

Dr. Hou, Cheng-I Ph.D.
No. 2-8, 1st Neighborhood, Liudong
Toufen Township, Miaoli County, 35163 Taiwan
E-MAIL: cihou@chu.edu.tw
CELL: 0913-147-741

Education:

Ph.D. Information Systems, Nova Southeastern University,
Davie, FL. U.S.A. (1993)
M.S. Computer Science, Nova University, Davie, FL. U.S.A.
(1987)
B.S. Computer Science, Slippery Rock University, Slippery
Rock, PA. U.S.A. (1986)

Research areas:

Software Engineering, Artificial Intelligence, Wisdom
Tourism, Leisure Agriculture and Farm Planning

Work Experience:

Academic:

Chung Hua University, Hsinchu Taiwan

- Associate Professor 2015-Present
- Department of Tourism and MICE

**Yu Da University of Science and Technology, MiaoLi
Taiwan**

- Associate Professor 2008-2015
 - Department of Leisure Management
- Assistant Professor 2002-2008
 - Department of Information Management
 - Department of Leisure Management

Nova Southeastern University, Davie, FL. USA 1996

Adjunct Professor

- Taught C++ Programming Language to master's students through the Internet. Required knowledge of HTML to develop Web page to help students gain proficiency in object oriented constructs.

**Fort Lauderdale College, Fort Lauderdale, FL. USA
1994**

Adjunct Professor

- Taught C Programming Language to undergraduate students. Designed and delivered lectures and lab time to help the students gain proficiency in structured concepts.

Piper Community School, Fort Lauderdale, FL. USA
1993-1995

Teacher

- Part-time teaching of C, C++ programming and UNIX Operating System to adults in an informal atmosphere. Classes consisted of lectures with hands-on work to help communicate advanced concepts to students.

Nova University, Davie, FL. USA 1988-1993

Graduate Assistant

- Designed software for the office automation tools. Required knowledge of C, C shell programming, INGRES database, PC and UNIX operating system skills.
- Conducted research on Developing X Window and GUI applications.

Professional/Technical:

Aether Systems, INC., Boca Raton, FL. USA 2000-2001
Software Engineer

Software design and development for the Wireless Instant Messaging System.

- Designed and developed system to run on the Pocket PC platform. Demonstrated a thorough knowledge of Embedded Visual C++ and Windows NT and CE Operation Systems.
- Developed the technical menu document of the Instant Messaging System for both technical and non-technical readers.
- Proven self-starter, met aggressive deadlines under pressure with minimal supervision.

Hospitality Solution International, Boca Raton, FL.
USA 1998-2000

Software Engineer

Software development for the Point Of Sale (POS) system.

- Developed enhancements for the system to be integrated with the existing software, requiring a thorough knowledge of C, Visual C++ and Visual Basic, and Windows NT Operation System.
- Developed an application as a tool to debug the existing software.

TSI International Software LTD. Boca Raton, FL. USA
1997-1998

Software Engineer

Software development for the Mercator integration system.

- Developed enhancements for the system to be integrated with the existing software. Required a thorough knowledge of C and Visual C++.

Sensormatic Electronics Corp., Boca Raton, FL. USA

1995-1997

Senior Engineer

Software development for the Asset Tracking system for the C-Cure 800 Access Control System line. Required a thorough knowledge of Visual C++, Progress database system SQL & 4GL programming, and Windows NT Operating System.

Software development for the AC500 Access Control System line.

- Developed enhancements for the system to be integrated with the existing hardware and software. Required a thorough knowledge of C, Informix SQL, and Vermont Views as well as knowledge of the differences between AIX, SCO UNIX, and XENIX operating system.
- Taught a course of work related design and developments using C++ language.

BUC International, Fort Lauderdale, FL. USA

1993-1994

Programmer

- Developed software for internal needs. Required a thorough knowledge of statistic skills and tools as well as a good knowledge of C, C++ programming language, INGRES Database system, ESQL programming, and HP-UX 9000 Series 800.

International Journals:

1. **C.I. Hou**, H.C. Huang, Y.H. Tsai, C.Y. Lo, "Research on Decision Making Regarding High-Business-Strategy Cafe Menu Selection", International Journal of Computer Science & Information Technology, Vol. 7, No. 2, pp. 89-97, 2015. (EI)
2. C.T. Lin, **C.I. Hou**, S.Y. Huang, "Supplier Selection with Structure Equation Models," International Journal of Advanced Engineering Research and Science, Vol.2, No. 1, pp. 14-23, 2015.
3. H.C. Huang, **C.I. Hou**, T.S. Lan, "CNC Parametric Optimization for Exercise Equipment Parts Surface Roughness Using TRIZ," TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol.12, No. 12, pp. 8200-8204, 2014. (EI)
4. H.C. Huang, **C.I. Hou**, T.S. Lan, M.C. Chiu "Development of Distant Monitoring Interface Technology for Health Care Equipments," International Journal of Information Processing and Management, Vol. 5, No. 4, pp. 45-53, 2014. (EI)
5. **C.I. Hou**, H.C. Huang, T.S. Lan, M.Y. Wang "Production Quality and Process Management Mechanism of Bike Metal Parts," Journal of Next Generation Information Technology, Vol. 5, No. 3, pp. 25-37, 2014. (EI)
6. **C.I. Hou**, H.C. Huang, "A Study on Coffee Product Categories Sold in Landscape Coffee Shops," PENSEE Journal, Vol. 76, No. 9, pp. 22-29, 2014. (SSCI)
7. **C.I. Hou**, H.C. Huang, T.S. Lan, W.M. Teng "Remote Real-Time Process

- and Production Monitoring Mechanism of Lighting Parts for Outdoor Recreation,” *International Journal of Computer Science & Information Technology*, Vol. 6, No. 4, pp. 185-193, 2014. (EI)
8. **C.I. Hou**, C.Y. Lo, Y.T. Chang, S.L. Ho, “The Analysis of System Dynamic Relationship among Students in Weekend Di Zi Gui Class Seminar,” *International Journal of Leisure Information Management*, Vol. 2, No. 1, pp. 34-40, 2014.
 9. **C.I. Hou**, P.C. Lan, C.Y. Lo, Y.Y. Lien, “A Research of the Dynamic Relationship of the English Learning Effect in Elementary Schools,” *Advanced Management Journal*, Vol. 1, No. 2, pp.8-14, 2014.
 10. C.Y. Lo, **C.I. Hou**, R. Ma, M.L. Tsai, “Analyze the differences of Miaoli County Junior High School Students in Participating Recreational Activities,” *International Journal of Leisure Business Management*, Vol. 2, No. 1, pp. 37-44, 2014.
 11. H.C. Huang, **C.I. Hou**, C.Y. Lo, “A Fuzzy Multi-Criteria Decision Making Approach for Business Partner Selection,” *International Journal of Leisure Information Management*, Vol. 2, No. 1, pp. 7-13, 2014.
 12. **C.I. Hou**, C.Y. Lo, H.C. Huang, “A Study on Coffee Product Categories Sold in Landscape Coffee Shops,” *Research Journal of Applied Sciences and Technology*, Vol.1, pp. 1-8, 2014.
 13. **C.I. Hou**, C.Y. Lo, K.L. Chen, P.C. Lin, “Research on the types of Participation in Recreational Activities of Teaching Staff in a Senior High School,” *International Journal of Leisure Information Management*, Vol. 2, No. 1, pp. 27-33, 2014.
 14. C.Y. Lo, **C.I. Hou**, H.I. Chang, H.Y. Liu, “Evaluate the Selection of Out-of-school Teaching Activity Sites by Teachers of Special Education Classes in Junior High Schools,” *International Journal of Leisure Business Management*, Vol. 2, No. 1, pp. 30-36, 2014.
 15. C.Y. Lo, **C.I. Hou**, C.Y. Huang, M.R. Chang, “AHP Application of the Decision-Making Choice of Chain Hot Pot Restaurants,” *International Journal of Leisure Information Management*, Vol. 2, No. 1, pp. 21-26, 2014.
 16. T.S. Lan, H.C. Huang, **C.I. Hou**, “Research of General Deduction Optimization on PEMFC Manufacturing with Fuzzy Linguistic,” *Mathematical Problems in Engineering*, Vol. 2014, Article ID 894652, 8 pages, 2014. (SCI)
 17. **C.I. Hou**, H.C. Huang, C.Y. Lo, U.H. Tsai, “A Study of Using AHP to Discuss Landscape Cafe Site Selection,” *Advanced Management Journal*, Vol 1, No 1, pp.1-7, 2014.
 18. **C.I. Hou**, H.C. Huang, C.Y. Lo, “Study on Decision Making to Construct Coffee Shop E-commerce Websites,” *International Journal of Leisure Business Management*, Vol. 2, No. 1, pp. 12-19, 2014.
 19. **C.I. Hou**, “Study On Decision-Making For Café Management Alternatives”, *International Journal of Computer Science & Information Technology*, Vol 5, No 6, pp. 67-75, 2013. (EI).
 20. **C.I. Hou**, C.Y. Lo, H.C. Huang, “The Views of Workers in the Leisure Industry on Karma,” *International Journal of Leisure Information Management*, Vol.1, No.2, pp. 5-11, 2013.
 21. H.C. Huang, **C.I. Hou**, Y.H. Tasi, “Construction of a Forecasting Model Using an Artificial Intelligence Neural Network,” *International Journal of Intelligent Information Processing*, 2013. (EI). (Accepted)

