Curriculum Vitae

Personal Information

Name	Yi-Hung Wu		
Birthday	1971/08/28	**Sex**	Male
Current career	Postdoctoral Researcher [2001/10-now] Computer & Communication Research Center National Tsing Hua University		
Address	101, Section 2 Kuang Fu Road, Hsinchu, Taiwan 300, R.O.C.		
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Education

[1994-2001] Ph. D. in Computer Science, National Tsing Hua University
[1993-1994] Master student in Computer Science, National Tsing Hua University
[1989-1993] B. D. in Computer Science, National Chao Tung University
[1986-1989] The Affiliated Senior High School of National Taiwan Normal University

Research Interests

[2004-] Continuous Query Processing
[2003-] Mining Data Streams
[2001-] Multimedia Data Mining
[1998-] Data Mining

[1998-2001] Web Mining
[1996-2000] Web Data Management
[1995-1997] Internet Resource Discovery

[1995] Video On Demand
[1994-1995] Parallel Database System

Publications

Refereed Journal Papers

1. <u>Y.H. Wu</u>, C.M. Chiang, and A.L.P. Chen, "A New Approach for Sensitive Rule Hiding Avoiding Side Effects," *Submitted*.
2. D.Y. Chiu, <u>Y.H. Wu</u>, and A.L.P. Chen, "Mining Frequent Sequences by Direct Sequence Comparison: The Dynamic DISC-all Algorithm," *Submitted to IEEE Transactions on Knowledge and Data Engineering*.
3. N.H. Liu, <u>Y.H. Wu</u>, and A.L.P. Chen, 2005, "Efficient K-NN Search in Polyphonic Music Databases Using a Lower Bounding Mechanism," *ACM Multimedia Systems Journal (invited submission)*.
4. <u>Y.H. Wu</u>, M.Y.C. Chang, and A.L.P. Chen, 2005, "Discovering Phenomena - Correlations among Association Rules," *Journal of Internet Technology*, to appear.
5. <u>Y.H. Wu</u> and A.L.P. Chen, March 2002, "Prediction of Web Page Accesses by Proxy Server Log," *World Wide Web: Internet and Web Information Systems*, 5(1): 67-88, Kluwer Academic Publishers.

Invited Articles and Book Chapters

1. <u>Y.H. Wu</u> and A.L.P. Chen, 2005, "Data Analysis," *(Invited) Encyclopedia of Computer Science and Computer Engineering (invited submission)*, John Wiley & Sons.
2. A.L.P. Chen and <u>Y.H. Wu</u>, 1999, "Data Analysis," *Wiley Encyclopedia of Electrical and Electronics Engineering*, pp. 506-514, John Wiley & Sons.

Refereed Conference Papers

1. C.H. Lin, D.Y. Chiu, <u>Y.H. Wu</u>, and A.L.P. Chen, April 2005, "Mining Frequent Itemsets from Data Streams with a Time-sensitive Sliding Window," *Proceedings of SIAM Conference on Data Mining (SDM'05)*, to appear.
2. C.W. Cho, <u>Y.H. Wu</u>, and A.L.P. Chen, April 2005, "Effective Database Transformation and Fast Support Computation for Mining Sequential Patterns Efficiently," *Proceedings of International Conference on Database Systems for Advanced Applications (DASFAA'05)*, to appear.
3. N.H. Liu, <u>Y.H. Wu</u>, and A.L.P. Chen, April 2005, "An Efficient Approach to Extracting Approximate Repeating Patterns in Music Databases," *Proceedings of International Conference on Database Systems for Advanced Applications (DASFAA'05)*, to appear.
4. D.Y. Chiu, <u>Y.H. Wu</u>, and A.L.P. Chen, March 2004, "An Efficient Algorithm for Mining Frequent Sequences by a New Strategy without Support Counting," *Proceedings of IEEE Conference on Data Engineering (ICDE'04)*, pp. 375-386. (EI)
5. C.H. Lee, C.W. Cho, <u>Y.H. Wu</u>, and A.L.P. Chen, March 2004, "A Novel Representation of Sequence Data based on Structural Information for Effective Music Retrieval," *Proceedings of International Conference on Database Systems for Advanced Applications (DASFAA'04), Lecture Notes in Computer Science*, 2973: 393-404. (SCI)
6. C.R. Lin, N.H. Liu, <u>Y.H. Wu</u>, and A.L.P. Chen, March 2004, "Music Classification Using Significant Repeating Patterns," *Proceedings of International Conference on Database Systems for Advanced Applications (DASFAA'04)*,

Lecture Notes in Computer Science, 2973: 506-518. (SCI)

7. N.H. Liu, <u>Y.H. Wu</u>, and A.L.P. Chen, November 2003, "Efficient K-NN Search in Polyphonic Music Databases Using a Lower Bounding Mechanism," *Proceedings of ACM SIGMM Workshop on Multimedia Information Retrieval (MIR'03)*, pp. 163-170.

