CURRICULUM VITAE

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EDUCATION
Ph.D. Industrial Engineering and Management, Yuan Ze University, Taiwan, Aug 2001- Sep 2006.
M.S. Information Management, Ming Chuan University, Taiwan, Aug 1998- Jan 2001.

EXPERIENCE
Chair. School of Medical Informatics, Chung-Shan Medical University, Aug 2018-
Assoc. Prof, School of Medical Informatics, Chung Shan Medical University, Aug 2014-
Cancer Center, Chung Shan Medical University Hospital, Aug 2016-
Medical Information Center, Chung Shan Medical University Hospital, Aug 2010-
Biomedical Industry Research Center, Chung Shan Medical University Hospital, Aug 2010-
Assist. Prof, Dep. of Info. Management, Chung Shan Medical University, Sep 2006 - Aug 2009.
C.E.O., Phoenicia Co., August, 2000- August 2003.
Information Management Analyst, Deloitte Co., August 1998- August 2000.

Research Interests
Decision Analysis & Simulation Modeling, Multiple Primary Malignant Neoplasms (MPMNs),
Recurrent Gynecologic Cancer, Shared Medical Decision Making, Performance Measurements in
Health Services, Health Service Innovation & Management, Ethical Aspects in Health Care

Guest Editors
International Journal of Environmental Research and Public Health (SCI, IF 2.468)
International Journal of Medical Sciences (SCI, IF 2.333)
Journal of Universal Computer Science (SCI, IF 1.065)
Open Medicine (SCI, IF 1.221)
Therapeutics and Clinical Risk Management (SCI, IF 1.824)
Journal of Quality (EI/Scopus)
Journal of Computing Science and Engineering (EI/ Scopus)
International Journal of Computers and Applications (EI/ Scopus)
Chung Shan Medical Journal (TSCI)
International Journal of Revenue Management (EconLit/ Scopus)
International Journal of Business and Systems Research (EI/ Scopus)
International Journal of Management, Economics and Social Sciences (EI/ Scopus)
ACM (EI/ Scopus)

Editorial Board
Annual of Proteomics and Bioinformatics, Journal of Obstetrics & Gynecology Research, International
Journal of Gynecology & Obstetrics, Annals of Infertility and Reproductive Endocrinology, American
Journal of Biometrics & Biostatistics (AJBB), Chronicles of Oncology, International Journal of
Business and Systems Research, Journal of Oncology Research Forecast, Bioequivalence &
Bioavailability International Journal, Clinics in Medicine, Obstetrics and Gynecology

Founding International Conferences
International conference on Medical and Health Informatics (ICMHI) in 2017
International conference on Healthcare Service Management (ICHSM) in 2018

REFEREED JOURNALS PAPERS

- <u>Chi-Chang Chang</u>* and Ssu-Han Chen (2019). Developing a Novel Machine Learning-based Classification Scheme for Predicting SPCs in Women with Breast Cancer, accepted, *Frontiers in Genetics*, 2019, 10:848. doi: 10.3389/fgene.2019.00848. (SCI)

- Jone-Han Liu, <u>Chi-Chang Chang</u>, Chi-Wei Chen, Li-Ting Wong, Yen-Wei Chu* (2019). Conservation region finding for influenza a viruse by machine learning methods of N-linked glycosylation sites and B-cell epitopes, *Mathematical Biosciences Volume* 315, September 2019, 108217 (SCI).

- Lei Xu, Changrui Liao, Gin-Den Chen and <u>Chi-Chang Chang</u>* (2019). k-skip-n-gram-RF: A Random Forest based Method for Alzheimer's Disease Protein Identification, *Frontiers in Genetics*, 2019, doi: 10.3389/fgene.2019.00033 (SCI).

- Jehn-Hwa Kuo, <u>Chi-Chang Chang</u>*, Chi-Wei Chen, Heng-Hao Liang, Chih-Yen Chang, Yen-Wei Chu* (2019). Sequence-Based Structural B-cell Epitope Prediction by Using Two Layer SVM Model and Association Rule Features. *Current Bioinformatics,* 14, 1-7. (SCI).

- Yu-Ting Chen, <u>Chi-Chang Chang</u>, Chi-Wei Chen, Kuan-Chun Chen, Yen-Wei Chu (2019). MADS-Box Gene Classification in Angiosperms by Clustering and Machine Learning Approaches. Frontiers in Genetics, 2019(9), Article 707 (SCI).

