個人資料－陳以德

基本資料

中文姓名	英文姓名	
陳以德	I-Te Chen	

主要學歷

畢／肄業學校	國別	主修學門系所	學位	起訖年月
國立交通大學	中華民國	資訊工程系博士班	博士	1998 至 2005
國立政治大學	中華民國	教師英文第二專長班結業	學士	1998
國立交通大學	中華民國	資訊工程學系碩士班	碩士	1995 至 1997
國立政治大學	中華民國	應用數學系 輔修教育系	學士	1992 至 1995
國立高雄工專	中華民國	電子工程科	專士	1983 至 1989

現職及與專長相關之經歷

服務機關	服務部門／系所	職稱	起訖年月
現職：高雄醫學大學	醫務管理暨醫療資訊學系	副教授	2014/8 迄今
	學務處課外活動組	組長	2019/8 迄今
現職：中華民國	資訊安全學會	理事	2015/5 迄今
經歷：中華民國	資訊安全學會	副秘書長	2013/8~2018/5
經歷：高雄醫學大學	推廣教育暨社會資源中心, 推廣教育組	組長	2007/8~2015/7
經歷：高雄醫學大學	基礎科學教育中心	副教授	2013/8~2014/7
經歷：高雄醫學大學	通識教育中心	助理教授	2006/2~2013/7
經歷：高雄醫學大學	清雲科技大學 文藻外語學院	講師	2003-2005
經歷：中華電信研究所	網路信賴服務	專案助理研究員	2001-2002

經歷：交通大學	推廣教育中心	工程人員	1999-2001
經歷：基隆市培德工家	資訊科、數學科	專任教師	1997-1998
經歷：資策會、交大網路與軟體培訓班	自強基金社、NDL、台北大東海、台中東華補習班	講師	1996~1999
經歷：陸軍航空指揮部	資訊室(服役單位)		

專長

網路系統架構	網路安全	密碼方法	數學	醫療資訊交換

研究成果目錄

(A)期刊論文

1. **I-Te Chen**, Yu-Hsien Chiu, Han-Chun Liao, Jer-Min Tsai, Wen-Hsien Ho, Chen-Sen Ouyang*, "Multisensors-based Verification Mechanism with Encryption and Decryption on Fault-tolerant databases," Sensors and Materials, Accepted, Feb. 2020. (IF=0.468, Materials Science/Multidisciplinary 280/293 =95.56%) [SCI]

2. Chun-I Fan, Jheng-Jia Huang, Shang-Wei Tseng and **I-Te Chen**[*] "Dependable Data Outsourcing Scheme Based on Cloud-of-Clouds Approach," IEEE Transactions on Cloud Computing, doi:10.1109/TCC.2018.2871181, September, 2018. (IF=5.967, Computer Science/ Information systems 6/155=3.87%) [SCI]

3. Chun-I Fan, **I-Te Chen**[*], Chen-Kai Cheng, Jheng-Jia Huang, and Wen-Tsuen Chen, "FTP-NDN: File Transfer Protocol Based on Re-Encryption for Named Data Network Supporting Non-Designated Receivers," IEEE System Journal, recommended publication, Volume:22, Issue:1, pp.473 - 484, March, 2018. (IF=4.463, Computer Science/Information systems 15/155= 9.68%) [SCI]

4. Jer-Min Tsai, **I-Te Chen**, Ying-Fong Huang and Cheng-Che Lin[*], "Watermarking Technique for Improved Management of Digital Medical Images," Journal of Discrete Mathematical Sciences & Cryptography, Vol. 18, No. 6, pp.785-799, December, 2015. [EI]

5. Fu-I Chou, Yi-Lung Chiang, **I-Te Chen** and Jinn-Tsong Tsai*, "Genetic Algorithm for Optimal Resolution Planning in DOE-based Taguchi Method," Journal of Chinese Society of Mechanical Engineers, Vol.36, No.6, pp.481~490, Dec, 2015. (IF=0.274, Engineering, Mechanical 114/125=91.2%) [SCI]

6. Shi HY, Hwang SL, Lee IC, **Chen IT**, Lee KT,* Lin CL, "Trends and Outcome Predictors after Traumatic Brain Injury Surgery: A Nationwide Population-Based Study in Taiwan," Journal of Neurosurgery, Vol. 121, No. 6, pp. 1323-1330, Dec 2014. IF=3.148, Surgery 21/198=10.6% [SCI]

