

**Dr Ildar Farkhatdinov**  
PhD

School of Engineering and Materials Science  
Queen Mary University of London  
Mile End Road  
London E1 4NS

tel: +44 (0)20 7882 8732

email: i.farkhatdinov@qmul.ac.uk web: www.sems.qmul.ac.uk/i.farkhatdinov

---

## 2021

**A Suite of Robotic Solutions for Nuclear Waste Decommissioning.**

Vitanov I, Farkhatdinov I, Denoun B, Palermo F, Otaran A, Brown J, Omarali B, Abrar T, Hansard M, Oh C, Poslad S, Liu C, Godaba H, Zhang K, Jamone L and Althoefer K. *Robotics vol. 10, (4) 112-112.*

**Innovation in the time of SARS-CoV-2: A collaborative journey between NHS clinicians, engineers, academics and industry.**

Din AR, Althoefer K, Farkhatdinov I, Brown J, Morgan C and Shahdad S. *Surgeon vol. 19, (5) e281-e288.*

**Extended reality (xr) remote research: A survey of drawbacks and opportunities.**

Ratcliffe J, Soave F, Bryan-Kinns N, Tokarchuk L and Farkhatdinov I. *Conference On Human Factors in Computing Systems - Proceedings.*

**Haptic Ankle Platform for Interactive Walking in Virtual Reality.**

Otaran A and Farkhatdinov I. *Ieee Transactions On Visualization and Computer Graphics.*

## 2020

**Automatic Fracture Characterization Using Tactile and Proximity Optical Sensing.**

Palermo F, Konstantinova J, Poslad S, Althoefer K and Farkhatdinov I. *Frontiers in Robotics and Ai.Frontiers Media.*

**Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices.**

Sun F, Zang W, Huang H, Farkhatdinov I and Li Y. *Ieee Internet of Things Journal vol. PP, (99) 1-1.Institute of Electrical and Electronics Engineers.*

**Cable-driven robotic interface for lower limb neuromechanics identification.**

Huang HY, Farkhatdinov I, Arami A, Bouri M and Burdet E. *Ieee Transactions On Biomedical Engineering 1-1. Institute of Electrical and Electronics Engineers.*

**The influence of posture, applied force and perturbation direction on hip joint viscoelasticity.**

Huang H-Y, Arami A, Farkhatdinov I, Formica D and Burdet E. *Ieee Transactions On Neural Systems and Rehabilitation Engineering.Institute of Electrical and Electronics Engineers.*

**Touch It, Rub It, Feel It! Haptic Rendering of Physical Textures with a Low Cost Wearable System.**

Junput B, Farkhatdinov I and Jamone L.

## 2019

**Idiothetic Verticality Estimation through Head Stabilization Strategy.**

Farkhatdinov I, Michalska H, Alain B and Vincent H. *Ieee Robotics and Automation Letters.Institute of Electrical and Electronics Engineers.*

**Gravito-inertial ambiguity resolved through head stabilization.**

Farkhatdinov I, Michalska H, Berthoz A and Hayward V. *Proceedings of The Royal Society a: Mathematical, Physical and Engineering Sciences vol. 475, (2223).*

---

**Assisting Human Balance in Standing With a Robotic Exoskeleton.**

Farkhatdinov I, Ebert J, Van Oort G, Vlutters M, Van Asseldonk E and Burdet E. *Ieee Robotics and Automation Letters* vol. 4, (2) 414-421.

2018

**Review of Anthropomorphic Head Stabilisation and Verticality Estimation in Robots.**

FARKHATDINOV I, Michalaska H, Berthoz A and Hayward V. *Biomechanics of Anthropomorphic Systems*.Springer.

2017

**Sensory integration of apparent motion speed and vibration magnitude.**

Ogrinc M, FARKHATDINOV I, Walker R and Burdet E. *Ieee Transactions On Haptics*.Institute of Electrical and Electronics Engineers.

**Anticipatory detection of turning in humans for intuitive control of robotic mobility assistance.**

FARKHATDINOV I, Roehri N and Burdet E. *Bioinspiration and Biomimetics*.Iop Publishing.

**Horseback riding therapy for a deafblind individual enabled by a haptic interface.**

Ogrinc M, FARKHATDINOV I, Walker R and Burdet E. *Assistive Technology*.Association For The Advancement of Rehabilitation Technology.

2016

**Deaf-Blind Can Practise Horse Riding with the Help of Haptics.**

Ogrinc M, Farkhatdinov I, Walker R and Burdet E. *Haptics: Perception, Devices, Control, and Applications*.

2013

**Modeling Verticality Estimation During Locomotion.**

Farkhatdinov I, Michalska H, Berthoz A and Hayward V. *Cism International Centre For Mechanical Sciences, Courses and Lectures*.

2009

**A user study of command strategies for mobile robot teleoperation.**

Farkhatdinov I, Ryu JH and Poduraev J. *Intelligent Service Robotics* vol. 2, (2) 95-104.

2008

**Control Strategies and Feedback Information in Mobile Robot Teleoperation.**

Farkhatdinov I, Ryu J-H and Poduraev J. *Ifac Proceedings Volumes* vol. 41, (2) 14681-14686.