- Lei Xu, Guangmin Liang, Changrui Liao, Gin-Den Chen and <u>Chi-Chang Chang</u>* (2018) An Efficient Classifier for Alzheimer's Disease Genes Identification, *Molecules* 2018, 23(12), 3140; doi: 10.3390/molecules23123140. (SCI)

- <u>Chi-Chang Chang</u>, Chi-Hua Tung, Chi-Wei Chen, Chin-HauTu, Yen-WeiChu* (2018) SUMOgo: Prediction of sumoylation sites on lysines by motif screening models and the effects of various post-translational modifications, *Scientific Reports*, S8:15512. (SCI)

- <u>Chi-Chang Chang</u>, Chi-Jie Lu, Chalong Cheewakriangkrai, Su-Hsin Chang (2018) Preface for the Special Issue on Computational Intelligence Technologies Meet Medical Informatics -From Prediction to Prognosis, *Journal of Universal Computer Science*, vol. 24, no. 6, pp. 662-664. (SCI)

- Chien-Sheng Cheng, Pei-Wei Shueng, <u>Chi-Chang Chang</u>*, Chi-Wen Kuo (2018) Adapting an Evidence-based Diagnostic Model for Predicting Recurrence Risk Factors of Oral Cancer, *Journal of Universal Computer Science*, vol. 24, no. 6, pp. 742-752. (SCI)

- Chi-Chou Huang, <u>Chi-Chang Chang</u>, Chi-Wei Chen, Shao-yu Ho, Hsung-Pin Chang, Yen-Wei Chu* (2018). PClass: Protein Quaternary Structure Classification by Using Bootstrapping Strategy as Model Selection, *Genes*, Vol. 9, No. 2, pii: E91. doi: 10.3390/genes9020091 (SCI)

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- Wen-Chien Ting, Yen-Chiao (Angel) Lu, Chi-Jie Lu, Chalong Cheewakriangkrai, <u>Chi-Chang Chang</u> * (2018). Recurrence Impact of Primary Site and Pathologic Stage in Patients Diagnosed with Colorectal Cancer. *Journal of Quality,* Vol. 25, No. 3, pp. 166-184. (EI).

- Chi-Wei Chen, <u>Chi-Chang Chang</u>, Hui-Chih Hung, Shao-yu Ho, Hsung-Pin Chang and Yen-Wei Chu* (2018). Constructing Feature Models for Citrullination Sites Prediction. *Journal of Quality*, Vol. 25, No. 3, pp. 185-195. (EI).

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• Sun-Long Cheng, Chung-Chu Pan, <u>Chang Chi-Chang</u>* (2013) Factors affecting decisional conflict for patient with oral cancer, Advances in Information, *Advances in Information Sciences and Service Sciences*, Vol. 5, No. 5, pp. 914-920, March 2013. (EI)

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• <u>Chi-Chang Chang</u>, Kuo-Hsiung Liao (2013) Bayesian Sample-size Determination for Medical Decision Making, *International Journal of Advancements in Computing Technology*, Vol. 5, No. 8, pp. 1190-1197, 2013. (EI)

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- <u>Chi-Chang Chang</u>*, Chen, Y-F. (2007) "Designing A CRM-based E-Government Usability Evaluation Framework: Integrating Internal and External Customers in Public Services", *Social Implications and Challenges of E-Business*, ISBN: 159-904-105-7, Idea Group, 2007.
- <u>Chi-Chang Chang</u>*, Chen, R-S. P Sun, P-R. (2010) "Applying Fuzzy Bayesian Maximum Entropy to Extrapolating Deterioration in Repairable Systems", *Machine Learning*, Yagang Zhang (Ed.), ISBN: 978-953-307-033-9, INTECH, 2010.

