教師簡介 Profile

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主要學歷 Educations	大同大學電機工程博士 大同工學院電機工程碩士 大同工學院電機工程學士
學界經歷 Experiences of academy	中國文化大學機械系專任教授(2013/2-迄今) 中國文化大學機械系數位機電碩士班所長(2015/8-2017/7) 中國文化大學機械系專任副教授(2008/8-2013/1) 台北城市科技大學電子系專任副教授(2005/8-2008/7) 光武技術學院電子系專任講師(1992/8-2005/7)
業界經歷 Experiences of industry	大同公司電子設計處工程師(1987/6-1992/7)
研究領域 Research interests	自動化與智慧型控制(Automatic and Intelligent Control) 嵌入式微控制器應用(Applications of Embedded Microcontroller) 機電系統整合(Mechatronic System) 機器人控制(Robot Control)
教學課程 Teaching courses	機電系統整合 (Mechatronic System)
	嵌入式微控制器之應用(Applications of Embedded Microcontroller)
	機器人互動設計(Robot Interaction Design)
	應用電子學(Applied Electronics)
	程式設計(Program Design)
	電工實驗(Electrical Engineering Lab.)

研究計畫 (Research projects)

國科會(科技部)/教育部 專題研究計畫案

17	MOST 111-2221-E-034-006 - 計畫主持人：蘇國和	輔以深度 6DoF 姿態估測器之身心狀態辨識技術在雙足陪伴機器人之實現 執行期限： 111/08/01 ～ 112/12/31
16	MOST 110-2221-E-034-015 - 計畫主持人：蘇國和	情緒辨識系統之開發及其在互動式機器人之應用 執行期限： 110/08/01 ～ 111/07/31
15	PSK1090334	體驗學習法在機器人控制實務教學之實踐計畫

	計畫主持人：蘇國和	執行期限： 109/08/01 ～ 110/07/31
14	MOST 108-2622-E-034-001-CC3 計畫主持人：蘇國和	以類神經網路實現寵物機器人之互動設計 執行期限： 108/06/01 ～ 109/11/30
13	MOST 107-2622-E-034-002-CC3 計畫主持人：蘇國和	多台搬運機器人路徑導引系統之實現及其在智慧工廠之應用 執行期限： 107/06/01 ～ 108/05/31
12	MOST 106-2221-E-034-001– 計畫主持人：蘇國和	以循環式類神經網路為基礎之身心狀態評估系統開發 執行期限： 106/08/01 ～ 107/07/31
11	MOST 106-2622-E-034-004-CC3 計畫主持人：蘇國和	以雲端結合樹梅派為基礎之無人搬運機器人之夾爪與導引系統開發 執行期限： 106/06/01 ～ 107/05/31
10	MOST 105-2221-E-034-012– 計畫主持人：蘇國和	以類神經網路為基礎之仿生夾爪設計及其在寵物機器人之應用 執行期限： 105/08/01 ～ 106/07/31
9	MOST 104-2221-E-034-007- 計畫主持人：蘇國和	磁浮避震模糊系統之建立及其在足型機器人避震系統之實現 執行期限： 104/08/01 ～ 105/07/31
8	MOST 103-2221-E-034-017- 計畫主持人：蘇國和	磁浮避震器設計及其在往復式足型機器人避震系統之實現 執行期限： 103/08/01 ～ 104/07/31
7	NSC 102-2221-E-034 -005- 計畫主持人：蘇國和	往復式足型機器人導航系統與仿生夾爪開發 執行期限： 102/08/01 ～ 103/07/31
6	NSC 101-2221-E-034-007- 計畫主持人：蘇國和	往復式足型探勘機器人之開發 執行期限： 101/08/01 ～ 102/07/31
5	NSC 100-2221-E-034-004- 計畫主持人：蘇國和	以輪式探測機器人為基礎的環境探測系統 執行期限： 100/08/01 ～ 101/07/31
4	NSC 99-2221-E-034-015- 計畫主持人：蘇國和	以輪式探測機器人為基礎的環境探測系統 執行期限： 99/08/01 ～ 100/07/31
3	NSC 99-2221-E-034 -013 – 共同主持人：蘇國和	電腦視覺應用於微孔陣列位置度誤差與微鑽針製程刀具壽命之研究 執行期限： 99/08/01 ～ 100/07/31
2	NSC 97-2221-E-034 -018 - 計畫主持人：蘇國和	具有類神經觀測器之兩輪獨立驅動載具之研製 執行期限： 97/08/01 ～ 98/07/31
1	NSC 95 - 2221-E-149-019- 計畫主持人：蘇國和	坡度式基因演算法於伺服驅動系統之設計與應用 執行期限： 95/08/01 ～ 96/07/31
科技部 大專生專題計畫案		
1	101 年度大專生參與國科會專題研究計畫，NSC 101-2815-C-034-032-E，中國文化大學，智慧型兩輪自走車平衡控制器之研製，專題學生：李佳駿，指導教授：蘇國和。	
產學合作計畫案		
6	108 年度 柯達科技實業有限公司產學合作計畫: 以類神經網路實現寵物機器人之互動設計 (MOST 108-2622-E-034-001 -CC3)，計畫主持人：蘇國和，2019/06/01 – 2020/11/30。	
5	107 年度 柯達科技實業有限公司產學合作計畫: 多台搬運機器人路徑導引系統之實現及其在智慧工廠之應用 (MOST 107-2622-E-034-002 -CC3)，計畫主持人：蘇國和，2018/06/01 – 2019/05/31。	
4	106 年度 柯達科技實業有限公司產學合作計畫:以雲端結合樹梅派為基礎之無人搬運機器人之夾爪與導引系統開發 (MOST 106-2622-E-034-004 -CC3)，計畫主持人：蘇國和，2017/06/01	

