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學歷	雪城大學 (SYRACUSE UNIVERSITY)	Syracuse, NY
	<ul style="list-style-type: none">• 計算機科學博士 (8 月 1993)<ul style="list-style-type: none">– 論文題目: Efficient Soft-Decision Decoding Algorithms for Linear Block Codes Using Algorithm A*– 1994 雪城大學博士論文獎	
	國立清華大學	新竹
	<ul style="list-style-type: none">• 電機工程碩士 (6 月 1986)• 電機工程學士 (6 月 1984)	
經歷	電子科技大學 (深圳) 高等研究院	深圳
	6 月 2021 – 迄今 教授	
	華為技術有限公司理論實驗室	香港
	3 月 2020 – 3 月 2023 編碼團隊創者	
	東莞理工學院電子工程與智能化學院	東莞
	2 月 2017 – 2 月 2021 傑出人才特聘教授	
	國立台灣科技大學電機工程系	台北
	6 月 2011 – 1 月 2017 講座教授	
	國立台北大學電機資訊學院	台北
	2 月 2015 – 迄今 科技講座教授	
	INSTITUTE OF NETWORK CODING	
	香港中文大學	香港
	6 月 2014 – 9 月 2014 1 月 2015 – 2 月 2015 訪問學者	
	DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE SYRACUSE UNIVERSITY	Syracuse, NY
	7 月 2012 – 6 月 2013 傅爾布萊特訪問學者	

DEPARTMENT OF COMPUTER SCIENCE UNIVERSITY OF HOUSTON 6 月 2011 – 7 月 2011 訪問學者	Houston TX
國立台灣科技大學電機工程系 8 月 2010 – 5 月 2011 教授	台北
國立台北大學通訊工程研究所 8 月 2009 – 7 月 2010 教授兼所長	台北
國立台北大學通訊工程研究所 8 月 2008 – 7 月 2009 教授	台北
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING UNIVERSITY OF TEXAS AT AUSTIN 8 月 2008 – 6 月 2009 訪問學者	Austin, TX
國立台北大學通訊工程研究所 8 月 2004 – 7 月 2008 教授兼所長	台北
國立暨南國際大學資訊工程學系 8 月 1998 – 7 月 2004 教授	埔里
THE NEW YORK STATE CENTER FOR ADVANCED TECHNOLOGY IN COMPUTER APPLICATIONS AND SOFTWARE ENGINEERING (CASE) THE CENTER FOR SYSTEMS ASSURANCE (CSA) DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE SYRACUSE UNIVERSITY 9 月 2002 – 1 月 2004 SUPRIA (Syracuse University Prototypical Research in Information Assurance) 訪問研究學者	Syracuse, NY
DEPARTMENT OF ELECTRICAL ENGINEERING UNIVERSITY OF HAWAII AT MANOA 6 月 2001 – 10 月 2001 訪問學者	Honolulu, HI
國立暨南國際大學資訊工程學系 8 月 1998 – 7 月 2001 計算機與網路中心主任	埔里
國立暨南國際大學資訊工程學系 8 月 1997 – 7 月 1998 副教授	埔里
華梵人文科技學院電子工程學系 9 月 1994 – 7 月 1996	台北

計算機中心主任

華梵人文科技學院電子工程學系
8月1993 – 7月1997
副教授

台北

雪城大學資訊科學系
8月1992 – 8月1993
Graduate Research Associate

Syracuse, NY

雪城大學資訊科學系
8月1989 – 7月1992
Graduate Teaching Assistant

Syracuse, NY

學術服務

IEEE TAIPEI SECTION
January 2007– December 2008
Chair of Educational Activities.

IEEE INFORMATION THEORY SOCIETY TAIPEI CHAPTER
August 2005– July 2007
Chapter Chair.

JOURNAL OF INTERNET TECHNOLOGY
2001-2016
Editor.

INTERNATIONAL JOURNAL OF AD HOC AND UBIQUITOUS COMPUTING
2005-2016
Editor.