CONFERENCE PAPERS
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- <u>Chi-Chang Chang</u> Ensemble Feature Learning for Predicting Risk Factors of Secondary Cancer, *The Fifth International Conference on Machine Learning, Optimization, and Data Science*, Certosa di Pontignano, Siena-Tuscany, Italy, September 10-13, 2019
- <u>Chi-Chang Chang</u>, Diao Ma, Yen-Chiao Lu, Chalong Cheewakriangkrai, eHealth Literacy Plays Critical Role of Shared Decision Making: A Cross-Sectional Study, *19th WPA World Congress of Psychiatry*, Lisbon, Portugal, August 21-24, 2019.
- <u>Chi-Chang Chang</u>, Ensemble Feature Learning for Predicting Risk Factors of Recurrent Cancers, *The 3rd Int'l Conference on Operations Research and Fuzziology (ORF 2019)*, Guilin, China, July 19-21, 2019
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- Yen-Chiao Lu, Chi-Jie Lu, <u>Chang Chi-Chang</u>* (2017, Nov). A hybrid of data mining and ensemble learning forecasting for recurrent ovarian cancer. *International Conference on Intelligent Informatics and BioMedical Sciences* 2017, Okinawa, Japan.
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- Hsien-Hua LIAO, Sun-Long CHENG, Pei-Wei SHUENG, Hsi-Chieh LEE, Chalong CHEEWAKRIANGKRAI and <u>Chang Chi-Chang</u> (2017, Jul). Decisional Conflict in Work-related Hand Trauma Patients. *15th International Conference on Informatics, Management and Technology in Healthcare*, ATHENS.
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- Chang Chi-Chang (2016, Dec). *Application of Machine Learning to Predict the Colorectal Cancer Recurrence. 2nd International Conference on Health, Medicine and Life Sciences (MEDLIFE2016)*, Shanghai.
- Chang Chi-Chang (2016, Dec). Repairable System Reliability Modeling and Decision Analyses. *2nd Annual 2016 International Conference on Management Science and Engineering (MSE2016)*, Chengdu.
- Chang Chi-Chang Shared Decision Making and Regret Plays Critical Roles of Posttraumatic Growth: a Longitudinal Study. *The 35th Society for Medical Decision Making*, St. Louis, 17-21 Oct. 2015.
- Pei-Shan Su, Ting Teng, Che-Hsin Hsu, Chi-Chang Chang*. Patients' Trust for Involvement in Shared Decision Making: A Longitudinal Study. *The 34th Society for Medical Decision Making,* Miami, 19-22 Oct. 2014.
- Chang Chi-Chang, "Factors affecting decisional conflict for patients with cervical cancer in Taiwan: an observational study", *The 5th World Congress on Women's Mental Health*, Lima, Peru 4-7 March 2013. (NSC101-2410-H-040-009-)
- Chang Chi-Chang, "Developing a Longitudinal model for Quality of life measurement in Women with Cervical Cancer– A Structural Equation Modeling Framework", *The Third Asian Conference on Psychology & the Behavioral Sciences,* Osaka, Japan, March 28-31 2013.
- Chang Chi-Chang, "The Effect on Life Quality of Oral Cancer Patients after the Orthopedic Surgery", *21st European Congress of Psychiatry*, Nice, French, 6-9 April, 2013.
- Chang Chi-Chang "Analysis of prognostic factors in patients relapsed ovarian cancer", *2013 INFORMS Annual meeting, Minneapolis*, USA, 6-9 Oct. 2013. (NSC102-2914-I-040-002-A1)
- Chi-Chang Chang*, Ting Teng "Predicting the Recurrent Factors of Cervical Cancer using C5, MARS and RF: a comparison study", *The 18th International Meeting of the European Society of Gynaecological Oncology*, Liverpool UK, 19-22 Oct. 2013. (NSC 102-2633-E- 040-001-)
- Chang Chi-Chang "Recurrent Breast Cancer with Proportional Homogeneous Poisson Process", 5th Kuala Lumpur International Conference on Biomedical Engineering 2011 (2011), *BIOMED proceeding vol. 35, pp. 450-457, (BIOMED 2011)* 20-23 June 2011, Kuala Lumpur, Malaysia ISBN: 978-3-642-21728-9 (Print) 978-3-642-21729-6.
- Chang Chi-Chang, "Using Regression Analyses to Determine Predictors of Life Quality Among Oral Cancer Patients with Orthopedic Trauma", *7th Annual Chicago Supportive Oncology Conference,* Chicago, Illinois, US, 28-29th October, 2011.
- Chi-Chang Chang, Li, Y-H. Liao, K-H. "An Exploration of Risk Factors Selecting for Hospital Information Security through NGT Method" , *4th International Conference on Conference on Management and Service Science* (MASS 2010) , Wuhan, China, August 23- 26, 2010.
- Chi-Chang Chang "Objective Bayesian Reference Analysis with the Poisson Process Model for Recurrent Cervical Carcinoma", *2010 International Conference on Business and Management (2010 ICBM) ,* Taipei, Taiwan, June 4, 2010.
- Chi-Chang Chang, Li, Y-H. Chen, Y-F. Liao, K-H. "Knowledge Base Methods of   Obtaining

Preference of Dental Patients" , *3rd World Summit in the KNOWLEDGE SOCIETY* (WSKS 2010) , Corfu, Greece, 22-24 September, 2010.

