

國立澎湖科技大學第九任校長候選人資料表

表一、基本資料

姓 名		性別	出生年月日		國籍(含雙重國籍)
徐立群		男			台灣
身分證號碼				護照號碼	
通訊資料	地址：				
	電話：（公）（宅）				
	行動電話：傳真：				
	電子郵件信箱：				
教授證書 (無則免填)		字號：起資年月：			
現職	服務機關學校名稱(請填全銜)		現職(職稱)		專、兼任
	成功大學會計系暨財務金融研究所		教授		專
大學以上學歷(博士↓碩士↓大學)	學 校 名 稱(請填全銜)		院 系 所	學位 名稱	指導者(大學 以下免填)
	美國普渡大學		資訊科學	博士	
	美國路易斯安那大學		電腦科學	碩士	
	中國文化大學		氣象	學士	
教學與行政經歷 (擇要至多十五筆)	服務機關學校		職稱(職級)		專任或兼任 (含兼職)
	成功大學 Fintech 商創研究中心 金融預測分析實驗室		主持人		專任
	長榮大學資訊暨工程學院		院長		專任
	中華民國電腦稽核協會編譯出版委員會		委員		專任
	成功大學會計學系&財金所		副教授		專任
	長榮大學資訊管理學系		副教授		專任
	美國維吉尼亞大學電腦科學系		訪問學者		專任
	資策會航電發展部		訪問學者		專任
	長榮大學資訊管理學系		系主任		專任
	長榮大學計算機中心		主任		專任

表二、著作、作品及發明目錄(請以標楷體繕打，以 1000 字為限)

著作

徐立群〈金融科技(Fintech)如何重塑並創新金融服務?〉，【HBR 導師講座】哈佛商業評論全球繁體中文版，2021 年 1 月號。

期刊論文

1. Bo Hsiao, LihChyun Shu, Fang-Yu Chou: Assessing the efficiency of the accounting industry using multiactivity network DEA: evidence from Taiwan. *Int. Trans. Oper. Res.* 26(6): 2362-2386 (2019).
2. Yanhong Li, Wang Zhang, Rongbo Zhu, Guohui Li, Maode Ma, LihChyun Shu, Changyin Luo: Fog-Based Pub/Sub Index With Boolean Expressions in the Internet of Industrial Vehicles. *IEEE Trans. Industrial Informatics* 15(3): 1629-1642 (2019).
3. Yanhong Li, LihChyun Shu, Rongbo Zhu, Li Li: A novel distributed air index for efficient spatial query processing in road sensor networks on the air. *Int. J. Communication Systems* 30(5) 2017.
4. Quan Zhou, Guohui Li, Jianjun Li, LihChyun Shu, Cong Zhang, Fumin Yang: Dynamic priority scheduling of periodic queries in on-demand data dissemination systems. *Information Systems* 67: 58-70 2017.
5. Yanhong Li, Rongbo Zhu, Guohui Li, LihChyun Shu, Changyin Luo: Probabilistic CkNN Queries of Uncertain Data in Large Road Networks. *IEEE Access* 4: 8900-8913 2016.
6. Hairong Yu, Guohui Li, Jianjun Li, LihChyun Shu: DO_{cyclical}: A Latency-Resistant Cyclic Multi-Threading Approach for Automatic Program Parallelization. *Computer Journal* 59(8): 1155-1173 2016.
7. Guo-Qin Ning, Hongya Wang, LihChyun Shu, GuangRew Yeh: Towards load shedding and scheduling schemes for data streams that maintain quality and timing requirements of query results. *Soft Comput.* 20(5): 1961-1976 (2016)
8. Hairong Yu, Guohui Li, LihChyun Shu: DS_{spirit}: a data dependence and stride reference patterns profiling infrastructure. *The Journal of Supercomputing* 72(2): 770-788 (2016)
9. Yanhong Li, Guohui Li, LihChyun Shu, Qun Huang, Hong Jiang: Continuous Monitoring of Top- k Spatial Keyword Queries in Road Networks. *J. Inf. Sci. Eng.* 31(6): 1831-1848 2015.
10. Yanhong Li, Jianjun Li, LihChyun Shu, Qing Li, Guohui Li, Fumin Yang: Searching continuous nearest neighbors in road networks on the air. *Information Systems* 42: 177-194 2014.
11. Hongya Wang, LihChyun Shu*, Wei Yin, Yingyuan Xiao, and Jiao Cao. "Hyperbolic Utilization Bounds for Rate Monotonic Scheduling on Homogeneous Multiprocessors," *IEEE Transactions on Parallel and Distributed Systems*, 25(6):1501-1521, 2014.
12. Jianjun Li, Ming Xiong, Victor C.S. Lee, LihChyun Shu, and Guohui Li. "Workload-efficient deadline and period assignment for maintaining temporal consistency under EDF," *IEEE Transactions on Computers*, 62(6):1255-1268, June, 2013.
13. Jianjun Li, LihChyun Shu, Jian-Jia Chen, and Guohui Li. "Energy-efficient scheduling in nonpreemptive systems with real-time constraints," *IEEE Transactions on Systems*,

