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## **Education**

- PhD, Department of Computer Science, Polytechnic University, 1995/1
- Master, Department of Computer Science, University of Southern California, 1989/8

# **Area of Specialty**

■ Rough Set, Data Mining, Object Oriented Programming, Web Service, Semantic Web, Distributed Debugging

# **Academic Experience**

■ Associate Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 1994/8 to present

### **Publications**

### **Journal Papers:**

- 1. Pai-Chou Wang and Hsien-Kuang Chiou, Two-Phase β-Certain Reducts Generation, Lecture Note in Artificial Intelligence, Vol. 4481, May 2007, 387-394.
- 2. J. T. Chen, S. R. Tsai, C. M. Lee, Y. C. Tu, H. K. Chiou, "Embedding Lively Multimedia Information in XML Objects for a XML-based Event Brokering System", Journal of Applied Systems Studies, Volumn6, No3, 2005.(SCIE).
- 3. H. Chiou and W. Korfhage, Detecting ENF Event Predicates in Distributed Systems, Journal of Parallel and Distributed Computing 44, 1-13 (1997).
- 4. H. Chiou and W. Korfhage, Enhancing Distributed Predicate Detection Algorithms, IEEE Transactions on Parallel and Distributed Systems, Vol. 7, No. 7, July 1996, 673-676.

# **Conference Papers:**

- 1. Jyi-Ta Chen, Hsien-Kuang Chiou, Yu-Wei Liu, "Analysis for Hadoop Computing Performance Based on Current Status Index of Network and System", The E-learning and Information Technology Symposium 2016(EITS2016), pp.14, Mar 2016.
- 2. Jyi-Ta Chen, Hsien-Kuang Chiou, Jun-Xiang Lai, "A Climate Adaptation

- Countermeasure System Based on Semantic Web Approach", The E-learning and Information Technology Symposium 2015(EITS2015), pp.25, Mar 2015.
- 3. Jyi-Ta Chen, Hsien-Kuang Chiou, Zhong-Wei Pu, "Use Hadoop Cloud Computing Architecture to Improve System Performance for Journal Submission Recommended System", The E-learning and Information Technology Symposium 2014(EITS2014), pp.35, Mar 2014.
- 4. Jyi-Ta Chen, Hsien-Kuang Chiou, Yi-Zhen Lee, "A POS Service Based on Semantic Web -As an Example of a POS Software Company", The E-learning and Information Technology Symposium 2014(EITS2014), pp.18, Mar 2014.
- 5. Jyi-Ta Chen, Hsien-Kuang Chiou, Yu-Ren Chen, "Software Desing and Performance Discussion about Manufacturing Execution System (MES) of Electro-Optical Industry Based on Cloud Computing Technology", The 19th Conference on Information Management & Practice, Dec 2013.
- 6. Jyi-Ta Chen, Hsien-Kuang Chiou, Zhong-Wei Pu, "A Journal Submission Recommendation System Based on Cloud Computing Schemes", 2013 The Industry Management and Information Application Innovation Conference, Nov 2013.
- 7. Jyi-Ta Chen, Hsien-Kuang Chiou, Pei-Mei Chen, "Using Semantic Web and Automated Tagging Approaches to Enhance Performance of Tourism Information Retrieval", The E-learning and Information Technology Symposium 2013(EITS2013), pp.30, Mar 2013.
- 8. Jyi-Ta Chen, Hsien-Kuang Chiou, Jue-Li Lu, "Setting Resource Balance Problems of VM in a Cloud Computing Infrastructure Based on Expert System Approach", The E-learning and Information Technology Symposium 2013(EITS2013), pp.10, Mar 2013.
- 9. Jyi-Ta Chen, Hsien-Kuang Chiou, Pei-Mei Chen, "Through Semantic Analysis Technology and Ontology to Automatically Generate Semantic Tagging and to Enhance Accuracy of the Information Retrieval", Taiwan Academic Network Conference 2012, Oct 2012.
- Jyi-Ta Chen, Hsien-Kuang Chiou, Jue-Li Lu, "To solve the Resource & Load Balance problems of Cloud Computing with Expert System Approaches", Taiwan Academic Network Conference 2012, Oct 2012.
- 11. Jyi-Ta Chen, Hsien-Kuang Chiou, Zhao-Lin Liu, "A Course Design Based on Semnatic Web -As an Example of Computer Science", The E-learning and Information Technology Symposium 2012(EITS2012), pp.1, Mar 2012.
- 12. Jyi-Ta Chen, Hsien-Kuang Chiou, Yong-Liang Zhu, "To Explore the Features of Communication Technologies for Implementation of Web Services", The E-learning and Information Technology Symposium 2012(EITS2012), pp.13, Mar 2012.
- 13. Kan-Chen Xie, Jyi-Ta Chen, Hsien-Kuang Chiou, "A Medical Treatment Recommendation System Base on Semantic and Ontology Approach", 2012