- <u>Chi-Chang Chang</u> "Developing the First Validation of the Shared Decision-making Questionnaire in Taiwan", *The 32st Annual Meeting of the Society for Medical Decision Making* (SMDM), Toronto, Canada, October 24 - 27, 2010. (NSC 98-2410-H-040- 006-MY2) (Online SCI / Medical Decision Making)
- <u>Chi-Chang Chang</u>, Sun, P-R. Cheng, S-L. "A Revised Riskit Measurement Approach to Hospital Information Security on Risk and Ambiguity Attitudes", *The 2009 International Conference in Management Sciences and Decision Making* (2009 ICMSDM), Taipei, Taiwan, 30 May, 2009.
- <u>Chi-Chang Chang</u>, Chen,Y-F. Liao, K-H. "A Triple-Diamond Framework for the Assessment of eGovernment in Delivery Services Quality" *2009 International Conference on New Trends in Information and Service Science* (NISS 2009), Beijing, China, June 30- July 2, 2009.
- <u>Chi-Chang Chang</u>, Wang, I-L. Yeh, G-L. Lee, C-H. "Patients' preferences for involvement in shared decision making: a pilot study in Taiwan" *2009 Taiwan Joint Conference in Health care*, Taipei, Taiwan, July 11, 2009.
- <u>Chi-Chang Chang</u> "Bayesian Inference of a Nonhomogeneous Poisson Process with Exponential Model for Recurrent Events", *15th Americas Conference on Information Systems* (AMCIS 2009), San Francisco, California, August 6-9, 2009.
- <u>Chi-Chang Chang</u>, Sun, P-R. Cheng, S-L. Chen, R-S. Liao, K-H. "Developing a Risk Analysis Framework for Hospital Information Security Management", *NCM2009: 5th International Joint Conference on INC, IMS and IDC*, Seoul, Korea, August 25-27, 2009.
- <u>Chi-Chang Chang</u>, Cheng, C-S. Sun, P-R. "Bayesian Inference of Time-Dependent Behavior with Nonhomogeneous Poisson Process", *NCM2009: 5th International Joint Conference on INC, IMS and IDC*, Seoul, Korea, August 25-27, 2009.
- <u>Chi-Chang Chang</u>, Chen, R-S. Liao, K-H. Sun, P-R. "Estimation of Depression Risky of Family Health Tree System- Using the Family Functioning Scale", *2009 International Conference on Engineering Management and Service Sciences* (MASS 2009), Beijing, China, September 20-22, 2009.
- <u>Chi-Chang Chang</u>, Sun, P-R. Cheng, S-L. Chen, R-S. "Stakeholders' Perceptions on Hospital Information Security Risk Analysis in Taiwan", *2009 International Conference on Engineering Management and Service Sciences* (MASS 2009), Beijing, China, September 20- 22, 2009.
- <u>Chi-Chang Chang</u>, "Measuring Taiwanese Patients' Readiness for Involvement in Medical Decision-making", *The 31st Annual Meeting of the Society for Medical Decision Making* (SMDM), Los Angeles, California, USA, October 18 - 21, 2009. (NSC 98-2410-H-040- 006- MY2) (Online SCI / Medical Decision Making)
- Cheng, Y-L. Li, Y-H. <u>Chi-Chang Chang</u>, Lee, C-H. "A Case Study for Exploring Dental Patients' Preferred Roles in Taiwan", *The Ninth International Conference on Electronic Business* (ICEB 2009) November 30 - December 4, Wynn Macau.
- <u>Chi-Chang Chang</u>, Chang, Y-C. "An Entropy-Based Defuzzification Method with Expertsˇ Epistemic uncertainty for Medical Decision Making", *International Symposium on Health Care Quality and Management*, Taichung Taiwan, May 24, 2008.
- <u>Chi-Chang Chang</u>, Lai, C-H. "The Use of EVPI and Decision Sensitivity for Medical Decision Analysis", *International Symposium on Health Care Quality and Management*, Taichung Taiwan, May 24, 2008.
- Chen, Y-F. <u>Chi-Chang Chang</u>, Liu, P-Y. "A Study of the Relationship between Trust and Online Purchasing Behavioral Intentions Based on the Technology Acceptance Model", *International Trade, Economy and Business Management Forum*, June 6, Taipei, Taiwan, May 24, 2008.
- Chen, Y-F. <u>Chi-Chang Chang</u>, Huang, H-Y. "The Effects of the Blog Communication on Online Purchasing Behavioral Intentions of Customer", *International Trade, Economy and Business Management Forum*, June 6, Taipei, Taiwan, May 24, 2008.
- <u>Chi-Chang Chang</u> "Use of Best Practices for a Web-Based Family Health Tree", *2008 IEEE International Conference on Service Operations and Logistics, and Informatics*, Beijing, China, 12-15 October, 2008.
- Wu, F. Sun, P-R. <u>Chi-Chang Chang</u> "Apply Service-Oriented Architecture for Medical Information System in Taiwan", *2008 Joint Conference on Medical Informatics in Taiwan*, Taipei, November 22,

2008.