7. **I-Te Chen** "Random Numbers Generated from Audio and Video Sources," Vol. 2013, Article ID: 285373, Mathematical Problems in Engineering, 2013. (IF: 1.082, Engineering, multidisciplinary 33/87= 37.93%) [SCI]

8. **I-Te Chen**, Jinn-Tsong Tsai, Ching-Feng Wen and Wen-Hsien Ho*, "Artificial neural network with hybrid Taguchi-genetic algorithm for nonlinear MIMO model of machining processes," Int. J. of Innovative Computing, Information and Control, Vol. 9, No.4, pp.1455-1475, April, 2013. [EI]

9. **I-Te Chen**, Jer-Min Tsai, and Jengnan Tzeng[*], "Re-encryption method designed by Row

Complete Matrix," Vol. 2012, Article ID: 402890, Mathematical Problems in Engineering. [SCI] (IF: 0.777, Engineering, multidisciplinary 42/90=46.67%)

10. Jer-Min Tsai, Jengnan Tzeng, and **I-Te Chen***, "Random Number Generated from white noise of Video," ICIC Express Letter, Vol.6, No.7, pp. 1827-1832, July, 2012. [EI]

11. Wen-Hsien Ho, Shinn-Horng Chen, **I-Te Chen**, Jyh-Horng Chou and Chun-Chin Shu* "Design of Stable and Quadratic-Optimal Static Output Feedback Controllers for TS-Fuzzy-Model- Based Control Systems: An Integrative Computational Approach," International Journal of Innovative Computing, Information and Control, Vol.8, No.1(A), pp. 403-418, January 2012. [EI]

12. Chieh-Fan Chen, Wen-Hsien Ho, Shu-Mei Yang, **I-Te Chen** and Hon-Yi Shi*, "Long-term prediction of emergency department revenue and visitor volume using autoregressive integrated moving average model", Computational and Mathematical Methods in Medicine, Vol. 2011, Article ID 395690. [SCI/EI] IF: 0.814, Mathematical & Computational Biology 30/37 = 81.08%

13. Ming-Hsin Chang, **I-Te Chen***, and Ming-Te Chen, "Enhance ECDSA to Identity-based Proxy Signature Scheme," Journal of Information Assurance and Security (JIAS), Vol.5 Issue 4, pp. 360-366. 2010.

14. Yi-Shiung Yeh, Ting-Yu Huang, **I-Te Chen***, and Shih-Chin Chou, "Analyze SHA-1 in message schedule," Journal of Discrete Mathematical Sciences & Cryptography, Vol. 10(2007), No. 1, pp.1-7. Feb. 2007. [EI]

15. Yi-Shiung Yeh, **I-Te Chen***, Ting-Yu Huang, and Chan-Chi Wang, "Dynamic Extended DES," Journal of Discrete Mathematical Sciences & Cryptography, Vol. 9, No.2, pp.321-330, Aug. 2006. [EI]

16. **I-Te Chen**, Ming-Hsin Chang, and Yi-Shiung Yeh "Design of proxy signature schemes in the Digital Signature Algorithm (DSA)" Journal of Information Science and Engineering, Vol. 22 No. 4, pp. 965-973, July 2006. [SCI/EI] Impact Factor 0.268 Computer Science, Information Systems 77/83 = 92.8%

17. **I-Te Chen**, and Yi-Shiung Yeh "Security analysis of Transformed-Key Asymmetric Watermarking System," IEEE Signal Processing Letters, Vol. 13, Issue 4, pp.213- 215, April 2006. [SCIE/EI] Impact Factor 0.611 Engineering, Electrical & Electronic 117/208 56.25%

18. Yi-Shiung Yeh, **I-Te Chen***, and Chan-Chi Wang, "Randomizing Encryption Mode" Journal of Discrete Mathematical Sciences & Cryptography, Vol. 8(2005), No.3, pp.355-364, DEC. 2005. [EI]

19. **I-Te Chen**, and Yi-Shiung Yeh, "Proxy Signature Scheme Based on Quadratic Residues," Asian Journal of Information Technology, Vol. 4 No. 5, pp. 541-549, May, 2005.

20. Yi-Shiung Yeh, Ming-Hsin Chang, **I-Te Chen*** and I-Chen Wu "Schnorr Blind Signature Scheme based on Elliptic Curves," Asian Journal of Information Technology, Vol. 2 No. 3, pp.130-134, July-September, 2003.

