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### Education

- PhD, Department of Computer Science and Information Engineering, National Cheng Kung University, 2012/1
- Master, Department of Computer Engineering, National Chiao Tung University, 1990/7
- BBA, Department of Computer Engineering, National Chao-Tung University, 1988/6

### Area of Specialty

- Data Mining
- Multimedia Data Mining

### Academic Experience

- Instructor, Department of Information Management, Southern Taiwan University of Science and Technology, 1990/8 to 2012/7
- Associate Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2012/8 to present

### Publications

#### **Journal Papers:**

1. Bo-Wen Wang, "An Effective Two-Phase Collaborative Filtering Algorithm for Recommender Systems". Journal of Southern Taiwan University. Volume 38 Number 3, September 2013, pages 53-66
2. Bo-Wen Wang and Vincent S. Tseng. "Improving Missing-Value Estimation in Microarray Data with Collaborative Filtering Based on Rough-Set Theory". in International Journal of Innovative Computing, Information and Control. Volume 8, Number 3(B), March 2012
3. Ja-Hwung Su, Bo-Wen Wang, Chin-Yuan Hsiao and Vincent S. Tseng. "Personalized Rough-Set-based Recommendation by Integrating Multiple Contents and Collaborative Information". Information Sciences Volume 180, Issue 1, 2 January 2010, Pages 113-131.
4. Vincent S. Tseng, Ja-Hwung Su, Bo-Wen Wang, Tien-Yu Hsu, Chien-Li Chou.

“Multi-Modal Image Retrieval by Integrating Web Image Annotation, Concept Matching and Fuzzy Ranking Techniques.” *International Journal of Fuzzy Systems*, Vol. 12, No. 2, June 2010.

### **Conference Papers:**

1. Bo-Wen Wang, Ja-Hwung Su, Chien-Li Chou, Vincent S. Tseng. “Semantic Video Retrieval by Integrating Concept- and Content-Aware Mining.” in *Proceedings of the Technologies and Applications of Artificial Intelligence*, Taiwan, November, 2011.
2. Ja-Hwung Su, Bo-Wen Wang, Hsin-Ho Yeh and Vincent S. Tseng. “Ontology-Based Semantic Web Image Retrieval by Utilizing Textual and Visual Annotations.” in *Proceedings of the Workshop on Computational Intelligence Approach for Ontology-based Knowledge Discovery (CIAO -WI/IAT'2009)*, Milano, Italy, September 2009.
3. Ja-Hwung Su, Bo-Wen Wang and Vincent S. Tseng. “Effective Ranking and Recommendation on Web Page Retrieval by Integrating Association Mining and PageRank.” in *Proceedings of the Workshop on Optimization-based Data Mining and Web Intelligence (ODM-08, held with 2008 IEEE/WIC/ACM Int’l Conf. Web Intelligence and Intelligent Agent Technology)*, Sydney, Australia, December, 2008.
4. Vincent S. Tseng, Ja-Hwung Su, Hao-Hua Ku and Bo-Wen Wang. “Intelligent Concept-Oriented Search for Content-Based Image Retrieval by Using Data Mining and Image Concept Query Decomposition Techniques.” in *Proc. of 2008 IEEE International Conference on Multimedia & Expo*, Hannover, Germany, 2008.
5. Vincent Shin-Mu Tseng, Ja-Hwung Su, Bo-Wen Wang and Chin-Yuan Hsiao. “A Novel Recommendation Method based on Rough Set and Integrated Feature Mining.” in *Proc. of the third International Conference on Innovative Computing, Information and Control*, Dalian, China, 2008.
6. Vincent S. Tseng, Ja-Hwung Su, Bo-Wen Wang, Chin-Yuan Hsiao, Jay Huang and Hsin-Ho Yeh. “Intelligent Multimedia Recommender by Integrating Annotation and Association Mining.” in *proc. of the 2008 IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing*, Taichung, Taiwan, 2008.
7. Vincent S. Tseng, Jia-Hwung Su, Bo-Wen Wang, Yu-Ming Lin, “Web Image Annotation by Fusing Visual Features and Textual Information”, in *ACM Symposium on Applied Computing (SAC)*, Korea, 2007.

### **Dissertation:**

1. Data Pre-Processing and Data Mining Techniques for Video Retrieval and Recommendation

## **Entrusted Practical Projects**

1. Wang, B.W. 2016. A Website Implementation on Shopping on Demand. 331050019
2. Wang, B.W. 2015. An Innovative Website Implementation on a Print Company. 331040206
3. Wang, B.W. 2014. Multimedia Training Class Project. 331030480
4. Wang, B.W. 2014. A Shopping Website Implementation of Tai-Shin Glasses Company. 331030206
5. Wang, B.W. 2013. A Website of Design Communication and Progress Confirmation. 331020389

## **Professional Certifications**

1. Certification of the Microsoft Technology ASSOCIATE(HTML5 Application Development Fundamentals), NO: F424-3501, Microsoft, 2015/10
2. Certification of the Microsoft Technology ASSOCIATE(Windows Operating System Fundamentals), NO: F425-2410, Microsoft, 2015/10
3. Mobile Device Application, No: 132140800012330, Computer Skills Foundation, 2014/08
4. Webpage Program Design Certification, No:232130900000660, Computer Skills Foundation, 2013/09
5. Word 2010 Expert, No: 9241591, Chinese Computer Education Association, 2012/12
6. Excel 2010 Expert, No: 9241657, Chinese Computer Education Association, 2012/12
7. Information Technology Expert(Linux Administration IT Expert), No: 311121100000020, Computer Skills Foundation, 2012/11
8. TQC-IP Image Process-Photoshop CS4 Image Processing(Primary), Computer Skills Foundation, 2012/8
9. TQC Dreamweaver CS4 Web Design Advanced, Computer Skills Foundation, 2012/8
10. Certification of the MOS(Master), Microsoft, 2009/11
11. Certification of the MOS(Access 2003), Microsoft, 2009/11
12. Certification of the MOS(Excel 2003), Microsoft, 2009/11
13. Certification of the MOS(PowerPoint 2003), Microsoft, 2009/11
14. Class B Certification of the computer software applications, No: (B) 117873, Council of Labor Affairs, 1999/5