Man, and Cybernetics: Systems, 43(2):332-344, March 2013.

14. Hongya Wang, Yingyuan Xiao, and LihChyun Shu*. "Scheduling periodic continuous queries in real-time data broadcast environments," *IEEE Transactions on Computers*, Vol. 61, No. 9, September 2012.
15. Hui Chen, LihChyun Shu*. "Mining frequent patterns in a varying-size sliding window of online transactional data streams," *Information Sciences*, 215, December 2012. (SCI).
16. Guohui Li, Yanhong Li, Jianjun Li, LihChyun Shu, Fumin Yang: "Continuous reverse k nearest neighbor monitoring on moving objects in road networks," *Information System*,. 35(8): 860-883 (2010).
17. Huey-Min Sun, LihChyun Shu: Optimization scheduling of MPEG-4 FGS video coding stream under the feasible mandatory constraint. *Multimedia Tools Appl.* 44(1): 111-131 (2009).
18. Huey-Min Sun, Yung-Chuan Lin and LihChyun Shu. "The impact of varying frame rates and bit rates on perceived quality of low/high motion sequences with smooth/complex texture," *Multimedia Systems*, 14(1):1-13, June 2008.
19. Guohui Li and LihChyun Shu. "Design and Evaluation of a Low-Latency Checkpointing Scheme for Mobile Computing Systems," *The Computer Journal*, 49(5): 527-540, September 2006 (appeared as part of a special issue on high assurance software systems).
20. Huey-Min Sun, Chia-Mei Chen, and LihChyun Shu. "Object-Based Multimedia Scheduling Based on Bipartite Graphs," *IEICE Transactions on Communications*, Vol. E88-B, No. 1, January 2005.
21. LihChyun Shu, John A. Stankovic, and Sang H. Son. "Achieving Bounded and Predictable Recovery using Real-Time Logging," *The Computer Journal*, 47(3):373-394, May 2004.
22. Huey-Min Sun, Chia-Mei Chen, and LihChyun Shu. "Optimizing Object-based Multimedia Delivery Across Bandwidth Constrained Networks," *The Computer Journal*, 47(5): 579-590, September 2004.
23. LihChyun Shu. "On Avoiding Remote Blocking via Real-Time Concurrency Control Protocols," *Journal of Systems and Software*, 68(2):121-136, November 2003.
24. Ming-Chung Liang, Tei-Wei Kuo, and LihChyun Shu. "A Quantification of Aborting Effect for Real-Time Data Accesses," *IEEE Transactions on Computers*, 52(5):670-675, May 2003.
25. LihChyun Shu and Michal Young. "Versioning Concurrency Control for Hard Real-Time Systems," *Journal of Systems and Software*, 63(3):201-218, September 2002.
26. Tei-Wei Kuo, Ming-Chung Liang, and LihChyun Shu. "Abort-Oriented Concurrency Control for Real-Time Databases," *IEEE Transactions on Computers*, 50(7):660-673, July 2001.
27. Peter Bollmann, Vijay V. Raghavan, Gwang S. Jung, and LihChyun Shu. "On Probabilistic Notions of Precision as a Function of Recall," *Information Processing & Management*, 28(3):291-315, 1992.

