

Curriculum Vitae

Suchada Tantisatirapong



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Education

2015: Doctor of Philosophy (Biomedical Engineering)
School of Electronic, Electrical and Computer Engineering
College of Engineering and Physical Sciences
University of Birmingham, United Kingdom

2007: Master of Engineering Science (Biomedical Engineering)
Graduate School of Biomedical Engineering
University of New South Wales, Australia

2006: Bachelor of Engineering (Computer Engineering)
Department of Electrical and Computer Engineering
National University of Singapore, Singapore

2002: Bridging Course, National University of Singapore, Singapore

Experience

Dec 2007 - present: Lecturer, Department of Biomedical Engineering, Faculty of Engineering, Srinakharinwirot University, Thailand

Sep 2007: Part time employed at Watson Wyatt Thailand – Conducted a survey on job satisfaction of employee at Aromatics Company, Thailand

May 2006: Part time employed at Lomrak School, Samut Songkhram, Thailand

May - July 2004: Internship at NECTEC Project: Study quantum cryptography and developed quantum cryptography demonstration software

Research Interests

Medical Image Processing (e.g. MRI image processing)

Physiological Signal Processing (e.g. EEG and EMG signal processing)

Human-Machine Interaction (e.g. visual spelling)

Awards and Honors

2010-2014: Received the Royal Thai Government Scholarship (National Science and Technology Development) for Doctor of Philosophy Study

2001-2007: Received the Royal Thai Government Scholarship for Undergraduate and Postgraduate Studies

Teaching courses

Software Design and Development
Medical Signal and Image Processing
Biomedical Engineering Laboratory I
Biomedical Engineering Laboratory II
Biomedical Engineering Laboratory III
Biomedical Engineering Research Project I
Biomedical Engineering Research Project II

Publications

Book Chapter

Tantisatirapong, S. ed, (2017). Chapter 3 Basic Principles of Magnetic Resonance Imaging. In: Biomedical Engineering. Bangkok:ThaiBME.org, p.29-46.

Journals

1. Noimanee, S. Senavongse, W. Tantisatirapong, S. Noimanee, K. Implement of medical application over high speed wireless broadband network system in Thailand. *International Journal of Applied Biomedical Engineering*, Vol 8., No.1, 2015.
2. Senavongse, W. Tantisatirapong, S. Patellofemoral Joint Instability: A Biomechanical Study. *International Journal of Applied Biomedical Engineering*, Vol.1, No.1, July-December 2008.

International Conferences

1. Tantisatirapong, S. and Phothisonothai, M. Classification of In Vitro Blood Stages of Plasmodium Falciparum Based on Fuzzy Inference System. *The 10th International Conference on Knowledge and Smart Technology (KST 2017)*, Chiangmai, Thailand, January 31 - February 3, 2018.
2. Tantisatirapong, S. Dechwechprasit, P. Senavongse, W. and Phothisonothai, M. Frequency Based Coherence Analysis of Red and Green Flickering Visual Stimuli for EEG-Controlled Applications. *The 9th International Conference on Knowledge and Smart Technology (KST 2017)*, Pattaya, Thailand, February 1-4, 2017.
3. Dechwechprasit, P. Phothisonothai, M. and Tantisatirapong, S. Time-Frequency Analysis of Red-Green Visual Flickers Based on Steady-State Visual Evoked Potential Recording. *The 9th Biomedical Engineering International Conference (BMEiCON 2016)*, Luang Prabang, Laos, December 7-9, 2016.
4. Phothisonothai, M. Tantisatirapong, S. and Aurasopon, A. Automated Determination of Watermelon Ripeness Based on Image Color Segmentation and Rind Texture Analysis. *The 2016 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2016)*, Phuket, Thailand, October 24-27, 2016.

5. Puttapirat, P. Phothisonothai, M. Tantisatirapong, S. Automated Segmentation of Erythrocytes from Giemsa-Stained Thin Blood Films. *The 8th International Conference on Knowledge and Smart Technology (KST 2016)*, Kantary Hills Hotel, Chiang Mai, Thailand, February 3-6, 2016, p. 219-223.
6. Wongsakorn, P. Phothisonothai, M. Senavongse, W. Tantisatirapong, S. Automated Detection of Plasmodium Falciparum from Giemsa-Stained Thin Blood Films, *The 8th International Conference on Knowledge and Smart Technology (KST 2016)*, Kantary Hills Hotel, Chiang Mai Thailand, February 3-6, 2016, p. 215-218.
7. Tantisatirapong, S. Davies, N.P. Rodriguez, D. Abernethy, L. Auer, D.P. Clark C.A. et al., Combining multi-centre conventional and diffusion MR texture for the characterisation of childhood brain tumours. *Joint Annual Meeting ISMRM-ESMRMB*; Milan, Italy, 2014.
8. Tantisatirapong, S. Davies, N.P. Rodriguez, D. Abernethy, L. Auer, D.P. Clark, C.A. et al. Magnetic resonance texture analysis: Optimal feature selection in classifying child brain tumors. *XIII Mediterranean Conference on Medical and Biological Engineering and Computing*, Seville, Spain: Springer; 2013. p. 309-12.
9. Tantisatirapong, S. Davies, N.P. Abernethy, L. Auer, D.P. Clark, C.A. Grundy, R. et al. Automated processing pipeline for texture analysis of childhood brain tumours based on multimodal magnetic resonance imaging. *10th IASTED International Conference on Biomedical Engineering*; Innsbruck, Austria: ACTA Press; 2013. p. 376-83.
10. Tantisatirapong, S. Davies, N.P. Peet, A.C. Arvanitis, T.N. Brain tumour segmentation based on multimodal magnetic resonance imaging in children. *21st British Chapter ISMRM Postgraduate Symposium*, University of Bristol, Bristol, United Kingdom, 2012.
11. Tantisatirapong, S. Senavongse, W. Phothisonothai, M. Fractal dimension based electroencephalogram analysis of drowsiness patterns, *International Conference on Electrical Engineering/Electronics Computer Telecommunications and Information Technology (ECTI-CON)*, 19-21 May 2010, vol., no., p.497-500.