21. Yi-Shiung Yeh, Wei Shen Lai, and **I-Te Chen***, "An N-D Cryptoscheme," Journal of Information & Optimization Sciences, Vol. 23, No.1, pp. 19-36, Jan. 2002. [EI]

22. 蔡哲民, 曾正男, **陳以德***, "參數式列完備矩陣之轉加密方法," 資訊安全通訊, Communications of the CCISA, Vol. 21 No. 4, pp.22-31, October, 2015.

23. 曾正男, **陳以德***, "利用破壞自格函數的平滑性設計之亂數產生器," 資訊安全通訊, Communications of the CCISA, Vol. 15 No. 1, pp.22-31, January, 2009.

24. 簡文山、**陳以德**、郭乃文、楊哲銘, "可攜式電子病歷的初步安全基礎架構---以 TMT 為例," 資訊安全通訊, Communications of the CCISA, Vol. 14 No. 4, pp.149-161, October 10, 2008.

25. 張靜芬, 郭宏亮, <u>陳以德</u>, 盧 天鴻* "MRI 作業場所的電磁輻射強度之調 查," 中華民國環境保護學會學刊, Journal of the environmental protection society, Vol. 30 No. 2, pp. 114-122, Feb. 2007. ISSN: 0254-0010.

26. Chan-Chi Wang, Wei Shen Lai, <u>**I-Te Chen**</u>*, and Yi-Shiung Yeh, "一個同態墊塞機制," Journal of Computers, Vol.16, No.5, pp.17-21, June 2005

(B)研討會論文

1. <u>**I-Te Chen**</u>, Han-Chun Liao, Jer-Min Tsai, Wen-Hsien Ho, "Secure Access and Transmission in Modular Cloud Computing System," International Multi-Conference on Engineering and Technology Innovation (IMETI), Poster Presentation SE9011, Kaohsiung Taiwan, November 15-19, 2019.

2. Cheng-Yuan Wang, Wen-Yu Ho, Ying-Fong Huang, Jer-Min Tsai, <u>**I-Te Chen**</u>, and Jer-Chia Tsai, "Genetic-Psycho-Social-Biological Encounter (GPSBE) SOAP mind map approach for clinical reasoning and medical record: A pilot study for medical clerk ship in general internal medicine," Association for Medical Education in Europe (AMEE), Poster Presentation. 7HH9 (19628) 30 August~3 September 2014.

3. Jer-Min Tsai, <u>**I-Te Chen**</u>, and Jengnan Tzeng*, "Rounding error type random number generator designed by subspace projection," International Workshop on Cloud Computing and Information Security (CCIS 2013), Paper ID: CS29252, pp.123-126, Shanghai, 2013.11-9~11.

4. Yu-Hsien Chiu, Hao-Yun Kao, <u>**I-Te Chen**</u>, I-Nong Lee, Wen-Hsien Ho, Liang-Yu Chen, Pin-Han Huang, Sin-Hao Chen, Chih-Yun Liu, Hsiao-Yan Lu, "A Body-Sensed Motor Assessment System for Stroke Upper-Limb Rehabilitation: A Preliminary Study," 2013 IEEE International Conference on Systems, Man, and Cybernetics, pp.3819- 3824, 13-16 Oct. 2013.

5. Jer-Min Tsai, <u>**I-Te Chen**</u>, Ying-Fong Huang and Cheng-Che Lin*, "Watermarking Technique for Improved Management of Digital Medical Images," The Second Cross-Straits Conference on Information Security (CSCIS 2013), pp.13-25, 2013. 9.11~13.

6. Shi, H.-Y, Tsai, J.-T, Ho, W.-H, Wang, S.-C, <u>**Chen, I-Te,**</u> Lee, K.-T, "Comparison of artificial neural network and logistic regression models for predicting in-hospital survival after hepatocellular carcinoma surgery," Society of Instrument and Control Engineers of Japan, SICE 2012, Article number:6318640, pp. 1262-1265, Akita, 2012.8.20~23.

7. Jengnan Tzeng, Jer-Min Tsai and <u>**I-Te Chen**</u>*, "Secure File Sharing in the Cloud by Row Complete Matrix Re-encryption Method," Innovative Management, Information & Production in Otaru (IMIP2011 Excellent paper award), pp.13-24, October 8-10, 2011.

