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**Assistant Professor**  
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### **Academic Background**

Ph.D. Department of Biomedical Electronic and Bioinformatics, National Taiwan University, Taipei, Taiwan, 2013.  
B.S. Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University, Taipei, Taiwan, 2008.

### **Professional Certifications**

Medical Laboratory Scientist certificate, 2008, Taiwan.

### **Qualification**

Academically Qualified

### **Professional Memberships**

Taiwan Association of Medical Informatics, 2016-present  
Institute of Information & Computing Machinery, Taiwan, 2006-present

### **Teaching**

### **Intellectual Contributions**

#### **Intellectual Contributions Grid**

Category	DBS	CTP	LPS	Total
Articles in Refereed Journals	9			9
Publications in Refereed Conference Proceedings	12			12
Publications of Non-refereed or Invited Papers	2			2

### **College Approved Articles**

#### **Discipline-Based Scholarship**

Ping, X., Tseng, Y., & Lin, Y. (2015). A Multiple Measurements Case-based Reasoning Method for Predicting Recurrent Status of Liver Cancer Patients. *Computers in Industry*.

Tseng, Y., Cami, A., & Goldmann, D. A. (2015). Incidence and Patterns of Extended-Course Antibiotic Therapy in Patients Evaluated for Lyme Disease. *Clinical Infectious Diseases*.

Tseng, Y., Ping, X., & Liang, J. (2015). Multiple Time Series Clinical Data Processing for Classification with Merging Algorithm and Statistical Measures. *IEEE Journal of Biomedical and Health Informatics*.

Tseng, Y., Cami, A., & Goldmann, D. A. (2015). Using Nation-Wide Health Insurance Claims Data to Augment Lyme Disease Surveillance. *Vector-Borne and Zoonotic Diseases*.

- Liang, L., Ping, X., & Tseng, Y. (2014). Recurrence Predictive Models for Patients with Hepatocellular Carcinoma after Radiofrequency Ablation Using Support Vector Machines with Feature Selection Methods. *Computer Methods and Programs in Biomedicine*.
- Chen, W., Hsieh, S., & Hsu, K. (2013). Web-Based Newborn Screening System for Metabolic Diseases: Machine Learning Versus Clinicians. *Journal of Medical Internet Research*, e98.
- Wu, Z., Tseng, Y., & Chung, Y. (2012). A Reliable User Authentication and Key Agreement Scheme for Web-Based Hospital-Acquired Infection Surveillance Information. *Journal of Medical Systems*, 36 (4), 2547-55.
- Tseng, Y., Wu, J., & Ping, X. (2012). A Web-Based Multidrug-Resistant Organisms Surveillance and Outbreak Detection System with Rule-Based Classification and Clustering. *Journal of Medical Internet Research*.
- Ping, X., Tseng, Y., & Chung, Y. (2012). Information Extraction for Tracking Liver Cancer Patients' Statuses: from Mixture of Clinical Narrative Report Types. *Telemedicine and e-Health*.

## Refereed Proceedings

### Discipline-Based Scholarship

- Tseng, Y., & Mandl, K. D. (in press, 2016). Diagnostic Journeys of Patients Evaluated for Lyme Disease and Given Extended Antibiotic Therapy. *Association of American Physicians, American Society for Clinical Investigation, and American Physician Scientists Association Joint Meeting*
- Ping, X., Tseng, Y., & Liang, J. (2015). Missing Value Imputation on Multiple Measurements for Prediction of Liver Cancer Recurrence: A Comparative Study. *International Computer Symposium 2014 Workshop on Healthcare and Bioinformatics*.
- Tseng, Y., Ichise, R., & Huang, B. (2015). Validation and Comparison of A Candidemia Prediction Models: a case-control study. *The 7th International Congress of Asia Pacific Society of Infection Control*.
- Tseng, Y., Huang, B., & Lin, H. (2015). Development and Evaluation of A Hospital-wide Healthcare-associated Surgical Site Infection Detection Algorithm. *The 7th International Congress of Asia Pacific Society of Infection Control*.
- Ping, X., Lai, F., & Tseng, Y. (2014). Evaluation of Imputation Methods for Missing Data and Their Effect on the Reliability of Predictive Models. *The Sixth International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies (BIOTECHNO 2014)*
- Huang, B., Tseng, Y., & Ho, T. (2014). A Healthcare-associated Surgical Site Infection Surveillance and Decision Support System. *The 2014 Biomedical Engineering International Conference (BMEiCON 2014)*.
- Tseng, Y., Wu, J., & Lin, H. (2013). Rule-based Healthcare-associated Bloodstream Infection Classification and Surveillance System. *European Federation of Medical Informatics Special Topic Conference (EFMI STC)*.
- Hsu, C., Ping, X., Liang, J., & Tseng, Y. (2012). A CBR-Based Method for Retrieving Similar Patients from Case Base. *The Second AMA-IEEE Medical Technology Conference on Healthcare*.
- Chen, W., Chen, H., & Tseng, Y. (2012). Newborn Screening for Phenylketonuria: Machine Learning vs Clinicians. *The 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*.
- Tseng, Y., Lai, F., & Lin, P. (2012). Telecare with Integrated Health Portal and Smart Phones. *Medicine 2.0'12*.
- Tseng, Y., Lee, Y. S., & Ping, X. (2011). Describing Electronic Medical Record by Semantic Web Technology. *The Second AMA-IEEE Medical Technology Conference on Healthcare*.
- Tseng, Y., Chen, Y., & Lin, H. (2010). A web-based hospital-acquired infection surveillance information system. *The 10th IEEE International Conference on Information Technology and Applications in Biomedicine (ITAB)*.

## Non-College Approved Articles

### Discipline-Based Scholarship

- Ping, X., Chung, Y., & Tseng, Y. (2013). A Web-Based Data Querying Tool Based on Ontology-Driven Methodology and Flowchart-Based Model. *JMIR Medical Informatics*.

## Service

### Honors/Awards

#### Award

- 2013: Smart Hospital Award, The Joint Commission of Taiwan. To Multidrug-Resistant Organisms Surveillance and Outbreak Detection System at National Taiwan University Hospital.

2012: Graduate Student Research Excellence Award, Graduate Institute Biomedical Electronic and Bioinformatics, National Taiwan University.

2012: IICM S.M. Cho IT Student Leader Award, Institute of Information & Computing Machinery, Taiwan.

**Scholarship**

2014: Postdoctoral Research Abroad Program Fellowship, Nation Science Council, Taiwan.