22. C.Y. Lo, **C.I. Hou**, P.C. Chen, C.H. Lan, C.H. Kuo, "The Analysis of Seasonal Fish Quantity With Artificial Intelligent Theory," *Advanced Science Letters*, vol.9, no.9, pp. 2585-2590, 2013. (EI).
23. **C.I. Hou**, H.C. Huang, T.S. Lan, "A Remote Monitoring Self-Propelled Trolley Design Using in Hotels," *International Journal of Robots, Education and Art*, vol.3, no.2, pp. 23-31, 2013. (EI).
24. **C.I. Hou**, H.C. Huang, T.S. Lan, "The Development of LOHAS Automated Guiding Vehicle," *TELKOMNIKA*, vol.11, no. 11, 2013. (EI).
25. **C.I. Hou**, H.I. Chang, C.T. Ku, L. Kulikowski, "Using AHP to Compare and Select Leisure Agricultural Area Land Investment Alternatives," *International Journal of Leisure Information Management*, 1 (1), pp. 1-6, 2013.
26. C.T. Lin, **C.I. Hou**, "The Technical Report of Secured Document Transmitting on Cloud Platform through Web2App/PaaS Operation," *International Review on Computers and Software*, 8 (1), 2013. (EI).
27. **C.I. Hou**, "Traffic Flow Forecasting in Leisure Farm Areas Using Artificial Neural Networks," *Przegląd Elektrotechniczny*, 89 (1), pp. 205-207, 2013. (SCI).
28. C.Y. Lo, **C.I. Hou**, H.C. Hsu and C.P. You, "Research of an Online Service System for Beverages Chain Stores," *American Journal of Applied Sciences*, 8 (7), pp. 748-753, 2011. (EI).
29. C.Y. Lo, **C.I. Hou** and Y.Y. Pai, "An Intelligent Demand Forecasting Model With Back Propagation Neural Network for Fish Product", *Research Journal of Applied Sciences, Engineering and Technology*, 3 (5), pp. 447-455, (2011).
30. C.Y. Lo, **C.I. Hou**, H.T. Chang and H.M. Huang, "The three-dimensional virtual scenery system with the consumer intention", *International Journal of Digital Content Technology and its Applications*, Vol. 5 No.9, (2011), pp. 331-343, (EI).
31. C.F. Wu and **C.I. Hou**, "Design of Adaptive Knowledge Learning and Management System for Large Food and Beverage Industry Based on Sharing and Discussion Technique," *Journal of Theoretical and Applied Information Technology*, Vol. 21, pp.98-106, 2010. (NSC 98-2622-E-412-006 -CC3)
32. C.F. Wu and **C.I. Hou**, "Applying Artificial Neural Networks to the Design of Abnormal Diagnosis for Power Transformers," *International Journal of Reviews in Computing*, Vol. 2, pp.23-29, 2010.
33. Y.T. Chang, **C.I. Hou**, "A Study on Cellular CDMA-Based for New Generation Mobile Radio System", *Journal of Theoretical and Applied Information Technology*, Vol. 12, (2010) No.1, pp. 45-52.
34. C.Y. Lo, **C.I. Hou**, and T.S. Lan, "Neural Forecasting Network for the Market of Pleione Formosana Hayata Orchid", *Advances in Soft Computing*, Vol. 56, (2009), pp.817-827.
35. **C.I. Hou**, "Using Information Technology Managing Flower Market in Taiwan" , *Journal of Global Business Management*, Vol. 4 (2008), No. 2, pp. 222-227.
36. **C.I. Hou**, "Use Information Technology in Business Decision Making" , *GESTS International Transactions on Computer Science and Engineering*, Vol. 49, (2008), No. 1, pp. 29-40.
37. **C.I. Hou**, "The 3D Virtual Reality Learning System for Bonsai Design",