INTERNATIONAL JOURNAL OF DISTRIBUTED SENSOR NETWORKS
2010- May 2013
Editor.

THE IEEE INTERNATIONAL WORKSHOP ON AD HOC,
UBIQUITOUS COMPUTING
2006
Co-Chair.

Taichung

THE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY AND ITS
APPLICATIONS 2010 (ISITA 2011)
2010
General Secretary.

Taichung

THE 3RD IEEE INTERNATIONAL CONFERENCE ON SMART GRID
COMMUNICATIONS (IEEE SMARTGRIDCOMM 2012)
2012
Keynote/Panel Chair

Taitan

THE 3RD IEEE INTERNATIONAL CONFERENCE ON SMART GRID
COMMUNICATIONS (IEEE SMARTGRIDCOMM 2012): SMART GRID
COMMUNICATION NETWORKS SYMPOSIUM
2012
Co-Chair.

Taitan

IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE
(IEEE GLOBECOM 2013): COMMUNICATION AND INFORMATION
SYSTEMS SECURITY SYMPOSIUM
2013

Atlanta

Co-Chair.

IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY
SPECIAL SECTION ON VEHICULAR SOCIAL NETWORKS
2013

Guest Editor.

THE 9TH INTERNATIONAL WORKSHOP ON SIGNAL DESIGN AND ITS
APPLICATIONS IN COMMUNICATIONS (IWSDA 2019)
2019

Dongguan

General Co-Chair.

獎勵及榮譽

- **2013, 2013 ACM CCS Test-of-Time 獎**¹
- 2012, 2012-2013 傅爾布萊特資深學者赴美研究獎助金
- 2011, 國立台灣科技大學講座教授
- 2011, 電機電子工程師學會會士 (IEEE Fellow)
- 2010, 國立台灣科技大學研究優良獎
- 2007, 國立台北大學電機與資訊學院研究傑出獎
- 2002-2004, SUPRIA 訪問研究獎勵
- 2000, 八十九年度國科會甲種獎勵
- 2000, 國立暨南國際大學學術績優獎
- 1999, 八十八年度國科會甲種獎勵
- 1998, 八十七年度國科會甲種獎勵
- 1997, 八十六年度國科會甲種獎勵
- **1997**, 一篇論文是 1997 IEEE International Symposium on Information Theory 所選出的 long presentation²
- **1994**, 1994 雪城大學博士論文獎
- 1994, 八十三年度國科會甲種獎助
- 1993, 八十二年度國科會新進人員獎助
- **1993**, 一篇論文是 1993 IEEE International Symposium on Information Theory 所選出的 long presentation

學術會員

- **IEEE Fellow 2011– Elevated by Communication Society for contributions to Decoding Techniques**

研究主題

- 編碼理論– 特別在解碼理論的發展及有效率的解碼程式之設計

¹此獎項主要表揚 10 年前發表於 ACM SIGSAC 的旗艦會議 the ACM Conference on Computer and Communications Security (CCS) 對資訊安全領域有極大影響力的論文。

²被 IEEE International Symposium on Information Theory 選為 long presentation 的論文皆是 Information Theory 和 Coding Theory 領域的國際著名學者們認為將對此領域造成重大影響的文章。每年被此會議接受的論文約 586 篇，其中僅約有 17 篇為 long presentation。

- 人工智能在編碼理論應用- 特別在運用機器學習於解碼理論的發展及有效率的解碼程式之設計
- 無線網路- 特別在感測器網路 (sensor network) 及 ad hoc 網路的保密、資料融合 (data fusion) 及能量控制應用
- 資訊安全- 特別在感測器網路及隱私保存相關的問題
- 無線通訊- 特別在錯誤更正碼的應用及 VLSI 設計