- <u>Chi-Chang Chang</u> "Entropy-Based Defuzzification Method with Experts' Epistemic Uncertainty for Deteriorating Repairable Systems", *The Seventh International Conference on Machine Learning and Applications (ICMLA'08),* San Diego, California, USA, 11-13 Dec, 2008. [EI]
- <u>Chi-Chang Chang</u>, Cheng, C-S. "Bayes Inference for a Nonhomogeneous Poisson Process with Power Law Model", *2006 Annual Meeting of Chinese Institute of Decision Sciences*, Hsinchu, Taiwan, June 24, 2006.
- <u>Chi-Chang Chang</u> "A Study of Decision Making in Health Care Research", *International Conference on Healthcare Innovation and Management*, Taipei, Taiwan, April 15, 2007.
- <u>Chi-Chang Chang</u> "Developing a Riskit Measurement Method for Hospital Information Security Risk", *International Conference on Healthcare Innovation and Management*, Taipei, Taiwan, April 15, 2007.
- Chen, Y-F. <u>Chi-Chang Chang</u>, Lin, Y-R. Chuang, S-T. "The Effects of Personality and Motivations on Online Consumer Conformity Behavior", *5th Conference on Managing Changes and Innovation*, Taichung, Taiwan, May 15, 2007.
- Chen, Y-F. <u>Chi-Chang Chang</u> "The Effects of Conformity on Online Consumer Choices-A Study of Service Industry", *2007 Conference on Innovation of industry management*, Hsiuping Institute of Technology, Taichung, Taiwan, May 25, 2007.
- Chen, Y-F. <u>Chi-Chang Chang</u> "Forecasting High Technology Product Sales from Purchase Intentions", *2007 Conference on Innovation of industry management*, Hsiuping Institute of Technology, Taichung, Taiwan, May 25, 2007.
- <u>Chi-Chang Chang</u>, Chen, C-W. Wu, K-Y. Lee, R-C. Yune, Y-V. "A Study of FMEA as Solution for Hospital Security Risk Management", *2007 International Conference on Risk and Security Management*, Ministry of Education and Kai-nan University , May 9, 2007.
- <u>Chi-Chang Chang</u>, Chen, C-W. Wu, K-Y. Lee, R-C. Yune, Y-V. "Using AHP and DEA Methods for the Linkage of Customer Satisfaction and Operational Performance on the General Clinics", Asia University, May 12, 2007.
- <u>Chi-Chang Chang</u>, Chen,Y-F. Chen, C-W. Wu, K-Y. Lee, R-C. Yune, Y-V. "Estimation of High Risky Group of Family Health Tree System by Using the Family Functioning and Beck Depression Scales, *2007 Joint Conference on Medical Informatics*, DOH, Taipei, May 19-20, 2007.
- <u>Chi-Chang Chang</u>, Chen, C-W. Wu, K-Y. Lee, R-C. Yune, Y-V. "Developing a Model of Information Security Risk and Measurement for the Hospital- Using the Non-Expected Utility Theory and Riskit Method", *2007 Annual Meeting of Chinese Institute of Decision Sciences*, Taichung, June 9, 2007.
- <u>Chi-Chang Chang</u>, Chen, C-W. Wu, K-Y. Lee, R-C. Yune, Y-V. "A Study of Patient Involvement in the Process of Shared Treatment Decision-Making", *2007 Annual Meeting of Chinese Institute of Decision Sciences*, Taichung, June 9, 2007.
- <u>Chi-Chang Chang</u> "The Bayesian Approach for the Analysis of Recurrent Events with Chronic Granulomatous Disease", International Workshop on Knowledge Discovery and Management in Health Informatics, *The IEEE International conference on Bioinformatics and Biomedicine 2007*, Silicon Valley, USA, November 2-4, 2007, Art. No. 4425414, pp. 159-164. (NSC 96-2914-I-040-012-A1)
- <u>Chi-Chang Chang</u>, Chen, Y-F. "The E-Hospital Access Design Integrating Internal and External Customers' Needs in Information Services", *2006 International Hospital Federation Asian Pacific Regional Conference*, Taipei, Taiwan, April 2-5, 2006.
- <u>Chi-Chang Chang</u>, Chen, Y-F. "Analyze the Chronic Diseases Knowledge Gap in Older Adults - A case study of Hsinchu area", *2006 International Conference on Business and Management*, Taipei, Taiwan, March 23, 2006.
- <u>Chi-Chang Chang</u>, Chen, Y-F. "A Study of the Integrated Architecture of Hospital Information and Risk Management based on the BS7799 Standard", *Conference on Risk Management and Decision*, Taoyuan, Taiwan, May 12, 2006.
- <u>Chi-Chang Chang</u>, Chen, Y-F. "A study of Construction of Healthcare Information Technical License Indicators using Feedback Expert's Questionnaire Investigation Method, *2006 Conference on Innovation of industry management*, Taichung, Taiwan, May 26, 2006.
- <u>Chi-Chang Chang</u>, Chen, Y-F. Liao, K-S. "Estimation of High Risky Group of Family Health Tree System by Using the Family Functioning and Beck Depression Scales", *2006 Conference on*

Information and Practice, Taipei, Taiwan, May 16, 2006.