會議論文

1. LihChyun Shu and Ju-Kun Chou. Using Deep Learning Techniques to Predict 10-Year US Treasury Yield. 11th International Conference on Information Science and Technology (ICIST 2021), May 21 to May 23, 2021, Chendu, Sichuan, China.

2. Wang Zhang, Yanhong Li, LihChyun Shu, Changyin Luo, Jianjun Li: Shadow: Answering Why-Not Questions on Top-K Spatial Keyword Queries over Moving Objects. 26th International Conference on Database Systems for Advanced Applications (DASFAA 2021): 738-76.
3. LihChyun Shu, Bo Hsiao, Yi-Hsin Liou, Yi-Lin Tsai: On the Selection of Features for the Prediction Model of Cultivation of Sweet Potatoes at Early Growth Stage. IEEE Symposium Series on Computational Intelligence (SSCI 2019): 2981-2988.
4. Meifan Yang, LihChyun Shu and YuChih Wang. Mining Financial News to Predict S&P 500 Index Trend. In Proceedings of International Conference on Innovation and Management (IAM 2019), July 9 to July 12 2019, Hiroshima, Japan.
5. Bo Hsiao, LihChyun Shu, Michal Young, Hsueh-Ching Yang: Using Process Mining to Measure the Expected Costs of Business Processes. PACIS 2016: 264.
6. Bo Hsiao, LihChyun Shu, Shu-Jeng Hsieh: Predicting and testing probability of continuous purchasing of online customers. FSKD 2015: 783-788.
7. Bo Hsiao, LihChyun Shu, Pin-Yeh Chen, Shu-Jeng Hsieh: Trial Plan with Capitation Payment of the National Healthcare Insurance in Taiwan: Establishing a Loyal Patient Selection Model. PACIS 2015: 245.
8. Bo Hsiao, LihChyun Shu, Fang-Yu Chou: Assessing the Efficiency of Accounting firms using Data envelopment Analysis with Multi-Activity Networks. PACIS 2014: 4.
9. Bo Hsiao, LihChyun Shu, Ding-Jiun Wang: Performance Evaluation of the Taiwan Railway Administration. PACIS 2014: 188.
10. Hongya Wang, Jiao Cao, LihChyun Shu, and Davood Rafiei. "Locality Sensitive Hashing Revisited: Filling the Gap Between Theory and Algorithm Analysis," in Proceedings of ACM 22nd International Conference on Information and Knowledge Management (CIKM 2013), Burlingame, CA, October 2013.
11. Hongya Wang, LihChyun Shu, Wei Yin, Jie Jin, Jiao Cao. "The Hyperbolic Schedulability Bound for Multiprocessor RM Scheduling," RTCSA 2012, Seoul Korea, August 2012.
12. LihChyun Shu, Ying-Cheng Su, Chang-Ming Tsai, Huey-Min Sun. "Leveraging the Strengths of Transactional Memory While Maintaining System Performance for a Multiplayer Gaming Application," ICA3PP 2012, Fukuoka, Japan, September 2012.
13. Guohui Li, Yanhong Li, LihChyun Shu, Ping Fan: CkNN Query Processing over Moving Objects with Uncertain Speeds in Road Networks. APWeb 2011: 65-76
14. Hongya Wang, Jie Jin, Zhijun Wang, LihChyun Shu: On a novel property of the earliest deadline first algorithm. FSKD 2011: 197-201
15. Hongya Wang, LihChyun Shu, Zhidong Qin, Xiaoqiang Liu, Jing Cong, Hui Song. "Exploiting Application Semantics in Monitoring Real-Time Data Streams," in Proceedings of the Ninth International Conference on Web-Age Information Management (WAIM 2008), July 20-22, 2008, Zhangjiajie, China.
16. Huey-Min Sun, Mao-Wei Weng, LihChyun Shu: Smoothing Schedule of Partial Data Dropping for MPEG-4 FGS Video Coding Stream. In Proceedings of the Fourth International Conference on Networked Computing and Advanced Information Management, Gyeongju, Korea, September 2-4, 2008 - Volume 2.
17. Huey-Min Sun, Yung-Chuan Lin, and LihChyun Shu. "The Influence of Perceived Quality by Adjusting Frames Per Second and Bits Per Frame under the Limited Bandwidth," in Proceedings of the 9th International Conference on Visual Information Systems (Visual 2007), Shanghai, China, June 2007, Lecture Notes in Computer Science 4781.
18. Huey-Min and LihChyun Shu. "Frame Dropping Control by Video Content