執行計畫

• 國家自然科學基金

1. 1 月 2017- 12 月 2020。线性分组码的两阶段最大似然软判决译码方法，面上項目，計畫主持人。

• 國科會

1. 8 月 2013- 7 月 2016。利用錯誤更正碼在無線感測網路位置偵測之研究，計畫主持人。
2. 8 月 2012- 7 月 2015。再生碼在分散式儲存系統應用的研究，計畫主持人。
3. 8 月 2010- 7 月 2013。編碼理論在雲端計算容錯及個人隱私應用的研究，計畫主持人。
4. 8 月 2010- 7 月 2011。基於錯誤控制碼的有效分散式網路儲存的研究，計畫主持人。
5. 8 月 2007- 7 月 2010。去尾迴旋碼之軟性決定解碼之研究，計畫主持人。
6. 8 月 2007- 7 月 2010。利用 MDS 碼在無線感測器網路上有效率建立保密通道，計畫主持人。
7. 8 月 2006- 7 月 2007。無線感測器網路上密鑰交換之研究，計畫主持人。
8. 8 月 2005- 7 月 2007。針對訊息長度偵測之循環冗餘檢查碼的研究，計畫主持人。
9. 8 月 2004- 7 月 2005。編碼理論在無線感測器網路的資料融合應用研究，計畫主持人。
10. 8 月 2003- 7 月 2004。第四代無線通訊之 WOFDM 下行傳輸技術研究 (3/3)-子計畫一：行動無線通道上 WOFDM 傳輸系統之編碼技術研究，計畫主持人。
11. 8 月 2002- 7 月 2003。Fano Metric 之推廣及循序解碼程式，計畫主持人。
12. 8 月 2001- 7 月 2002。第四代無線通訊之 WOFDM 下行傳輸技術研究 (1/3)-子計畫一：行動無線通道上 WOFDM 傳輸系統之編碼技術研究，計畫主持人。
13. 8 月 1999- 7 月 2002。國家寬頻實驗網路上整體醫療服務系統之研究-子計畫五：多媒體醫療資訊儲存及傳輸的安全性研究，計畫主持人。
14. 8 月 1999- 7 月 2001。台灣學術網路/研究網路連線計畫-暨南大學，計畫主持人。
15. 8 月 1999- 7 月 2001。線性塊狀碼幾何搜尋解碼演算法的研究，計畫主持人。
16. 8 月 1998- 7 月 1999。迴旋碼的最大可靠度軟性決定循序解碼的研究，計畫主持人。
17. 8 月 1997- 7 月 1998。線性塊狀碼硬性解碼的研究，計畫主持人。
18. 8 月 1995- 7 月 1996。啟發性資訊在線性格狀碼之軟性決定解碼上的影響，計畫主持人。
19. 8 月 1994- 7 月 1995。線性格狀碼之軟性決定解碼的研究，計畫主持人。

• 工業界

1. 6 月 2025- 11 月 2026。基于 FFT 以及 RMT 的 RS 快速编译码技术合作项目，計畫主持人。(華為科技有限公司)
2. 9 月 2023- 9 月 2025。BCH 新型译码研究探索，計畫主持人。(希奧端(深圳)計算技术有限公司)
3. 1 月 2024- 1 月 2025。后量子密码算法研究，量子计算和先进压缩算法调研，計畫主持人。(希奧端(深圳)計算技术有限公司)
4. 9 月 2023- 8 月 2024。加解密及存储编解码算法原型开发，計畫主持人。(希奧端(深圳)計算技术有限公司)

5. 2 月 2022– 2 月 2023。級聯軟判糾錯碼性能的理论分析與研究，計畫主持人。(華為科技有限公司)
6. 3 月 2020– 3 月 2023。信息理論研究，計畫主持人。(華為科技有限公司)
7. 8 月 2010– 6 月 2011。
8. 12 月 2010– 9 月 2011。多階層快閃記憶體之 BCH 解碼器及 CRC 檢查電路整合設計，計畫主持人。(鑫創科技)
9. 8 月 2010– 6 月 2011。低閘數多階層快閃記憶體之 LDPC 碼的設計，計畫主持人。(鑫創科技)
10. 11 月 2009– 9 月 2010。基於 Welch-Berlekamp 演算法的多階層快閃記憶體之 VLSI 設計，計畫主持人。(鑫創科技)
11. 7 月 2009– 5 月 2010。多階層快閃記憶體之 LDPC 碼的設計，計畫主持人。(鑫創科技)
12. 11 月 2007– 7 月 2008。AES 的 VLSI 設計，計畫主持人。(鑫創科技)
13. 8 月 2007– 6 月 2008。低閘數多階層快閃記憶體之錯誤控制碼的設計，計畫主持人。(鑫創科技)
14. 8 月 2006– 4 月 2007。高效率多階層快閃記憶體之錯誤控制碼的設計，計畫主持人。(鑫創科技)
15. 1 月 2006– 1 月 2007。第三點五代行動通訊系統錯誤更正演算法研究發展，計畫主持人。(凌陽科技)