- <u>Chi-Chang Chang</u>, Luo, C-W. Yie, G-S. Du, J-D. Huang, J-K. "An OOD-based Method for the Family Health Tree Design - analyze the high risk group for chronic diseases", *The 6th Conference Management Theory and Practice of Electronic Business*, Changhua, Taiwan, 2005.
- <u>Chi-Chang Chang</u>, Lee, F-Y. Jeng, K-H. Lin, Y-C. Sheng, P-W. "Developing a CRM-based E-Hospital Evaluate Framework: Integrating Internal and External Customers in Website Design", *The 6th Conference Management Theory and Practice of Electronic Business*, Changhua, Taiwan, 2005.
- <u>Chi-Chang Chang</u> "Analyze the chronic diseases knowledge gap in campus group", *Management Practices Conference on Collaborative Commerce*, Taipei, Taiwan, May 19, 2005.
- <u>Chi-Chang Chang</u>, Chen, Y-F. "The Challenge of Implementing eCRM in Integrated Internal Information Processes Design with Hospital", *Management Practices Conference on Collaborative Commerce*, Taipei, Taiwan, May 19, 2005.
- <u>Chi-Chang Chang</u> "A Web-Based Decision Support System for the Chronic Granulomatous Disease (CGD)", *2005 Conference on Innovation of Industry Management*, Taichung, Taiwan, May 20, 2005.
- <u>Chi-Chang Chang</u> "Developing a CRM-based E-Campus Evaluate Framework: Integrating Internal and External Customers in Website Design", *2005 Conference on Innovation of Industry Management*, Taichung, Taiwan, May 20, 2005.
- <u>Chi-Chang Chang</u>, Cheng, C-S. "Bayesian Value of Information Analysis with Linear, Exponential, Power law Failure Models for Chronic Disease", *2005 Conference on Management Methods and Application*, Tauyuan, Taiwan, July 10, 2005.
- <u>Chi-Chang Chang</u> "Developing an Integrated Strategy for the Curriculum Design with the Viewpoint of the Quality Management", *2005 Conference on Industrial and Business Management and Application*, Tainan, Taiwan, October 7, 2005.
- <u>Chi-Chang Chang</u>, Liao, K-S. Chen, Y-F. "The E-engineered Process of the Conventional Textile Industry: A Case Study for Analyzing the EIP & e-Marketplace system", *2005 Conference on Industrial and Business Management and Application*, Tainan, Taiwan, October 7, 2005.
- Chen, W-J. <u>Chi-Chang Chang</u> "Literatures Review and Exhibit for Classification Filitering Methods and Focus on SVMs", *2005 4rd Conference on Applications for Information and Management*, Hsinchu, Taiwan, November 2, 2005.
- <u>Chi-Chang Chang</u> "Developing an Adaptable eCRM Framework for Enterprise Internal Processes design", *International Conference on Information Management*, Miaoli, Taiwan, June 11, 2004.
- <u>Chi-Chang Chang</u> "A Quality Design of Bayesian Decision Support Systems for the Aging Chronic Diseases", *2004 Conference on Health and Management*, Hsinchu, Taiwan, October 30, 2004.
- <u>Chi-Chang Chang</u>, Lyi, P-F. Shiueng, F-J. Juo, S-I. Chen, F-W. "A Study for Digital Capacity Survey on Campus", *2004 Conference on Digital Learning and Information Management*, Taipei, Taiwan, November 12-13, 2004.
- <u>Chi-Chang Chang</u>, Cheng, C-S. "A Decision Process for Modeling Fuzzy Prior Knowledge in The Aging Chronic Diseases", *2004 The Twelfth National Conference on Fuzzy Theory and its Application*, I-Lan, Taiwan, November 12-13, 2004.
- <u>Chi-Chang Chang</u> "A Web-Based Decision Support Systems for the Chronic Deteriorating Diseases", *The Fourth International Conference on Electronic Business* (ICEB2004), Beijing, China, December 5-9, 2004.
- <u>Chi-Chang Chang</u> "An Adaptive Fuzzy Entropy-Based method for Classificatory filtering in Decision Analysis", *Proceedings of the 2003 Decision Analysis Symposiums*, Taoyuan, Taiwan, January 4, 2003.
- Chen, C-K., Tseng, S-F. <u>Chi-Chang Chang</u>, Huang, H-I. "A Comprehensive Digital Capacity Survey on Taiwanese Governmental Agency", *International Conference on Politics and Information Systems: Technologies and Applications* (PISTA'03), Orlando, Florida, USA. August 1, 2003.
- Chen, C-K. Lin, D-S. <u>Chi-Chang Chang</u> "Developing a risk management system for the implementation of E-Government -A case study of the University-Wide E-document project", *The 4th Conference Management Theory and Practice of Electronic Business*, Changhua, Taiwan, 2002.
- Chen, C.-K., Cheng, H.-P., <u>Chi-Chang Chang</u> "Developing an ISO14000 Environmental Performance Management System by Nominal Group Technique", *The 8th Asia Pacific Quality Organization Conference*, Beijing, P. R. China, September 16-18, 2002.
- <u>Chi-Chang Chang</u>, Chen, C-K. "Developing a CRM-based E-Government Evaluate Framework in The

