


I-Te Chen Curriculum vitae

Basic information

Chinese name	English name	
陳以德	I-Te Chen	

Schools	Department	Degree	Start and end date
National Chiao-Tung University	Computer Science and Information Engineering	Ph.D.	1998~2005
National Cheng-Chi University	Second specialty course - English teacher	Bachelor	1998
National Chiao-Tung University	Computer Science and Information Engineering	Master	1995~1997
National Cheng-Chi University	Mathematical Science minored in education	Bachelor	1992~1995
National Kaohsiung Institute of Technology	Electronic Engineering	College	1983~1989

Current post

Service agencies	Department	Affiliation	Start and end date
Kaohsiung Medical University	Healthcare Administration and Medical Informatics	Chair	2021/8 ~ Now
		Associate Professor	2014/8 ~ Now
Republic of China	Cryptology and Information Security Association	director	2015/5 ~ Now

Experience

Kaohsiung Medical University	Extracurricular Activities Section	Chief	2019/8~2021/8
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Republic of China	Cryptography and Information Security Association	Vice-secretary, Director	2013/8~2018/5
Kaohsiung Medical University	Continuing Education & Social Resources	Chief	2007/8~2015/7
Kaohsiung Medical University	Fundamental Science	Associate Professor	2013/8~2014/7
Kaohsiung Medical University	General Education Center	Assistant Professor	2006/2~2013/7
Chien-Hsin University of Science and Technology;	Kaohsiung Medical University; Wenzao Ursuline University of Languages	Lecturer	2003-2005
Chunghwa Telecom Laboratories	Internet trust services	Assistant Researcher	2001-2002
Pei-Teh Industrial and Home Economics Vocational High School	Information, Mathematics	teacher	1997-1998

Specialty

EMR

Security

Cryptography

Watermark

Information Exchange

Honor

2010, 2014 KMU Excellent teacher
2017 KMU Excellent Tutor (Astronomical club)
2013~2017 Excellent Patent certificate teacher

Research

(A) Journal Papers

1. Rung-Shiang, Lee, Hung-Yuan Huang, Pei-Zhen Lin, Hao-Rui, Wu, Ting-Shyuan Lu, **I-Te Chen*** "Sign language recognition system using CNN," 2021.7 submitted to IEEE Access, 2021. (IF=3.745 ,) [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, Volume: 9, Issue: 2, 546-561, June 1 2021. (IF=4.714, Computer Science/Theory & Methods 11/108= 10.19%) [SCI]

3. **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*, Volume:32, Number: 6(3), pp.2187-2197, June 30, 2020. (IF=0.759, Instruments & Instrumentation 59/64 =92.19%) [SCI]
4. 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*, Volume:22, Issue:1, pp.473 - 484, March, 2018. (IF=4.463, Computer Science/Information systems 15/155= 9.68%) [SCI]
5. 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]
6. 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]
7. 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]
8. **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]
9. **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]
10. **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%)
11. 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]
12. 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]
13. 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%
14. 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.
15. 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]
16. 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]
17. **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%
18. **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%
19. 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]
20. **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.
21. 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.
22. 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]
23. **陳以德**、陳胤彤、蔡哲民, “以屬性加密為基礎的輕量化雙向認證,” 資訊安全通訊, Communications of the CCISA, Vol. 27 No. 2, pp.41-65, May, 2021.
24. 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.
25. 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.
26. 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.
27. 張靜芬, 郭宏亮, **陳以德**, 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.
28. Chan-Chi Wang, Wei Shen Lai, **I-Te Chen***, 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) Conference Papers

10. Cheng-Yuan Wang, Yao-Siang Lai, **I-Te Chen***, Wen-Hsien Ho*, “Design of Assisted Medical Diagnosis E-learning System,” International Multi-conference on Engineering and Technology Innovation (IMETI) 2021, October 29 - November 02, 2021.
11. Kuan-Yuan Wang, Cheng-Sheng Chen, Hui-Mei Chen, and **I-Te Chen**, “A Pilot Study of an Innovative Model of Care Delivery: Service Robot for Older People with Dementia in a Rural Community,” Innovation Aging ; 4(Suppl 1): pp. 927–928, 2020.
12. **I-Te Chen**, 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.
13. Cheng-Yuan Wang, Wen-Yu Ho, Ying-Fong Huang, Jer-Min Tsai, **I-Te Chen**, 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.
14. Jer-Min Tsai, **I-Te Chen**, 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.