8. <u>**I-Te Chen**</u>, Jer-Min Tsai, and Jengnan Tzeng*, "Audio Random Number Generator and its Application," IEEE International Conference on Machine Learning and Cybernetics (ICMLC 2011, ISBN 978-1-4577-0305-8), pp.1678-1683, July 10-13, 2011. [EI]

9. Jer-Min Tsai, <u>**I-Te Chen**</u>*, and Jengnan Tzeng, "Random number generated from white noise of webcam," IEEE International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 2009, ISBN 978-1-4244-4717-6), pp.214-217, September 12-14, 2009. [EI]

10. Jengnan Tzeng, <u>**I-Te Chen**</u>*, and, Jer-Min Tsai "Random Number Generator designed by the divergence of scaling functions," IEEE International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 2009, ISBN 978-1-4244-4717-6), pp.1038-1041, September 12-14, 2009.[EI]

11. Ming-Hsin Chang, <u>**I-Te Chen**</u>*, and Ming-Te Chen "Design of Proxy Signature in ECDSA," IEEE International Conference on Intelligent Systems Design and Applications (ISDA

2008, ISBN 978-0-7695-3382-7), Vol.3, pp. 17~22, 2008.11.26-28. [EI]

12. **I-Te Chen**, Yi-Shiung Yeh, and Ming-Hsin Chang, "Proactive secret sharing proxy signature scheme with proxy share recovery," International Association for Computer Information Systems (IACIS) Pacific 2005. pp. 52-58. 2005.5.20.

13. 李榮祥, 黃泓源, 林佩蓁, 吳昊叡, 魯亭萱, 陳以德*, "手語溝通辨識系統," 臺灣網際網路研討會(TANET 2019), 2019.9.25~27.

14. 鄭宜嵐, 何文獻, 鄭雅倫, 陳以德*, "運用機器學習演算法於肌電圖手勢訊號辨識," 全國計算機會議 National Computer Symposium (NCS 2017), 2017.12.14~15

15. 蔡哲民, 曾正男, 陳以德*, "參數式列完備矩陣之轉加密方法," 全國資訊安全會議 (CISC2015), pp. 129-133, 2015.5.28~29.

16. 蔡哲民, 陳以德, 楊東霖, 劉澔暐, "以手機搖動亂數為基礎的 LBS 餐廳選擇器," NCS 2013.

17. 林皇辰, 黃英峰*, 鍾相彬, 陳以德, 蔡哲民, "核子醫學全身骨掃描及鎵-67 掃描影像融合," International Symposium on Frontier Biomedical and Molecular Imaging(ISFBMI), Poster. Nov. 5-6, 2011.

18. 盧天鴻, 陳以德, 黃英峰, 蔡哲民, 林正哲*"運用 Watermark 增進電子病歷影像之安全性,"第 14 屆電子商務研討會, 2010.10.30.

19. 陳以德, 曾正男, 蔡哲民*, "適用於多媒體時代的亂數產生器," 2010 International Conference on Multimedia Communication Technology and Application (IMCTA 2010),台南, pp.35-42, 2010.10.29

20. 李正崙, 朱慧媛, 孫靖婷, 楊縢清, 廖晏辰, 莊峻鴻, 陳以德*, 陳明德, "結合憑證之安全電子病歷傳輸系統," 全國計算機會議 National Computer Symposium (NCS 2009), 2009.11.27~28

21. 葉義雄, 陳以德*, 黃定宇, 及周士欽, "分析與改進 SHA-1 的訊息處理模式,"全國資訊安全會議 (CISC2005), 2005.6.9~10.

22. 陳以德, 李正國 "利用層級分析法進行國中生教育類網站評鑑," 「學習與創造‧教育與創新」國際研討會論文集, pp. 354-364, 2005.5.20.

(c)研究計畫

1. 高雄醫學大學計畫(KMU-M109007)，FHIR 生醫物聯網之安全分析與研發，主持人，2020/1/1~2020/12/31，主持人, 190,000.-

2. 科技部，智慧機器人應用在失智病人居家遠距照護之創新模式，2019/6/1~2020/5/31，協同主持人，

3. 科技部，健走加認知同步訓練對思覺失調症個案認知功能之成效:手機軟體開發與成效驗證，2018/08/01~2021/07/31，107-2410-H-037 -006 -MY3，共同主持人，2,763,000

4. 教育部，資通訊軟體創新人才推升推廣 A 類計畫：健康/醫學軟體人才培育計畫，培育健康/醫學軟體人才，2018.2~2019.1

5. 科技部，健康促進與照護器材產學技術聯盟跨領域技術服務提升計畫(1/3)，2017/02/01 ~ 2018/01/31，106-2622-8-037 -001 -TB1，共同主持人，2,400,000