- Characteristics under the Limited Bandwidth,” in Proceedings of 12th International Conference on Distributed Multimedia Systems (DMS 2006), Grand Canyon, Arizona, August 2006.
19. Guohui Li and LihChyun Shu. “A Low-Latency Checkpointing Scheme for Mobile Computing Systems,” in Proceedings of the 29th IEEE Annual International Computer Software and Applications Conference (COMPSAC 2005), Edinburgh, Scotland, July 2005. (selected as one of the 4 best papers from among the 72 papers presented at COMPSAC 2005; there were 278 papers submitted to COMPSAC 2005 (acceptance rate $\cong$ 25.90%); an extended version invited to a special issue on high assurance software systems in *The Computer Journal*)
 20. Chang-Ming Tsai and LihChyun Shu. “Design and Evaluation of Protocols for Maintaining Data Consistency in Intermittently Connected Databases,” in Proceedings of IEEE EEE’05 Workshop on Mobility, Agents, and Mobile Services, Hong Kong, March 2005.
 21. LihChyun Shu and Chang-Ming Tsai. “Concurrency Control for Intermittently Connected Databases,” in Proceedings of the IASTED International Conference on Databases and Applications (DBA 2005), Innsbruck, Austria, February 2005.
 22. Huey-Min Sun, Chia-Mei Chen, and LihChyun Shu. “Optimizing Multimedia Delivery over Bandwidth Limited Networks,” in Proceedings of 13th ACME International Conference on Pacific Rim Management, Seattle, WA, July 2003.
 23. LihChyun Shu, John A. Stankovic, and Sang H. Son. “Achieving Bounded and Predictable Recovery using Real-Time Logging,” in Proceedings of the 8th IEEE Real-Time and Embedded Technology and Applications Symposium, pages 286~297, San Jose, CA, Sept. 2002. (27 papers were accepted out of 89 submitted papers, acceptance rate $\sim$ 30.34%)
 24. Huey-Min Sun, C.M. Chen, LihChyun Shu. “Real-Time Scheduling for Multimedia Streams over Resource-Constrained Networks,” In Proceedings of 8th International Conference on Real-Time Computing Systems and Applications (RTCSA 2002), pages 331-336, Tokyo, Japan, March, 2002.
 25. Huey-Min Sun, C.M. Chen, LihChyun Shu. “Real-Time Multimedia Delivery Over Wireless Networks,” In Proceedings of the 7th International Conference on Distributed Multimedia Systems, pages 138-143, Taipei, Sept. 2001.
 26. LihChyun Shu and Michal Young. “Fault-Tolerant Scheduling under Time and Resource Constraints,” In Proceedings of the 7th IEEE Real-Time Technology and Applications Symposium, Taipei, May, 2001.
 27. LihChyun Shu and Michal Young. “Chopping and Versioning Real-Time Transactions to Avoid Remote Blocking,” In Proceedings of the 7th International Conference on Real-Time Computing Systems and Applications, pages 93-101, Cheju Island, South Korea, December 2000.
 28. LihChyun Shu and Chang-Ming Tsai. “State Restoration in Real-Time Systems,” In Proceedings of the 6th International Conference on Real-Time Computing Systems and Applications, pages 4-12, Hong Kong, December 1999.
 29. LihChyun Shu, Huey-Min Sun, and Tei-Wei Kuo. “Shadowing-based Crash Recovery for Real-Time Database Systems,” In Proceedings of the 11th Euro micro Conference on Real-Time Systems, pages 260-267, York, England, June 1999.
 30. Tei-Wei Kuo, Yuan-Ting Kao, and LihChyun Shu. “A Two-Version Approach for Real-Time Concurrency Control and Recovery,” In Proceedings of the 3rd IEEE International High Assurance Systems Engineering Symposium, pages 279-295, Washington DC, November 1998.

