

Curriculum Vitae

劉安陞 An-Sheng Liu

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Research interests / 研究領域

Computer vision, visual tracking, surveillance system, intelligent space, and human-machine interaction.

Education / 主要學歷

- National Taiwan University 2012 – Present
PhD in Electrical Engineering
Supervisor : Dr. Li-Chen Fu
- National Sun Yat-sen University 2009 – 2011
B.D. and M.D. in Mechanical and Electro-Mechanical Engineering.
Supervisor : Dr. Chi-Cheng Cheng
Thesis : Intelligent Hand-Eye Coordination Control on Ball Bouncing
“球彈跳之智慧型手眼協調控制”

Awards / Scholarship

- 2016 ARIS Best student paper : 3rd place
- 2015 SICE Annual Conference International Award : 1st place
- 2015 SICE Student Travel Grant Award (STGA)
- 2012-2014 NTU EE Class-A Scholarship

Publication list / 著作列表

- A. S. Liu, Z. J. Li, T. H. Yeh, Y.H. Yang, L. C. Fu, "Partially Transferred Convolution Neural Network with Cross-Layer Inheriting for Posture Recognition from Top-view Depth Camera," *2017 IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2017
- A. S. Liu, T. W. Hsu, P. H. Hsiao, Y. C. Liu and L. C. Fu, "The manhunt network: People tracking in hybrid-overlapping under the vertical top-view depth camera networks," *International Conference on Advanced Robotics and Intelligent Systems (ARIS)*, Taipei, 2016.
- T. W. Hsu, Y. H. Yang, T. H. Yeh, A. S. Liu, L.C. Fu and Y. C. Zeng, "Privacy free indoor action detection system using top-view depth camera based on key-poses," *2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, Budapest, 2016.
- S. C. Lin, A. S. Liu, T. W. Hsu and L. C. Fu, "Representative Body Points on Top-View Depth Sequences for Daily Activity Recognition," *2015 IEEE International Conference on Systems, Man, and Cybernetics*, Kowloon, 2015.
- H. L. Yang, A. S. Liu and L. C. Fu, "Daily activity prediction based on spatial-temporal matrix for ongoing videos," *2015 54th Annual Conference of the Society of Instrument and Control Engineers of Japan (SICE)*, Hangzhou, 2015
- T. E. Tseng, A. S. Liu, P. H. Hsiao, C. M. Huang and L. C. Fu, "Real-time people detection and tracking for indoor surveillance using multiple top-view depth cameras," *2014 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Chicago, IL, 2014
- B. J. Chen, C. M. Huang, A. S. Liu, T. E. Tseng and L. C. Fu, "Hands tracking with self-occlusion handling in cluttered environment," *2013 9th Asian Control Conference (ASCC)*, Istanbul, 2013

Patent / 專利

- Inventor : Li-Chen Fu, Ting-En Tseng, **An-Sheng Liu**, Po-Hao Hsiao
Title : Human image tracking system, and human image detection and human image tracking methods thereof;
Invention Patent No. : US9317765 B2; 2016/04/19.
- 發明人：傅立成, 曾廷恩, **劉安陞**, 蕭伯豪
發明名稱：人型影像追蹤系統及其人型影像偵測方法與追蹤方法
證書案號：中華民國發明第I503756號; 2015/10/11.

Participation of Projects / 參與研究計畫

- 科技部 專題研究計畫(一般型研究計畫) 2015, 2016—2018
「應用於老人照護中心之情境感知個人化照護輔助系統：
年長者於照護中心之日常生活活動、行為辨識與紀錄系統」
- 資策會 創新前瞻技術研究計畫 2016
「異質性設備訊息整合與活動識別分析研究」
- 資策會 創新前瞻技術研究計畫 2015
「CPS系統運用與協調最佳化研究」
- Intel-台大創新研究中心 2013
「M-CHESS: M2M-based Context-Aware Home Energy Saving System」
- 友達光電 台大友達合作委託研究計畫 2012
「手勢追蹤辨認與人機互動技術」