibility assessment of a rotational orthosis for walking with arm swing', *Frontiers in Human Neuroscience*. 2017; 23(11).
2. Fang, J., Hunt, K.J., Xie, L., and Yang, G.Y.: 'Modelling of the toe trajectory during normal gait using circle-fit approximation' *Medical & Biological Engineering & Computing*, 2016; 54(10):1481-9.
3. Fang, J., Vuckovic, A., Galen, S., Conway, B.A., and Hunt, K.J.: 'Mechanical stimulation of the foot sole in a supine position for ground reaction force simulation', *Journal of NeuroEngineering and Rehabilitation*, 2014:11.159
4. Fang, J., Vuckovic, A., Galen, S., Conway, B.A., and Hunt, K.J.: 'Foot trajectory approximation using the pendulum model of walking', *Medical & Biological Engineering & Computing*, 2014, 52:45-52.
5. Fang, J., Galen, S., Vuckovic, A., Conway, B.A., and Hunt, K.J.: 'Kinetic analysis of supine stepping for early rehabilitation of walking', *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, 2014, 228(5): 456-464.
6. Fang, J., Xie, L., and Yang, G.-Y.: 'Review on the interlimb neural coupling and its potential usage in walking rehabilitation', *Jouranal of Shanghai Jiaotong University (Science)*, 2014, 19(3):45-76.
7. Fang, J., Vuckovic, A., Galen, S., Cossar, C., Conway, B.A., and Hunt, K.J.: 'Design and evaluation of a prototype gait orthosis for early rehabilitation of walking', *Technology and Health Care*, 2014, 22 (2):273-288.
8. Fang, J., Gollee, H., Galen, S., Allan, D.B., Hunt, K.J., Conway, B.A., and Vuckovic, A.: 'Kinematic modelling of a robotic gait device for early rehabilitation of walking', *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, 2011, 225 (12):1177-1187.
9. Hunt, K.J. and J. Fang, *A morphological viewpoint: juxtaposition of design approaches for locomotion-rehabilitation robotics*, in *Opinions and Outlooks on Morphological Computation*, H. Hauser, R.M. Fuchslin, and R. Pfeiffer, Editors. 2014. p. 137-150.
10. Hunt, K.J., Fang, J., Saengsuwan, J., Grob, M., and Laubacher, M.: 'On the efficiency of FES cycling: a framework and systematic review', *Technology and Health Care*, 2012, 20: 395-422.

11. Zhang, Y., Fang, J., and Xie, L.: 'The design of rehabilitation robot with combined movement of arms and legs' *Journal of Shanghai Jiaotong University (Science)*, 2014, 19(6):718-720.

### **Conference Publications**

12. Fang J, Yang G-Y, Xie L. 'Development of a rotational orthosis for walking with arm swing' in 23rd Congress of the European Society of Biomechanics; 2017; Seville, Spain.
13. Fang J, Yang G-Y, Xie L. 'Development of an automatic rotational orthosis for walking with arm swing' in 3rd RehabWeek; 2017; London, the UK.
14. Fang, J. and Hunt, K.J.: 'Robotics design for early rehabilitation of walking based on circle approximation of the toe trajectory' in International Neurorehabilitation Symposium 2013, Zurich, Switzerland.
15. Fang, J., Gollee, H., Galen, S., Conway, B., and Vuckovic, A.: 'Modeling of a gait robotic device for early rehabilitation of walking' in 17th Congress of the European Society of Biomechanics 2010; Edinburgh, the UK.
16. Fang, J., and Vuckovic, A.: 'Design of a shoe platform to simulate ground reaction force', in 'Book Design of a shoe platform to simulate ground reaction force' (2011, edn.), pp. 14.
17. Fang, J.: 'Design of a gait robotic device for early rehabilitation of walking', in 'SET for Britain' 2010, London, the UK.
18. Fang, J: 'Modelling of ankle movement for early rehabilitation of walking', XXIII Sandbjerg Symposium on Neuroplasticity and Neurorehabilitation 2009.

### **Patents**

19. Fang, J., Xie, L., Yang, G. Y., and Zhang, Y.: A multi-posture gait rehabilitation system with arm swing, patent number: 201410217852.6.
20. Fang, J., Xie, L., and Yang, G. Y.: A rehabilitation shoe for walking simulation, patent number: 201410374533.6.