8. C.W. Cho, <u>Y.H. Wu</u>, J. Liu, and A.L.P. Chen, December 2002, "A Graph-based Approach to Mining Inter-transaction Association Rules," *Proceedings of International Computer Symposium (ICS'02)*.

9. <u>Y.H. Wu</u>, Y.C. Chen, and A.L.P. Chen, April 2001, "Enabling Personalized Recommendation on the Web based on User Interests and Behaviors," *Proceedings of IEEE Workshop on Research Issues in Data Engineering (RIDE'01)*, pp. 17-24. (EI)

10. <u>Y.H. Wu</u> and A.L.P. Chen, April 2000, "Index Structures of User Profiles for Efficient Web Page Filtering Services," *Proceedings of IEEE Conference on Distributed Computing Systems (ICDCS'00)*, pp. 644-651. (EI)

11. <u>Y.H. Wu</u>, Y. H. Chen, and A.L.P. Chen, 1996, "Querying and Browsing the Resources in Internet," *Proceedings of International Computer Symposium (ICS'96)*, *Proceedings of SPIE - The International Society for Optical Engineering*, 2898: 197-208, 1996. (EI)

Domestic Conference Papers

1. D.Y. Chiu, D.Y. Lee, <u>Y.H. Wu</u>, and A.L.P. Chen, November 2004, "A Fast Method to Build the RCE-network Classifier," (一個快速建立RCE網路分類機制的方法) *Proceedings of 9th Conference on Artificial Intelligence and Applications (TAAI'04)*, to appear.

2. W.H. Chen, <u>Y.H. Wu</u>, and A.L.P. Chen, December 1999, "Web-flow Mining Techniques, Applications and System Implementations," (網頁流探勘之技術、應用與系統實作) *Proceedings of National Computer Symposium (NCS'99)*, A: 26-32.

3. <u>Y.H. Wu</u>, Y.H. Chen, and A.L.P. Chen, 1996, "Object-Oriented Resource Query System in Internet," (網際網路上物件導向式資源查詢系統) *Proceedings of 7th Workshop on Object-Oriented Technology and Applications (OOT'96)*.

4. <u>Y.H. Wu</u>, P.S.M. Tsai, and S.C. Lo, etc., 1995, "Performance Analysis for Heterogeneous Distributed Database Systems," (異質性分散式資料庫系統的績效評估研究) *Proceedings of National Computer Symposium (NCS'95)*.

<div align="center">Technical Reports and Others</div>

1. A.L.P. Chen, Y.H. Wu, H.C. Chen, J. Lee, and M.H. Jain, 2004, "Sentence Analysis of Aboriginal Music," (原住民音樂之樂句分析) *Data Archival Technology Forum (DATF'04)*. (Poster paper)
2. Y.H. Wu, May 2001, "The Analysis, Indexing and Retrieval of Web Data," *Ph.D. Dissertation*, Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan.
3. Y.H. Wu, J.P. Chen, and A.L.P. Chen, 2001, "Indexing URL Profiles for Efficient Web Page Filtering Services," MAKE-Lab, NTHU, Hsinchu, Taiwan.
4. Y.H. Wu, Y.W. Wu, and A.L.P. Chen, 2001, "Effective Search on the Web Using Query Refinement," MAKE-Lab, NTHU, Hsinchu, Taiwan.