著作

• 專書論文

1. Y. S. Han and P.-N. Chen, “Sequential Decoding of Convolutional Codes,” *Encyclopedia of Telecommunications* (Editor: John Proakis), New York, Wiley, 2002, pp. 2140-2146.

• 期刊論文

1. W. Yan, Y. S. Han, and G. Yang, “On Some Properties for Universal Coding of Integers and Its Generalization,” *IEEE Trans. on Communications*, pp. 8587-8596, May, 2025. **(Full paper)**
2. J. Li, H. Cai, X. Tang, Y. S. Han, B. Bai, and G. Zhang, “Vector Locally Repairable Codes With Small Repair Bandwidth and Small Sub-packetization Levels,” *IEEE Trans. on Communications*, pp. 2906-2920, May, 2025. **(Full paper)**
- 3.
4. C. Chen, Y. S. Han, N. Tang, X. Ma, and B. Bai, “Parallel Welch-Berlekamp Algorithm,” *IEEE Trans. on Information Theory*, pp. 3473 - 3488, May 2025. **(Full paper)**
5. N. Wang, S. Xu, C. Qin, S.-J. Lin, S. Shao, and Y. S. Han, “High-Capacity Framework for Reversible Data Hiding Using Asymmetric Numeral Systems,” *IEEE Trans. on Knowledge and Data Engineering*, pp. 8447 - 8461, December, 2024. **(Full paper)**
6. L. Yu, S.-J. Lin, and Y. S. Han, “A Class of Rateless Reed-Solomon Codes with Near-Linear Computational Complexities,” *IEEE Trans. on Communications*, pp. 6677 - 6687, November, 2024. **(Full paper)**
7. L. Yu, Y. S. Han, J. Yuan, and Z. Zhang, “Variant Codes Based on A Special Polynomial Ring and Their Fast Computations,” *IEEE Trans. on Communications*, pp. 5255 - 5267, September, 2024. **(Full paper)**
8. W. Yan and Y. S. Han, “Generalized Universal Coding of Integers,” *IEEE Trans. on Communications*, pp. 4538 - 4550, August, 2024. **(Full paper)**
9. L. Yu and Y. S. Han, “Construction of Reed-Solomon Erasure Codes with Four Parities Based on Systematic Vandermonde Matrices,” *IEEE Trans. on Computers*, pp. 1875-1882, July, 2024.