31. LihChyun Shu. "A Characterization of Re-execution Costs for Real-Time Abort-Oriented Protocols," In Proceedings of the 5th International Conference on Real-Time Computing Systems and Applications, pages 286-292, Hiroshima, Japan, October 1998.
32. Kam-yiu Lam, Tei-Wei Kuo, and LihChyun Shu. "On Using Similarity to Process Transactions in Stock Trading Systems," in Proceedings of the IEEE Workshop on Dependable and Real-Time E-Commerce Systems, pages 13-19, Denver, June 1998.
33. LihChyun Shu, Shyue-Horng Shiau, Huey-Min Sun, Chang-Ming Tsai, and Tei-Wei Kuo. "Teaching Real-Time Systems in an Information Systems Program," In Proceedings of the second IEEE Real-Time Education Workshop, pages 19-23, Montreal, Canada, June 1997. (invited paper)
34. Min-Chung Liang, Tei-Wei Kuo, and LihChyun Shu. "BAP: A Class of Abort-Oriented Protocols Based on the Notion of Compatibility," In Proceedings of the 3rd International Workshop on Real-Time Computing Systems and Applications, pages 118-125, Seoul, Korea, October 1996.
35. LihChyun Shu and Michal Young. "Hybrid Online/Offline Scheduling for Hard Real-Time Systems," in Proceedings of 2nd International Symposium on Real-Time and Media Systems, pages 231-240, Taipei, July 1996.
36. LihChyun Shu, Michal Young, and Ragunathan Rajkumar. "An Abort Ceiling Protocol for Controlling Priority Inversion," In Proceedings of the 1st International Workshop on Real-Time Computing Systems and Applications, pages 202-206, Seoul, Korea, December 1994.
37. LihChyun Shu and Michal Young. "A Mixed Locking/Abort Protocol for Hard Real-Time Systems," In Proceedings of the 11th IEEE Workshop on Real-Time Operating Systems and Software, pages 102-106, Seattle, Washington, May 1994.
38. LihChyun Shu and Michal Young. "Real-Time Concurrency Control with Analytic Worst-Case Latency Guarantees," In Proceedings of the 10th IEEE Workshop on Real-Time Operating Systems and Software, pages 69-73, New York, New York, May 1993.

專業活動

Journals

I have reviewed articles for the following journals:

IEEE Transactions on Parallel and Distributed Systems

IEEE Transactions on Computers

Information Systems

Real-Time Systems Journal

The Computer Journal

Journal of Parallel and Distributed Computing

Journal of Computer Science and Technology

Journal of The Chinese Institute of Engineers

The Journal of China Association for Medical Informatics

Peer-to-Peer Networking and Applic

Asian Pacific Management Review

表三、學術獎勵及榮譽事蹟(請以標楷體繕打，二者總字數以 1000 字為限)

(一) 學術獎勵

獲獎與榮譽

- Teaching excellence award, National Cheng Kung University, 2007.
- Distinguished research award, College of Management, National Cheng Kung University, 2006.
- Selected biography, Marquis Who's Who in the World, 2006.
- 2005 IEEE COMPSAC paper was selected as one of the 4 four best papers.
- Teaching excellence award, Chang Jung Christian University, 2002
- National Science Council Research Fellowship, 1999.
- Ministry of Education Industry Visiting Scholarship, 1997.
- David Ross Fellowship, Purdue Research Foundation, 1991-1993.
- Elected member, Upsilon Pi Epsilon honor society in Computer Science, inducted in Oct. 1992.
- Elected member, Phi Kappa Phi honor society, inducted in April 1993.