Changing Environment: Integrating Internal and External Customers in Public Services", *The 4th Asia Pacific Conference on Industrial Engineering and Management Systems*, Taipei, Taiwan, December 18-20, 2002.

• <u>Chi-Chang Chang</u>, Huang, Y-S. "An Approach with Fuzzy Arithmetic for Modeling Experts' Prior Knowledge in Aging Repairable Systems", *Sixth Asia Pacific Decision Sciences Institute Conference* National University of Singapore, July 18-21, 2001.

INVITED TALKS

• 2018 The International Conference on Soft Computing in Data Analytics (CSDA 2018), Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, India, March 10-11, 2018.

• 2017 3nd International Conference on Health, Medicine and Life Sciences (MEDLIFE2016), Hangzhou, China, December 12-14, 2017.

• 2017 World Congress on Biomedical Engineering and Medical Informatics (WCBEMI2017), Hangzhou, China, November 22-23, 2017.

• "Using Cancer Registry Data to Enhance MPMNs Control Programs Development", 2017 9th International Conference on Machine Learning and Computing (ICMLC 2017) Singapore, Feb 24-26, 2017.

• "Repairable System Reliability Modeling and Decision Analyses," 2nd Annual 2016 International Conference on Management Science and Engineering (MSE2016), Chengdu, China, December 16-18, 2016.

• "Application of Machine Learning to Predict the Colorectal Cancer Recurrence", 2016 2nd International Conference on Health, Medicine and Life Sciences (MEDLIFE2016), Shanghai, China, December 13-14, 2016.

• "Rethinking Behavior Change Strategies for Increasing Condom Use among College Students," The International Conference on Environmental Research and Public Health (ICERP2016), Shenzhen China, Oct. 21-23, 2016.

• "Rethinking a In-service Training Program for Nurses' Strategic Hand Hygiene Behavior," 2016 International Conference on Psychology and Behavioural Sciences, Xi'an, China, July 28-29, 2016.

• "Reliability Modeling and Decision Analysis in Repairable Systems," 2016 2nd International Conference on Reliability Engineering (ICRE 2016) Chiang Mai, Chiang Mai University, Thailand, May 14-16, 2016.

• "Application of Machine Learning to Predict the Female Genital Cancers Recurrence," Department of Industrial Engineering and Enterprise Information, Tunghai University, Taichung, Taiwan, Apr 29, 2016.

• "Application of Machine Learning to Predict the Recurrent Cancers,"2016 International Conference on Biology and Pathology (ICBP2016) Guangzhou, Guangdong, China, June 25-26, 2016.

• "Rethinking a In-service Training Programme for Nurses' Strategic Hand Hygiene Behavior in the Presence of Hospital-Acquired Infections," 2nd Annual 2016 International Conference on Modern Education and Social Science (MESS2016) Wuhan China, April 16, 2016.

• "Classification of Recurrent Ovarian Cancer Using Machine Learning Method," 8th International Conference on Machine Learning and Computing (ICMLC 2016) Hong Kong, Feb 22, 2016.

• "Industry Engineering for Efficient, Effective, Equitable Decisions of Health Services Research (HSR) in Taiwan," Department of Industrial Engineering and Enterprise Information, Tunghai University, Taichung, Taiwan, Apr 12, 2015.

• "Interventions for Strategic Healthcare Workers in the Presence of Hospital-Acquired Infections," Yuan Ze University, Taoyuan, Oct. 30, 2014.

• "Analysis of prognostic factors in patients relapsed ovarian cancer" 2013 INFORMS Annual meeting, Minneapolis, USA, 6-9 Oct. 2013.

• "Review of Health Services Research (HSR) in Taiwan," Department of Industrial Engineering and Management, Ming Chi University, Taipei, Taiwan, Jan 22, 2012.

• "Proactive Clinical Risk Management," Department of Surgery, Chung-Shan Medical University Hospital, Jan 14, 2012.

• "A Real Option's Perspective for Technology Management," Show Chwan Memorial Hospital, ChangHaw Jun 8, 2007.