10. Z. Li, W. H. Mow, Y. S. Han, and T.-Y. Wu, "Generalization of Minimum Storage Regenerating Codes for Heterogeneous Distributed Storage Systems," *IEEE Trans. on Information Theory*, pp. 4022 - 4043, June, 2024. **(Full paper)**
11. N. Tang, C. Chen, and Y. S. Han, "Fast Error and Erasure Decoding Algorithm for Reed-Solomon Codes," *IEEE Communications Letters*, pp. 759-762, April, 2024.
12. C. Quan, Y. S. Han, B. Geng, and P. K. Varshney, "Distributed Quantized Detection of Sparse Signals Under Byzantine Attacks," *IEEE Trans. on Signal Processing*, pp. 57-69, January, 2024. **(Full paper)**
13. N. Wang, W. Yan, H. Jiang, S.-J. Lin, and Y. S. Han, "Prefix Coding Scheme Supporting Direct Access without Auxiliary Space," *IEEE Trans. on Knowledge and Data Engineering*, pp. 12917-12931, December, 2023. **(Full paper)**
14. J. Li, Y. Liu, X. Tang, Y. S. Han, B. Bai and G. Zhang, "MDS Array Codes With (Near) Optimal Repair Bandwidth for All Admissible Repair Degrees," *IEEE Trans. on Communications*, pp. 5633 - 5646, October, 2023. **(Full paper)**
15. C. Quan, S. Bulusu, B. Geng, Y. S. Han, N. Sriranga and P. K. Varshney, "On Ordered Transmission based Distributed Gaussian Shift-in-Mean Detection under Byzantine Attacks," *IEEE Trans. on Signal Processing*, pp. 3343 - 3356, September, 2023. **(Full paper)**
16. W. Yan, S.-J. Lin, and Y. S. Han, "A New Metric and the Construction for Evolving 2-Threshold Secret Sharing Schemes Based on Prefix Coding of Integers," *IEEE Trans. on Communications*, pp. 2906-2915, May, 2023. **(Full paper)**
17. J. Rui, Q. Huang, Y. S. Han, and T.-Y. Wu, "Optimal Busy-Node Repair of $(k+4, k, 4)$ MDS Codes with Small Sub-packetization Level," *IEEE Communications Letters*, pp. 1080-1084, April, 2023.
18. J. Li, X. Tang, H. Hou, Y. S. Han, B. Bai, and G. Zhang, "PMDS Array Codes with Small Sub-packetization, Small Repair Bandwidth/Rebuilding Access," *IEEE Trans. on Information Theory*, pp. 1551-1566. March, 2023. **(Full paper)**
19. C. Quan, N. Sriranga, H. Yang, Y. S. Han, B. Geng, and P. K. Varshney, "Efficient Ordered-Transmission Based Distributed Detection under Data Falsification Attacks," *IEEE Signal Processing Letters*, pp. 145-149, February, 2023.
20. H. Hou, Y. S. Han, P. P. C. Lee, Y. Wu, G. Han, and M. Blaum, "A Generalization of Array Codes with Local Properties and Efficient Encoding/Decoding," *IEEE Trans. on Information Theory*, pp. 107-125, January, 2023. **(Full paper)**
21. N. Tang and Y. S. Han, "A New Decoding Method for Reed-Solomon Codes Based on FFT and Modular Approach," *IEEE Trans. on Communications*, pp. 7790-7801, December, 2022. **(Full paper)**
22. L.-H. Chang, P.-N. Chen, F. Alajaji, and Y. S. Han, "Decoder Ties Do Not Affect the Error Exponent of the Memoryless Binary Symmetric Channel," *IEEE Trans. on Information Theory*, pp. 3501-3510, June, 2022. **(Full paper)**
23. C. Quan, B. Geng, Y. S. Han, and P. K. Varshney, "Enhanced Audit Bit Based Distributed Bayesian Detection in the Presence of Strategic Attacks," *IEEE Transactions on Signal and Information Processing over Networks*, pp. 49 - 62, January, 2022. **(Full paper)**
24. Z. Li, S.-J. Lin, P.-N. Chen, Y. S. Han, and H. Hou, "Update Bandwidth for Distributed Storage," *IEEE Trans. on Information Theory*, pp. 7159-7179, November, 2021. **(Full paper)**
25. L. Deng, Y. Yu, Y. Zhang and Y. S. Han, "Comparing Delay-Constrained ALOHA and CSMA: A Learning-Based Low-Complexity Approximate Approach," *IEEE Open Journal of the Communications Society*, vol. 2, pp. 1721-1735, 2021. **(Full paper)**
26. Y. S. Han, C. Chen, S.-J. Lin, and B. Bai, "On Fast Fourier Transform-Based Decoding of Reed-Solomon Codes," *Int. J. Ad Hoc and Ubiquitous Computing*, pp. 180-187, 36(3), 2021. **(Invited paper)**