(二) 榮譽事蹟

執行科技部計畫 (計畫主持人)

- 使用雙曲線邊界於多處理器即時排程之研究
- 在資料廣播環境中對查詢提供時效保證之研究
- 採用 EDF 排程之即時異動其截止時間與週期選定問題之研究
- 在可變動速度處理器上之非搶佔式即時排程
- 處理具有(m,k)時效性要求資料流之負載卸除
- 線上/離線混合式檢查點技術
- 間歇連接式資料庫並行控制之研究
- 運用切割分析於驗證不可分割性之研究
- 植基於切割技術之程式分析

產學合作經歷

計畫主持人	「馬可先生精準行銷之研發」	馬可先生食品公司	2023/8/1~2024/7/31
計畫主持人	「翔睿銷售決策輔助系統之研發」	翔睿環境科技公司	2023/2/1~2024/1/31
計畫主持人	「客戶關係管理系統規劃製作」	蜀隆花卉公司	2021/7/1~2022/12/31
計畫主持人	「持續提升大數據行銷績效之研究」	億進寢具公司	2020/12/1-2021/11/30
計畫主持人	「以搜尋網站收集信貸客戶資訊之研發」	中租迪和公司	2020/7/1-2020/12/31
計畫主持人	「蘭花溫室環境監測系統規劃製作」	蜀隆花卉公司	2020/6/15~2020/9/30
計畫主持人	「應用資料探勘/機器學習於億進寢具實現精準行銷之研究」	億進寢具公司	2018/10/15-2019/10/14
計畫主持人	「契作農地產量與良率預測」	瓜瓜園公司	2017/4/15-2018/10/31
計畫主持人	「電銷舊客貢獻金額預測」	東森信息科技公司	2015/7/1~2015/12/31

應邀講座

- 「哈佛商業評論(HBR)」與「國立中正大學管理學院 Amundi 鋒裕匯理永續投資研究中心」合作開設<HBR x 中正 EMBA>學程授課講師，講題：「金融科技 (FinTech) 如何重塑並創新金融服務？」，December 5, 2021.
- “Using Process Mining to Measure Expected Cost of Business Processes,” Department of Accounting and Information Technology, National Chung Cheng University, December, 2013.
- “The Hyperbolic Schedulability Bound for Multiprocessor RM Scheduling,” Department of Computer Science, National Univeristy of Tainan, January 2013.
- “Concurrent program analysis vs. concurrency control,” School of Computer Science and Technology, Huazhong University of Science and Technology, China, September 2005.
- “Concurrent program analysis vs. concurrency control,” Dept. of Information Management, Chang Jung University, Tainan, Taiwan, June 2006.

表四、治校理念摘要

(請以標楷體繕打，以 3000 字為限，另精簡摘要 500 字以內俾利刊登公報)

一、精簡摘要(500 字以內)：

治校總願景：

以「厚植根基、鏈結在地、創新轉型、永續國際」為發展主軸，推動澎湖科技大學成為「智慧海洋觀光示範大學」。

◆人才培育：

1. 建構「AI+觀光」跨域課程與微學程，如智慧導覽、觀光數據分析、AR/VR 應用等。
2. 建立智慧教學環境與 VR 實驗室，強化學生數位素養與實作能力。

◆在地鏈結與產學合作：

1. 設立「智慧觀光與海洋創新中心」，串聯澎湖地方政府與觀光產業。
2. 推動 AI 導覽系統、旅客行為數據平台，強化觀光產業升級與學生實習就業力。

◆永續發展：

1. 將 SDGs 永續理念融入智慧觀光，導入 AI 生態監測、碳足跡管理與低碳旅遊推動。
2. 建構綠色校園與永續治理體系，落實大學社會責任。

◆國際化拓展：

1. 發展海島大學國際聯盟，與亞太海洋國家合作發展智慧觀光教育。
2. 強化 EMI 多元課程與國際學生招募，提升澎科大國際辨識度與競爭力。

二、治校理念摘要(3000 字為限)：

主軸願景：厚植根基、鏈結在地、創新轉型、永續國際

一、厚植根基：培育前瞻未來的人才

1. 結合 AI 素養與觀光科技教育

全面強化 AI 科技在課程與學習中的應用，特別導入於觀光管理、海洋產業、導覽設計等專業課程中，讓學生具備「AI+海洋觀光」的雙核心能力。推動 X+AI、AI+X 課程模組，涵蓋如「智慧旅遊數據分析」、「沉浸式 AR 導覽」、「觀光偏好預測模型」等。