6. 高雄醫學大學教學創新實踐計畫，網路攻防演練，2017/09/01~2018/01/31，45,000

7. 高雄醫學大學產品導向計畫, 擬人化醫療資訊紀錄方法及輔助診療系統, PT105003, 106/4/1~107/7/31, 主持人, 200,000.-

8. 中山高醫，整合生醫訊號之雲端化安全電子病歷系統，103/1/1~103/12/31, NSYSUKMU

103-I- 001, 子計畫主持人, 480,000

2. 國科會，密碼與亂數產生系統之研發，2013/08/01~2014/07/31，102-2218-E-168-001-，協同主持人，373,000

3. 中山高醫，直覺式安全電子病歷之研發，102/1/1~102/12/31, NSYSUKMU-P001, 主持人, 400,000

4. 教育部，公民素養陶塑計畫，2011/8/1-2013/1/31，計畫參與人。9,000,000.-

5. 國科會，植基於個人設備之亂數產生器，2010-2011，NSC 99-2221-E-037-004, 主持人, 490,000.-

6. 高雄醫學大學教學卓越計畫主軸六 – 子計畫二：以雲端服務創造友善便利的數位學習環境，2014/8-今，子計畫主持人。

7. 高雄醫學大學教學卓越計畫主軸一 – 子計畫二：厚植語文、資訊能力與文化素養，2013/1-今，子計畫參與人。

8. 高雄醫學大學教學卓越計畫主軸二 – 子計畫四：提升語文與資訊能力，2011/1-2012/12，子計畫參與人。

9. 高雄醫學大學教學卓越計畫主軸一 – 子計畫六：建構數位學習環境，提升學生資訊能力，2008/8-2010/12，子計畫主持人。

10. 高雄醫學大學教學卓越計畫主軸五 – 子計畫三：建置全校學習社群網路，促進學生合作學習，2007/8-2009/7，子計畫主持人。

11. 教育部中綱計畫，「人文數位教學計畫-臺灣醫病書寫的數位教學」2010/2/1 ~2010/7/31，主持人-數位教學部分。150,450.-

12. 教育部中綱計畫，「人文數位教學計畫-紅樓夢數位化教學與創作」2010/2/1 ~2010/7/31，協同主持人-數位教學部分。191,150.-

13. 教育部中綱計畫，「人文數位教學計畫-蘇東坡的文學與文化」2008/8/1 ~2009/1/31， 協同主持人-數位教學部分。153,630.-

14. 教育部中綱計畫，「人文教育革新計畫-文化創意產業」，2007/8-2008/1，主持人。127,440.-

15. 工研院，數位電視 – Security Manager Part 主持人，2005-

(D)專利

(獲證)

1. 美國發明專利(US 13/364,797, 公開號: US 2013/0204915A1, 授權 US 8793296 B2)：Random number generating method, 2014-07-29

2. 美國發明專利(US 13/422,159, 公開號: US2013/0246789A1, 授權 US 8533493 B1)：Method for Securing Transmission Data, 2013-9-10

3. 美國發明專利(公開號：US-2015-0261925-A1)：Avatar-based Charting System for Assisted Diagnosis 2014-3-14, 2015-9-17 公開

4. 發明專利(證號: I462009)：亂數產生方法, 2014-11-21 獲證

5. 發明專利(證號: I488476)：基於完整列矩陣之再加密方法, 2015-06-11 獲證

6. 發明專利(證號: I501189)：擬人化醫療資訊紀錄方法及輔助診療系統, 2015-09-21 獲證

7. 發明專利(證號: I505228)：一種自主復健動作量化評估系統, 2015-10-21 獲證

8. 發明專利(證號: I509556)：目標導向復健輔助系統與其工作設定方法, 2015-11-21 獲證

9. 發明專利(證號: I591569)：復健動作編輯與圖形化評量系統, 2017-07-11 獲證

10. 發明專利(證號:I621870)：X 光機輻射劑量攝影參數估測系統及其估測方法,2018-04-21 獲證

11. 新型專利(證號:M563135)：組合式支架, 2018-07-1 獲證

(申請中)

12. 發明專利(申請號:)：一種擴增實境動作編輯與評估系統, 2013-8-5

13. 發明專利(申請號: 105110617)：資料加解密系統及其加解密方法(一種門檻式存取驗證之容錯式資料庫加解密方法與系統), 2016-04-1