- Information Education and Technological Application Conference, pp.B3-1-pp.B3-7, Mar 2012..
- 14. Jyi-Ta Chen, Hsien-Kuang Chiou, Jhih-Hong Siou, "Build a Private Cloud Model Based on the Approach of Desktop as a Service", The 17th Conference on Information Management and Practice, P.178, Dec 2011.
- 15. Jyi-Ta Chen, Hsien-Kuang Chiou, Jhih-Hong Siou, "A Impact Research of Agile Application Lifecycle Management Solutions for Customer Value And Development Risk", 2010 Joint Conference on Object-Oriented Technology and Applications (OOTA) and Software Engineering (TCSE), P.27, July 2011.
- 16. H. Chiou and Y. Lin, Enhancing Decision Prediction Using Rough Set, The E-Learning and Information Technology Symposium 2010, March 2010.
- 17. H. Chiou and S. Ho, Efficient Method To Remove Superfluous Information In The Investment Climate, 2006 International Conference of Digital Technology and Innovation Management, April, 2006.
- H. Chiou, Auxiliary Mechanism to Enhance Event Predicate Detection in Distributed Systems, The 14th Technological and Vocational Education Conference of R.O.C., May, 1999.
- H. Chiou, Detecting Multiple Matches of Global Event Predicates in Distributed Systems, The 11th Technological and Vocational Education Conference of R.O.C., March, 1996.
- 20. H. Chiou and W. Korfhage, ENF Event Predicate Detection in Distributed Systems, In Proc. ACM Symposium on Principles of Distributed Computing, August, 1994.
- 21. H. Chiou and W. Korfhage, Efficient Global Event Predicate Detection, In Proc. IEEE International Conference on Distributed Computing Systems, June, 1994.
- 22. H. Chiou, Global Event Predicate Detection in Distributed Systems, UniForum Annual Conference, March, 1994.

#### **Books:**

1. UNIX System and C Shell Programming, Sung Gang Publishing Inc., June, 1997

### **Dissertation:**

1. H. Chiou, ENF Event Predicates and Their Detection in Distributed Systems, Ph.D. Dissertation, Polytechnic University, 1995

### **Professional Certifications**

- Microsoft Technology Associate: Windows Operating System Fundamentals, Microsoft, Oct., 2015
- Microsoft Technology Associate: HTML5 Application Development Fundamentals, Microsoft, Oct., 2015

- 3. Microsoft Technology Associate: Database Fundamentals, Microsoft, Apr., 2011
- 4. Microsoft Technology Associate: Networking Fundamentals, Microsoft, Apr., 2011

### **Patents**

- 1. Chiou, Hsien-Kuang; Huang, Pei-Shan; Su, Ya-Lin; Chen, Jyi-Ta; Guo, Gen-Ming, Warning Device for Turning Motorcycle, May, 2016, M521032.
- 2. Chiou, Hsien-Kuang; Guo, Gen-Ming; Chen, Jyi-Ta, Warning Device for Reminding Water Leakage, Feb., 2016, M517761.
- 3. Chiou, Hsien-Kuang; Guo, Gen-Ming, Assisting System for Lottery Online Betting, June, 2015, M502213
- 4. Chiou, Hsien-Kuang; Guo, Gen-Ming, Interactive Electronic Bulletin Board, Apr., 2015, M499629
- 5. Chiou, Hsien-Kuang; Ye, Ting-Yu; Guo, Gen-Ming, Integrating Member Card System Using Mobil Device, Jan., 2015, M494363.
- 6. Chiou, Hsien-Kuang; Guo, Gen-Ming; Chen, Chia-Min; Chen, Chien-You; Sun, Chia-Chun; Chen, Yi- Li, Recommendation System for Submitting Academic Journal, Aug., 2013, M459464.
- 7. Chiou, Hsien-Kuang; Guo, Gen-Ming; Liao, Jian-Lin; Chiu, Mu-Hsiang; Lu, Peng-Yuan, Cloud Digital Sticky Note Editing System, July, 2013, M457245.
- 8. Chiou, Hsien-Kuang; Guo, Gen-Ming, Motorcycle Storage Box with USB Socket, June, 2013, M455894.
- 9. Chiou, Hsien-Kuang; Guo, Gen-Ming; Tseng, Yu-Chung, Electric Massage Device, May, 2013, M453497.
- 10. Chiou, Hsien-Kuang; Guo, Gen-Ming, Host Computer Placement Structure, May, 2013, M453333.
- 11. Chiou, Hsien-Kuang; Zhang, You-Ning; Guo, Gen-Ming, Bluetooth Headset, Apr., 2013, M450164.
- 12. Chiou, Hsien-Kuang; Guo, Gen-Ming, A, B-Type Interchangeable Plug, Apr., 2013, M450115
- 13. Chiou, Hsien-Kuang; Guo, Gen-Ming, Projector Extending Device with Multiple Image Outputs, Apr., 2013, M449992...
- 14. Chiou, Hsien-Kuang; Guo, Gen-Ming, Power Supply Device with Automatic Detection, March, 2013, M448629.
- 15. Chiou, Hsien-Kuang; Tsai, Chun-Hsin; Guo, Gen-Ming; Chen, Hui-Shen, Tableware Clip, Feb., 2013, M447192.
- 16. Chiou, Hsien-Kuang; Wu, Qing-Da; Guo, Gen-Ming, Drinking Container with Heating Function, Feb., 2013, M447188.