- Journal of Statistics and Management Systems*, Vol. 11, (2008), No. 5, pp. 847-859, (EI).
38. **C.I. Hou**, “Bonsai Style Learning With Computer 3 Dimensional System”, *Journal of Information and Optimization Sciences*, Vol. 29 (2008), No. 5, pp. 881-891, (EI).
 39. **C.I. Hou**, C.Y. Lo and J.H. Leu, “A Study on the Feasibility of Applying the Auction Mechanism of Virtual Organization to the Joint Purchase of Leisure Farms”, *International Journal of Management*, (2008), (Accepted), (ABI).
 40. **C.I. Hou**, C.Y. Lo and J.H. Leu, “A Digital Application of Data Encrypting”, *Journal of Discrete Mathematical Sciences & Cryptography*, Vol. 11 (2008), No. 1, pp. 99-111, (EI).
 41. J.H. Leu, C.Y. Lo, and **C.I. Hou** “The Marketing Research on the Potential Factors for Development of Leisure Industry - The Case Study of Hot spring areas in Nantou County, Taiwan”, *Journal of Statistics & Management Systems*, Vol. 11 (2008), No. 2, pp. 213-227, (EI).
 42. C.Y. Lo, **C.I. Hou** and H.T. Chang, “Using Back Propagation Network Algorithms with Joint Purchase Techniques to Make Profits in a Leisure Farming District”, *Journal of Statistics & Management Systems*, Vol. 10 (2007), No. 6, pp. 851-868, (EI).
 43. T.S. Lan, C.Y. Lo and **C.I. Hou**, “Optimum Production Control and Workforce Scheduling of Machining Project”, *Journal of Applied Sciences.*, Vol. 8, (2008), No. 5, 8(5), pp. 836-841, (EI).
 44. J.H. Leu, C.Y. Lo and **C.I. Hou**, “Interface and Configuration of the Hardware and Software for TT&C Station”, *International Journal of Computer Science and Network Security*, Vol. 7 (2007), No.11, pp.184-187.

International Conference:

45. C.Y. Lo, **C.I. Hou** and R. Ma, “The Establishment of the Evaluation Model for Pupil’s Lunch Suppliers”, 2011 International Conference on Photonics, 3D-Imaging, and Visualization, Proc. of SPIE Vol. 8205, 82053G, Guangzhou, China, October (2011), pp. 82053G-1-82053G-6.
46. **C.I. Hou** and K.K. Lo, “Application of Artificial Neural Network to Predict Canine Distemper Incidence in Recreation Area”, The 2008 International Symposium of Leisure Management and Tourism Development, Miaoli, Taiwan, December (2008).
47. **C.I. Hou**, C.Y. Lo and C.W. Shih, “Using Neural Network Forecasting Taiwan’s Native Orchid Market”, The 2008 Information Management International Conference of Yu-Da College of Business, Miaoli, Taiwan, June (2008), pp. 447-456.
48. **C.I. Hou**, C.Y. Lo and J.W. Liu, “Virtual Reality Development of a Bonsai Style Learning”, The 2008 Information Management International Conference of Yu-Da College of Business, Miaoli, Taiwan, June (2008), pp. 158-164.
49. C.Y. Lo, H.C. Hsu, **C.I. Hou** and Y.S. Liao, “AHP application of the decision-making choice of hotels”, The 2008 Information Management International Conference of Yu-Da College of Business, Miaoli, Taiwan, June (2008), pp. 381-393.
50. S.T. Li, C.Y. Lo and **C.I. Hou**, “Optimization of Cooperative Strategy for Multi-Agent System Using Game Theory”, The 19th Midwest Artificial Intelligence and Cognitive Science Conference, Cincinnati, OH, USA, April

- (2008), pp.158-165.
51. **C.I. Hou**, C.Y. Lo and J.H. Leu, “Use Genetic Algorithm in Production and Inventory Strategy”, IEEE International Conference on Industrial Engineering and Engineering Management, December (2007), pp.963-967, (EI).
 52. C.Y. Lo, J.H. Leu and **C.I. Hou**, “A Study of the EPQ Model Using Fuzzy AHP When Flaw of the Products or Unreliable Machineries Exists”, IEEE International Conference on Industrial Engineering and Engineering Management, Singapore, December (2007), pp.1163-1170, (EI).
 53. T.S. Lan, C.Y. Lo, **C.I. Hou** and C.W. Shih, “Heuristic Optimization of Production Control and Manpower Allocation in a CNC Machining Workstation”, 2008 IEEE International Conference on Distributed Human-Machine Systems (DHMS 2008), Athens, Greece, March, (2008). pp. 549-553, (EI).
 54. C.Y. Lo, **C.I. Hou** and S.T. Li, “Optimization of Cooperative Strategy for Multi-Agent System Using Game Theory”, The 3rd YDU/PUP Arts and Management Forum, Dec.(2007) , pp. 119-130.
 55. C.Y. Lo, **C.I. Hou** and Y.C Lee, “Recommendation System for E-Learning – The Case Study of Organic Planting”, The 3rd YDU/PUP Arts and Management Forum, Dec.(2007) , pp. 203-220.
 56. **C.I. Hou** and R.S. Chen, “Use the Expert System and Combine the Association Rules in the Leisure Agricultural Prospectus Review”, The 3rd YDU/PUP Arts and Management Forum, Dec.(2007) , pp. 245-257.