Projects

[2005-2006] Research of Continuous Query Processing Techniques over Data Streams (1st year) (NSC)

[2004-2006] Technologies and Applications of Overlay Networks (1st~2nd year) (NSC: Program for Promoting Academic Excellence of Universities -- Phase II)

[2002-2005] Research and Applications of Mining Techniques on Multimedia Data (1st~3rd year) (NSC)

[2001-2004] Technologies and Applications for Next-generation Media (2nd~4th year) (MOE Program for Promoting Academic Excellence of Universities)

[2001-2002] Research and Implementation of Personalized Recommendation Services by Data Mining Techniques (ITRI/CCL)

[1999-2000] Research on Information Querying, Browsing, and Filtering Techniques for Electronic Commerce (NSC)

[1998-1999] Data Mining and Applications based on Web-Page Access Logs (NCHC)

[1997-1999] Research on Integration of Internet/WWW and Wireless Communication Architectures (1st~2nd year) (ITRI/CCL)

[1996-1998] Research and Development of Techniques for Data Indexing, Querying, and Browsing (1st~2nd year) (NSC)

[1995-1996] Research on Querying and Guided Browsing of Distributed Resources on the Internet (III)

[1994-1995] Performance Evaluation of Heterogeneous Distributed Multi-database System (III)

Academic Services

<div align="center">Conference Program Committee</div>

[2005] APWeb [*Pacific-Asia Web Conference*]

<div align="center">Journal Paper Reviewer</div>

[2003] VLDBJ [*VLDB Journal*]
[2002] JISE [*Journal of Information Science and Engineering*]
[2001] J-AI [*Journal of Applied Intelligence*]

[2005] DASFAA [*Conference on Database Systems for Advanced Applications*]
  APWeb
[2004] VLDB [*International Conference on Very Large Databases*]
  PAKDD [*Pacific-Asia Conference on Knowledge Discovery and Data Mining*]
[2002] VLDB (2)
  ICDE [*IEEE Conference on Data Engineering*]
  ICDM [*IEEE Conference on Data Mining*]
  WISE [*International Conference on Web Information Systems Engineering*]
  ODBASE
[2001] RIDE [*IEEE Conference on Research Issues in Data Engineering*]
  DAWAK [*Conference on Data Warehousing and Knowledge Discovery*]
[2000] VLDB (2)
  CIKM [*ACM Conference on Information and Knowledge Management*]
  ICME [*IEEE Conference on Multimedia and Expo*]
  WAIM [*International Conference on Web-Age Information Management*]
[1999] ICTAI [*IEEE Conference on Tools with Artificial Intelligence*]
[1998] VLDB (2)
  PAKDD
[1997] VLDB
  DASFAA (3)
[1996] VLDB
  CIKM
[1994] ICPADS [*IEEE Conference on Parallel and Distributed Systems*]

Teaching

[2004-2005]
✧ Database Theories, Department of Information and Computer Education, National Taiwan Normal University (NTNU)
✧ Internet Applications, Hsinchu campus, National Taichung Institute of Technology (NTIT)
✧ Office Software, Hsinchu campus, NTIT
[2003-2004]
✧ Image Processing, Hsinchu campus, NTIT
✧ Webpage Design, Hsinchu campus, NTIT
✧ Internet Applications, Hsinchu campus, NTIT
✧ Data Processing, Hsinchu campus, NTIT
✧ Multimedia Applications, Hsinchu campus, NTIT
✧ Office Software, Hsinchu campus, NTIT
[2002-2003]
✧ Internet Applications, Hsinchu campus, NTIT
✧ Data Processing, Hsinchu campus, NTIT
✧ Multimedia Applications, Hsinchu campus, NTIT
✧ Office Software, Hsinchu campus, NTIT

[2000-2001]
- ✧ Information Systems and Applications, Department of Life Science, National Tsing Hua University (NTHU)

[1999-2000]
- ✧ Data Structure, Department of Economics, NTHU

[1998-1999]
- ✧ Microsoft Access Database Management, Job Training Course, Tze-Chiang Foundation of Science and Technology (TCFST)
- ✧ Information Systems and Applications, Department of Chinese Literature, NTHU
- ✧ Information Systems and Applications, Department of Materials Science and Engineering, NTHU

[1997-1998]
- ✧ Information Systems and Applications, Department of Foreign Language and Literature, NTHU
- ✧ Information Systems and Applications, Department of Economics, NTHU

[1996-1997]
- ✧ Introduction to Computers, Department of Engineering and System Science, NTHU

[1993-1996]
- ✧ Teaching Assistant in Engineering Mathematics, Discrete Mathematics, System Programming, and Introduction to Computers, Department of Computer Science, NTHU