



Amaraporn Boonpratong, PhD

Education

2013	Ph.D(Biomechanics), Mechanical, Aerospace and Civil Engineering, the University of Manchester, UK
2010	Post-grad Program, Mechanical Engineering, King's College London, UK
2008	Post-grad Program, Bioengineering, Imperial College London, UK
2007	M. Eng., Mechanical Engineering, SWU-CRMA Jointed post grad program, Srinakharinwirot University, Thailand
2003	B.Eng., Mechanical Engineering, King Mongkut's University Thonburi, Thailand

Professional experience

2013-present	Lecturer in Biomechanics, Department of Biomedical Engineering, Srinakharinwirot University
2013-2015	Assistant Dean for Special Affairs, Faculty of Engineering, Srinakharinwirot University
2007-2008	Lecturer, Department of Mechanical Engineering, Srinakharinwirot University
2003-2004	Field Engineer, Dell Computer (Thailand) Co.,Ltd.

National patents

2017	A mechanism of Labour-saving Home Bed for Bed Ridden Patients Application No. 1701005607
2016	A plantar Pressure Analysis System using Integrated Contact Pressure Sensing and Adjustable Insole Pad, Patent Application No. 1601002860
2015	A Stair Climbing Wheelchair Mechanism, Patent Application No. 1401001088

Selected publications

1. Instability Predicted by Instantaneous Dynamic Stability: A Preliminary Study on Periodic and Fall Recovery Motion. Boonpratong A, Piyakamonnirun W, Viriyothai N, Sangthong K, **11th International Convention on Rehabilitation Engineering and Assistive Technology (i-CREATe 2017)**, Kobe, Japan, 2017
2. Hip and Ankle Regulations that Reduce Defecation Time. Madaeng P, Wongbuangam S, Boonpratong A, **11th International Convention on Rehabilitation Engineering and Assistive Technology (i-CREATe 2017)**, Kobe, Japan, 2017

3. Manual Wheelchair Propulsion Efficiency on Different Slopes. Boonpratotong A, Pantong J, Kiattisaksophon S, Senavongse W, **Waset International Journal of Biomedical and Biological Engineering** Vol.3, No.5, p.381-384,2016.
4. Individual Margins of Instantaneous Dynamic Stability: a Preliminary Study on Periodic and Roller Skating Motion. Boonpratotong A, et al., **Proceeding of the 12th IASTED International Conference on Biomedical Engineering (BioMed)**, p.169-175,2016.
5. The Coefficient of Stiffness during Rising from Bed with Torsional Elastic Platform Assistance. Wannuthat M, Srisuwan T and Boonpratotong A.,**Proceeding of the 14th International Symposium on 3D Analysis of Human Movement**, 2016
6. The Mechanical Advantage of Sit-to-stand Assisted by Elastic Rise-recline Chair. Chitrat C., Sueasakul K. and Boonpratotong A.,**Proceeding of the 14th International Symposium on 3D Analysis of Human Movement**,2016
7. The Effects of Tilt and Friction Coefficients on Manual Wheelchair Propulsion Efficiency. Viriyamatanont T., Chotsangsri S. and Boonpratotong A., **Proceeding of the 14th International Symposium on 3D Analysis of Human Movement**, 2016
8. The Non-Linear Nature of Virtual Human Leg Property during Level Walking. Boonpratotong A, Ren L. **Proceedings of 22nd Congress of International Society of Biomechanics**, 2011.

Contributions

Session chairs

1. Mobility, 11th International Convention on Rehabilitation Engineering and Assistive Technology (i-CREATE 2017), Kobe, Japan, 2017
2. Biomechanics and Sensors Session, 12th IASTED International Conference on Biomedical Engineering, Innsbruck, Austria, 2016
3. Poster Session, the XIV International Symposium on 3D Analysis of Human Movement, Taipei, Taiwan, 2016

Committee

1. Lego Robot Mind-storm Workshops, Hochschule Neu-Ulm and Srinakharinwirot University, Faculty of Engineering, Srinakharinwirot University, 2014-2016
2. Faculty's Image and Public Relation, Faculty of Engineering, Srinakharinwirot University, 2017
3. Curriculum Development of Concert Engineering (International) Program, Faculty of Engineering, Srinakharinwirot University, 2015
4. Curriculum Development of Petroleum Engineering (International) Program, Faculty of Engineering, Srinakharinwirot University, 2015

Scholarships, research funds and awards

2017	Research gap fund, National Science and Technology Development Agency, Thailand
2016	Best Presentation Award, 18 th International Conference on Human Biomechanics, Germany
2015	Research Fund on Fall Prediction and Prevention Projects, Thai Robotic Society, Thailand
2011	The Anglo-Thai Society Educational Awards for Excellence, the Anglo-Thai Society, UK
2010	Central Research Scholarship Fund, Academic Trust Fund, University of London, UK
2009	Imperial College Trust Travelling Fund, Imperial College London, UK
2007	PhD Scholarship in Biomedical Engineering, Office of the Civil Service Commission, Thailand

Research interests

1. Assistive technology for elderly and disabled people
2. Inclusive designs for daily-life products
3. Wearable system for mobility and fall prediction
4. Biomechanical validations of inclusive designed environments and products

Contact

Email: amaraporn@g.swu.ac.th , amarantha_b@hotmail.com
Page: <https://www.facebook.com/idatlab/>
Office: Room 41, Department of Biomedical Engineering
Faculty of Engineering
Srinakharinwirot University
Rungsit-Nakhonnayok Rd.
Ongkharak, Nakhonnayok
Thailand 26120

Tel: +66 2 649 5000 ext 27063