2. 發展海洋觀光數位學程

設計「智慧觀光與海洋科技」微學程，串聯航港管理、休閒遊憩與 AI 應用，強化學生在離島環境中的實作經驗，打造全國唯一以「智慧海洋旅遊科技」為核心的學程模組。

3. 數位學習與 AI 實作並重

以 MOOCs、Coursera 等平台支援學生進修 AI 技術，並結合智慧觀光情境模擬系統，設立虛擬實境(VR)實驗室與數據分析教室，提升學生數位實務操作能力。

二、鏈結在地：打造智慧海洋觀光產業鏈

1. 發展「AI+觀光+海洋」的創新應用場域

整合澎湖獨有的自然與文化資源，發展智慧導覽、AI 旅遊行為分析、數位生態導覽等新型觀光服務，推動校園成為離島智慧觀光的示範基地。

2. 打造「智慧藍色經濟」示範學校

結合藍色經濟理念與 AI 技術，將澎湖的海洋產業（如漁業體驗、潮間帶生態、賞鯨）升級為智慧化、數據化、綠色化的新型旅遊模式。導入無人機影像蒐集、AI 遊程規劃等技術，創造新型觀光服務業態。

3. 推動產學合作與觀光科技育成

成立「智慧觀光與海洋創新中心」，與地方政府、觀光業者、創新團隊合作開發 AI 應用平台（如遊客流量預測、服務評價分析系統），強化學生就業力與創業潛能。

三、創新轉型：數位治理與智慧校園

1. 建構「智慧觀光教育」示範基地

發展觀光大數據中心，統整海洋氣候資料、遊客行為分析與生態監測數據，作為教學與研究基礎。以 AI 為核心工具，提升學生應用能力與數據素養。

2. 全面強化校內 AI 基礎建設

設立智慧觀光互動展示牆、AR/VR 體驗館、AI 導覽機器人開發專區，打造沉浸式校園科技情境，讓學生能在真實與模擬環境中學習與創新。

3. 開發 AI 輔助校務決策平台

運用 AI 分析招生趨勢、教學成效與產業就業流向，支援學校進行精準策略規劃與資源配置，形塑數據導向的大學治理模式。

四、永續治理：以智慧手段實踐地方責任

1. 智慧觀光與永續發展結合

將 SDGs 核心理念導入智慧觀光設計，特別聚焦在 SDG 11（永續城市與社區）與 SDG 13（氣候行動），以 AI 監控遊客流量、自然生態壓力與碳足跡，促進永續旅遊與環境平衡。

2. 推動低碳智慧旅遊體系

透過 AI 模擬與物聯網技術設計綠色交通接駁系統、無人導覽船與智慧船隻排班調度系統，打造澎湖特色的低碳海洋觀光典範。

3. 智慧治理與開放協作

建立 AI 輔助的大學社會責任平台（USR dashboard），即時呈現澎科大在地參與、永續績效與公民參與成果，提升社會信任與影響力。

五、拓展視野：連結全球的海洋觀光創新網絡

1. 海島國家間的觀光科技聯盟

推動與日本、馬來西亞、印尼、斐濟等海島型國家建立「智慧海洋觀光大學聯盟」，共建跨國學術平台，分享智慧觀光科技與教育資源。

2. 外語與 AI 能力兼備的國際人才養成

鼓勵學生修讀 EMI 課程與智慧觀光相關 AI 技能，並設計「智慧觀光英語」教學模組，提升其國際觀與就業力。

3. 招收國際觀光與 AI 科技學生

設計英語授課的「Smart Ocean Tourism Program」，招收對海洋觀光科技有興趣的國際學生，強化澎科大在亞太地區的品牌辨識度與招生競爭力。

結語：

澎湖科技大學的下一階段，將朝向「智慧海洋觀光大學」的定位發展。本人以結合 AI 科技與地方觀光資源為治理主軸，致力打造一座深度連結地方、科技導向發展、並能與國際接軌的應用型科技大學，讓澎湖的教育，成為台灣邁向「藍色未來」的關鍵力量。

註：本表如不敷使用，請自行延伸。

候選人簽名：