2. Jer-Min Tsai, **I-Te Chen**, 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.
3. Shi, H.-Y, Tsai, J.-T, Ho, W.-H, Wang, S.-C, **Chen, I-Te**, 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.
4. Jengnan Tzeng, Jer-Min Tsai and **I-Te Chen***, “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.
5. **I-Te Chen**, 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]
6. Jer-Min Tsai, **I-Te Chen***, 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]
7. Jengnan Tzeng, **I-Te Chen***, 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]
8. Ming-Hsin Chang, **I-Te Chen***, 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]
9. **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.
15. **陳以德**, 曾煥松, 李昭賢*, “基於公開金鑰基礎建設之物聯網快速雙向認證,”第 31 屆全國資訊安全會議, A2-03, August 5-6, 2021.
16. 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.
17. 鄭宜歲, 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
18. 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.
19. 蔡哲民, **陳以德**, 楊東霖, 劉濤暉, “以手機搖動亂數為基礎的 LBS 餐廳選擇器,” NCS 2013.
20. 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.
21. 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.
22. **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
23. 李正崙, 朱慧媛, 孫靖婷, 楊騰清, 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

24. 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.

25. **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) Patent

(Certified)

1. United States Patent (US 13/364,797, Publication No.: US 2013/0204915A1, Authorize No.: US 8793296 B2) : Random number generating method, 2014-07-29
2. United States Patent (US 13/422,159, Publication No.: US2013/0246789A1, Authorize No.: US8533493 B1) : Method for Securing Transmission Data, 2013-9-10
3. United States Patent (Publication No.: US 10,061,898 B2) : Avatar-based Charting System for Assisted Diagnosis, 2018-8-28
4. ROC Patent (Authorize No.: I462009) : 亂數產生方法(Method for Random Number Generation), 2014-11-21
5. ROC Patent (Authorize No.: I488476) : 基於完整列矩陣之再加密方法(Re-encryption method based on row-complete matrix), 2015-06-11
6. ROC Patent (Authorize No.: I501189) : 擬人化醫療資訊紀錄方法及輔助診療系統(Avatar-based Charting System for Assisted Diagnosis), 2015-09-21
7. ROC Patent (Publication No.: I505228) : 一種自主復健動作量化評估系統 (A Self-care system for assisting quantitative assessment of rehabilitation movement), 2015-10-21
8. ROC Patent (Publication No.: I509556) : 目標導向復健輔助系統與其工作設定方法(Goal-oriented rehabilitation assistance system to their work setting method), 2015-11-21
9. ROC Patent (Publication No.: I591569) : 復健動作編輯與圖形化評量系統, 2017-07-11 獲證
10. ROC Patent (Publication No.: 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. ROC Patent (Publication No.: M563135) : 組合式支架, 2018-07-1 獲證

(D) Research Project

1. Ministry of Science and Technology , A study of bystander intention and behavior to prevent dating violence among college students --Application of the Theory of Planned Behavior to explore, construct and evaluate dating violence education programs , 2021/08/01 ~ 2023/07/31 , 110-2410-H-037 -005 -SS2 , Co-Principal Investigator , 1,508,000.-
2. Zhu En Industrial Co., Ltd. , Industry-University Cooperation , Currency exchange machine test S108024 , Chairman , 2020/3/20~ 2020/12/31 , 100,000.-
3. Kaohsiung Medical University Project (KMU-M109007) , FHIR Biomedical IoT Security Analysis and R&D , 主持人 , 2020/1/1~2020/12/31 , Chairman, 190,000.-
4. Ministry of Science and Technology , Innovative model of smart robot application in home remote care of patients with dementia , Co-Principal Investigator , 2019/6/1~ 2020/5/31
5. Ministry of Science and Technology , The effects of simultaneous training of walking and cognitive tasks on cognitive functions of people with schizophrenia: the development of mobile application

- system and effectiveness analysis , 2018/08/01~2021/07/31 , 107-2410-H-037 -006 -MY3 ,
Co-Principal Investigator , 2,763,000
6. Ministry of Science and Technology , Health promotion and nursing equipment industry-academia
technology alliance cross-field technical service improvement (1/3) , 2017/02/01 ~ 2018/01/31 ,
106-2622-8-037 -001 -TB1 , Co-Principal Investigator , 2,400,000
 7. Kaohsiung Medical University , Teaching Innovation Practice Project , Network offense and defense
drill , 2017/09/01~2018/01/31 , 45,000
 8. Kaohsiung Medical University Product Orientation Program, Avatar-based Charting System for
Assisted Diagnosis, 106/4/1~107/7/31, PT105003, Chairman
 9. NSYSUKMU, Cloud-based electronic medical records system security integration of biomedical
signals, 103/1/1~103/12/31, NSYSUKMU 103-I-001, Sub-program Chairman
 10. Ministry of Science and Technology, Random number generator of the R&D system,
2013/08/01~2014/07/31 , 102-2218-E-168-001- , Collaborative Chairman
 11. NSYSUKMU, Intuitive development of secure electronic medical records , 102/1/1~102/12/31,
NSYSUKMU-P001, Chairman
 12. Ministry of Science and Technology, Random number generator based on personal equipment ,
2010-2011 , NSC 99-2221-E-037-004, Chairman
 13. KMU Teaching Excellence Project, 2007/8~, Sub-program Chairman
 14. Ministry of Education, “cultural and creative industries,” 2007/8-2008/1, Chairman