Curriculum Vitae

Name: Ts. Dr. Alan Ting Huong Yong

List of Research:

Internal Grant

1. UCTS Spraying Drone for Disinfection and Cleaning Activities (3/2021/02)

2. A Severity Diagnostic System for Knee Osteoarthrities using Microsoft Kinect V2 (2/2018/11)

3. 3D Athlete Body Reconstruction and Measurement using Kinect Sensor (4/2016/08)

4. Virtual Badminton Coaching using Markerless Human Motion-Biometric Analysis System (2/2016/03)

External Grant

1. A Proof-of-Concept Study of Using Microsoft Xbox One Kinect (Kinect V2) to Diagnose the Stages of Knee Osteoarthritis (Ministry of Health Malaysia) – Oct 2018 – Oct 2019

2. The Study of Using Automatic Dependent Surveillance-Broadcast Technology for Infrastructure (SDEC) – Oct 2018 – Dec 2020

3. Behavioural Analytics and Real-time Tracking of Patients Using IoT and RFID (Asia-Pacific Telecommunity) – Jan 2021 – Dec 2021

4. Child Developmental Screening Mobile App (Brimedic Sdn. Bhd.) – Jan 2021 – Dec 2022

List of Consultancy:

1. Pedagogy Training (University College of Technology Sarawak), Feb 2019

2. Pedagogy Training (University College of Technology Sarawak), Aug 2020

3. Pedagogy Training (University College of Technology Sarawak), Sept 2021

4. Website Workshop for UCTS Foundation Student (University College of Technology Sarawak), Nov 2017

5. Hour of Code Event 2017 (University College of Technology Sarawak), Nov 2017

6. Programming and Mobile App Workshop (SMK Tung Hua, Sibu), Mar 2019 – May 2019

List of Publications:

1. Ting, H. Y., Sim, K. S., and Abas, F. S. (2017). Adaptive Log-Covariance Quaternions-Based Human Action Recognition System Using RGB-D Sensor. World Applied Sciences Journal, 35(8), 1325-1330

2. Tan, D. Y. W., Ting, H. Y., and Lau, S. B. Y. (2017). On-court Holistic Badminton Training Analytics Framework. World Applied Sciences Journal, 35(8), 1331-1336

3. Ting, H. Y. and Tan, D. Y. W. (2017). Badminton Stroke Movement Comparison Using Kinect-Based Adaptive Range of Movement Index Technique. Indian Journal of Science and Technology, 10(39), 1-5

4. Tan, D. Y. W. and Ting, H. Y. (2017). Kinect-based Badminton Motion Sensor as Potential Aid for Coaching Strokes in Novice Level. Indian Journal of Science and Technology, 10(39), 1-5

5. Lau, S. B. Y., Ting, H. Y., and Tan, D. Y. W. (2018). Cost-Benefit Analysis Reference Framework for Human Motion Capture and Analysis Systems. Advanced Science Letters, 24(2), 1249-1253(5)

6. Ting, J. T. W., Ting, H. Y., Tan, D. W. Y. and Yong, C. Y. (2019). Kinect-Based Badminton Motion Analysis Using Intelligent Adaptive Range of Movement Index. IOP Conf. Series: Materials Science and Engineering, 495 012017

7. Yiiong, S. P., Ting, H. Y., Tan, D. W. Y. and Chia, R. (2019). Investigation of Relation Between Sport's Motion and Heart Rate Variability (HRV) Based on Biometric Parameters. IOP Conf. Series: Materials Science and Engineering, 495 012015

8. Ting, H. Y. and Tang, K. W. W. (2019). Determination of Sarawak's Brinjal Maturity Using Colour Image Processing Technique. Borneo Journal of Sciences and Technology, 1(2), 32-38

9. Lau, I. Y. S., Ting, H. Y. and Toh, T. H. (2021). The Validity of the Microsoft Kinect for Healthy Participants : A Short Review. Borneo Journal of Sciences and Technology, 3(1), 21-28

10. Ting, H. Y., Sim. Y. W., Tay, Y. P. and Wong, E. K. S. (2021). A Universal Traffic Management System for Unmanned Aerial Systems with Or Without Automatic Dependent Surveillance-Broadcast. International Journal of Advanced Research in Technology and Innovation, 3(1), 11-18

11. Wang, K., Khoo, K. S., Leong, H. Y., Nagarajan, D., Chew, K. W., Ting, H. Y., Selvarajoo, A., Chang, J. S. and Show, P. L. (In Press). How does the Internet of Things (IoT) help in microalgae biorefinery? Biotechnology Advances

12. Peter, A. P., Chew, K. W., Koyande, A. K., Sia, Y. H., Ting, H. Y., Rajendran, S., Halimatul Munawaroh, H. S., Yoo, C. K. and Show, P. L. (2021). Cultivation of Chlorella vulgaris on Dairy Waste using Vision Imaging for Biomass Growth Monitoring. Bioresource Technology, 341(125892)

13. Ting, H. Y. and Tan, D. W. Y. (2017). Preliminary Investigation of Movement-Heart Rate Relationship Using Kinect-Based Badminton Performance Analysis. International Conference on Robotics, Automation and Sciences (ICORAS) 2017

14. Ting, H. Y., Wong, P., Pao, D. K. W. and Hii, S. L. (2018). Vision-based Estimation System for Total Phenolic Content in Honey. The National Conference on Agricultural and Food Mechanization 2018 (NCAFM 2018), 108-110

15. Ting, J. T. W., Ting, H. Y., Tan, D. W. Y. and Yong, C. Y. (2018). Kinect-Based Badminton Motion Analysis Using Intelligent Adaptive Range of Movement Index. The 11th Curtin University Technology, Science and Engineering (CUTSE) International Conference

16. Yiiong, S. P., Ting, H. Y., Tan, D. W. Y. and Chia, R. (2018). Investigation of Relation Between Sport's Motion and Heart Rate Variability (HRV) Based on Biometric Parameters. The 11th Curtin University Technology, Science and Engineering (CUTSE) International Conference

17. Ting, H. Y. and Tang, K. W. W. (2018). Determination of Sarawak's Brinjal Maturity Using Colour Image Processing Technique. International Heritage and Cultural Conservation Conference (InHerit 2018)

18. Lau, I. Y. S., Chua, T. T., Lee, W. X. P., Wong, C. W., Toh, T. H. and Ting, H. Y. (2020). Kinect Based Knee Osteoarthritis Gait Analysis System. 2020 IEEE 2nd International Conference on Artificial Intelligence in Engineering and Technology (IICAIET), 1-6

19. Ting, H. Y., Sim. Y. W., Tay, Y. P. and Wong, E. K. S. (2021). A Universal Traffic Management System for Unmanned Aerial Systems with Or Without Automatic Dependent Surveillance-Broadcast. 2nd International Conference on Business, Education, Social and Technology 2021, 1-6

20. Saleh, M. A., Ting, H. Y., Mohamed, N. N. and Almisred, A. A. (2021). Blockchain Applications in Supply Chain: Platform Selection and Literary Analysis. 2021 IEEE 2nd International Conference on Artificial Intelligence in Engineering and Technology (IICAIET)

List of Awards:

1. Bronze Award (Malaysian Association of Research Scientists (MARS), Malaysia) – 2018

2. ITEX Silver Medal (Malaysian Invention and Design Society (MINDS), Malaysia) – 2018

3. Gold Award (Malaysian Association of Research Scientists (MARS), Malaysia), 2019

4. ITEX Silver Medal (Malaysian Invention and Design Society (MINDS), Malaysia) – 2019