27. N. Wang, S.-J. Lin, Y. S. Han, and N. Yu, "Variants of Golomb Coding and the n -ary Versions," *IEEE Trans. on Communications*, pp. 7460-7472, December, 2020. **(Full paper)**
28. H. Hou, Y. S. Han, and P. C. C. Lee, "Two Classes of Binary MDS Array Codes with Asymptotically Optimal Repair for Any Single Column," *IEEE Trans. on Communications*, pp. 6723-6736, November, 2020. **(Full paper)**
29. H. Hou, P. C. C. Lee, and Y. S. Han, "Zigzag-Decodable Reconstruction Codes with Asymptotically Optimal Repair for All Nodes," *IEEE Trans. on Communications*, pp. 5999-6011, October, 2020. **(Full paper)**
30. H.-Y. Lin, P.-N. Chen, Y. S. Han, and P. K. Varshney, "Minimum Byzantine Effort for Blinding Distributed Detection in Wireless Sensor Networks," *IEEE Trans. on Signal Processing*, pp. 647-661, 2020. **(Full paper)**
31. L. Yu, Z. Lin, S.-J. Lin, Y. S. Han, and N. Yu, "Fast Encoding Algorithms for Reed-Solomon Codes with between Four and Seven Parity Symbols," *IEEE Trans. on Computers*, pp. 699-705, May, 2020.
32. H. Hou, Y. S. Han, P. C. C. Lee, Y. Hu, and H. Li, "A New Design of Binary MDS Array Codes with Asymptotically Weak-Optimal Repair," *IEEE Trans. on Information Theory*, pp. 7095-7113, November, 2019. **(Full paper)**
33. S.-J. Lin, Y. S. Han, and N. Yu, "New Locally Correctable Codes Based on Projective Reed-Muller Codes," *IEEE Trans. on Communications*, pp. 3834-3841, June, 2019. **(Full paper)**
34. L.-H. Chang, P.-N. Chen, V. Y. F. Tan, C. Wang, and Y. S. Han, "On the Maximum Size of Block Codes Subject to a Distance Criterion," *IEEE Trans. on Information Theory*, pp. 3751-3757, June, 2019. **(Full paper)**
35. H. Cao, S.-J. Lin, W. Zhang, and Y. S. Han, "On the Security of Secret Sharing over a Ring and the Fast Implementation," *IEEE Signal Processing Letters*, pp. 705-709, May, 2019.
36. C. Chen, S.-J. Lin, and Y. S. Han, "Extended Versions of Polynomial Remainder Codes and Chinese Remainder Codes," *IEEE Communications Letters*, pp. 2407-2410, December, 2018.
37. L. Deng, W. S. Wong, P.-N. Chen, Y. S. Han, and H. Hou, "Delay-Constrained Input-Queued Switch," *IEEE Journal on Selected Areas in Communications (JSAC): special issue on Emerging Technologies in Tactile Internet and Backhaul/Fronthaul networks*, pp. 2464-2474, November, 2018. **(Full paper)**
38. H. Hou, Y. S. Han, K. W. Shum, and H. Li, "A Unified Form of EVENODD and RDP Codes and Their Efficient Decoding," *IEEE Trans. on Communications*, pp. 5053 - 5066, November, 2018. **(Full paper)**
39. H. Hou and Y. S. Han, "A Class of Binary MDS Array Codes with Asymptotically Weak-Optimal Repair," *SCIENCE CHINA Information Sciences*, pp. 100302:1-100302:11, October, 2018. **(Invited paper)**
40. C.-Y. Wei, H.-Y. Lin, P.-N. Chen, Y. S. Han, and P. K. Varshney, "Target Localization Using Sensor Location Knowledge in Wireless Sensor Networks," *IEEE Wireless Communications Letters*, pp. 456-459, July, 2018.
41. Y. S. Han, T.-Y. Wu, P.-N. Chen, and P. K. Varshney, "A Low-Complexity Maximum-Likelihood Decoder for Tail-Biting Convolutional Codes," *IEEE Trans. on Communications*, pp. 1859-1870, May, 2018. **(Full paper)**
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