	- 2018/05/31。
3	97 年度 北台灣科技學院 創益科技顧問股份有限公司 產學合作計畫，台北捷運月台鐵軌障礙物偵測 (TSINT-96-ELE-S2)，計畫主持人：蘇國和，2008/03/01 - 2009/02/28。
2	94 年度 北台灣科技學院 群能科技有限公司產學合作計畫，多功能環境監控系統開發與製作 (NTIST-94-ELE-08)，計畫主持人：蘇國和，2006/04/01 - 2006/12/31。
1	92 年度 北台灣科技學院 冠魁電機股份有限公司，單晶片語音播報及顯示系統 (NTIST-92-ELE-04)，計畫主持人：蘇國和，2003/02/01 - 2006/07/31。

研究著作 (Publications)

一、期刊論文

[20] I Wayan Dani Pranata, Phuc Thanh-Thien Nguyen, **Kuo-Ho Su**, Yu-Cheng Kuo, Chung-Hsien Kuo, "Knee Angle Generation with Walking Speed Adaptation Ability for a Powered Transfemoral Prosthetic Leg Prototype," Inventions, vol.8, no.67, pp. 1-22, May 2023.

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三、研討會論文

[66] Xin-Yan Lin, **Kuo Ho Su**, "Implementation of Deep Pose Estimator Based Emotion Recognition System," 2023 Int. Automatic Control Conference (CACS 2023), Penghu, Taiwan, Oct. 26 - 29, 2023.

[65] **Kuo Ho Su**, Chung-Hsien Kuo, Ya-Tang Feng, "Development of companion robot with smart emotion recognition system," 2023 Int. Conf. Applied System Innovation (ICASI 2023), Tokyo(Chiba), Japan, April 21 - 25, 2023.

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[63] **蘇國和**，馮雅棠，“情緒辨識系統之開發及其在互動式機器人之應用,” 2022 Artificial Intelligence Technology and Application (AITA2022)，台中，台灣， 5 月 20 日，2022。

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[61] **蘇國和**, 林宣宏, 許哲維, ”體驗學習法在機器人控制實務教學之實踐計畫,” 2021 教學創新示範國際研討會，5 月 28/29 日，2021，台灣。

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[58] 吳睿宸, **蘇國和**, 宋德震, “輕巧型臉部辨識系統之開發與應用,” Proceedings of 2020 National Symposium on System Science and Engineering (NSSSE 2020), Taichung, Taiwan, May 22-23, 2020.

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[55] Jui-Chen Wu, **Kuo-Ho Su**, Te-Chang Sung, “Implementation of Voronoi-based path planning for automatic guided vehicle,” 2019 Int. Conf. on Fuzzy Theory and Its Application (iFUZZY2019), New Taipei City, Taiwan, Nov. 7-10, 2019.

[54] **蘇國和**, 吳睿宸, “無人搬運車行進路徑規畫及其實現,” 2019 National Conference on Advanced Robotics, Taipei, Taiwan, Aug. 20-23, 2019.

[53] **Kuo Ho Su**, Yuan Hong Zhong, “Design and implementation of smart physical and mental state assessment system,” 2019 Int. Conf. on Smart Science (ICSS 2019), Gunma, Japan, March 30 - April 2, 2019.

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[47] **Kuo-Ho Su**, Yu-Chieh Wang, “Electric vehicle collision avoidance system using backpropagation fuzzy controller,” 2017 Int. Conf. on Fuzzy Theory and Its Application (iFUZZY2017), Pingtung, Taiwan, Nov. 13-15, 2017.

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2017 Int. Conf. on System Science and Engineering (ICSSE2017), Ho Chi Minh City, Vietnam, July 21-27, 2017.

[45] **蘇國和**, 鐘元宏, "影像辨識及其在機器人夾爪之應用,"2017 National Conference on Advanced Robotics, Taipei, Taiwan, Sep. 6-8, 2017.

[44] **蘇國和**, 黃聖翔, "以基因演算法為基礎的 TSK 模糊控制器於寵物機器人之即時追蹤,"Proceedings of 2017 National Symposium On System Science and Engineering (NSSSE2017), Taipei, Taiwan, May 19-20, 2017.

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[30] **蘇國和**, 林謙,“輪型機器人之模糊目標追蹤控制,”2014 台灣智慧型機器人研討會, P. 25, 台北, 台灣, 2014 年 6 月 6-8 日。

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