• "Interventions for Strategic Healthcare Workers in the Presence of Hospital-Acquired Infections,"

Biomedical industry Research Center & Medical Information Center, Chung- Shan Medical University Hospital, Jan. 30, 2010.
- "Decision-Making Under Uncertainty: A Real Options Perspective and Applications," Republic of China Air Force, Taoyuan, Taiwan, Dec 22, 2010.
- "Decision Making in Health Care Research" Institute of Hospital and Health Care Administration, National Yang Ming University, March 28, 2009.
- "Risk and Risk Management" Bali Psychiatric Center, Department of Health, Executive Yuan, Taiwan, July 8, 2008.

GRANTs:
- Applying Machine Learning Techniques to Predict the Risk Factor of Dialysis Treatment (CSMU-TSMH-108-02)
- Through investigating comorbid epilepsy and cerebrovascular disease of Alzheimer's disease by animal models and clinical subjects to develop new tools for diagnosis and treatment of dementia (108-2321-B-040-001-MY2) [COPI]
- Assessing the Effects of Glycemic Control Drugs on Multiple Myeloma by Using Photoacoustic Spectrum Detection (108-2221-E-035-034-MY2) [COPI]
- Exploring the Evidence-Based Control Programs for Male with Multiple Primary Malignant Neoplasms (MPMNs) in Taiwan and United States: a Retrospective Multi-institute Analysis II (MOST 108-2221-E-040 -004 -)
- Applying Artificial Intelligence Approaches for Constructing Disease Risk Factor Analysis Model–Case Study for Dialysis Treatment of Diabetic Nephropathy (NCHU- CSMU 1080X)
- Apply Photoacoustic Technology as a Non-Invasive Method to Detect the Degree of Carotid Vascular Sclerosis (MOST108-2221-E-035-034-MY2) [COPI]
- Through investigating comorbid epilepsy and cerebrovascular disease of Alzheimer's disease by animal models and clinical subjects to develop new tools for diagnosis and treatment of dementia (MOST 108-2321-B-040 -001 -MY2) [COPI]
- Assessing the Effects of Glycemic Control Drugs on Multiple Myeloma by Using Photoacoustic Spectrum Detection (FCU-CSMU 10701)
- Risk of second primary malignancies after Local Advanced Rectal Cancer: Applying Data Mining Techniques (CSMU-POHAI-107-01)
- Exploring the Evidence-Based Control Programs for Male with Multiple Primary Malignant Neoplasms (MPMNs) in Taiwan and United States: a Retrospective Multi-institute Analysis I (MOST 107-2221-E-040 -009 –)
- A Word/Phrase Matching-Based Text Mining Program for Automatic Extraction of Hormone Receptor Data from Free-text Pathology Reports on Breast Cancer (NCHU- CSMU 10705)
- Short-term visit grant for international scholar: Chou-Hong Jason Chen (USA) (MOST 107-2912-I-040-501)
- Developing evidence-based control programs for women with multiple primary malignantneoplasms (MPMNs): a multilateral-international cooperation (CSH-2018-D-002)
- The Implementation of Evidence-based CDSS for Gynecologic Cancer in Northern Thailand--Contributions to International Efforts (MOST106-2218-E-040 -001 -MY2)
- Constructing Computational Intelligence and Feature Selection for modeling and predicting of protein function and modification (CSMU-JAH--107-001)
- Prediction of postprandial blood glucose in a cohort study: a comparative study of machine learning techniques (CSMU-LSH-107-2)
- Posttraumatic stress disorder and posttraumatic growth among cancer patients: a prospective cohort study (CSMU-JAH--107-002)
- Risk Factors of Multiple Primary Malignant Neoplasms (MPMNs) in Oral Cancers Survivors (CSH-2018-A-015)
- Applying Data Mining Techniques for Prediction on Recurrent Oral Cancer (CSH-2018-A-008)
- Short-term visit grant for international scholar: Tetsuya Sakurai (Japan) (MOST 106-2912-I-040-502)
- Obesity and age-period-cohort analyses on mortality rate of endometrial cancer in Taiwan and United States (MOST106-2221-E-040 -010 -)

- Analysis of Risk predictive factors in second primary malignancies for colorectal cancer survivors (MOST106-2813-C-040-003-E)
- Data Mining applications in second primary malignances (SPMs) prediction (CSMU-JAH--106-001)
- Machine learning applications in multiple primary malignant neoplasms (MPMNs) prediction (NCHU-CSMU-10612)
- Risk of second primary malignances after colorectal cancer: Applying Data Mining Techniques (CSH-2017-A-012)
- The treatment of Health Technology Assessment in Recurrent Colorectal Cancer (CSH-2017-A-012)
- Combining randomized and non-randomized studies and to construct a novel prognostic index model of recurrent colorectal cancer (CSH-2017-A-012)
- Multiple primary malignant neoplasms: Results from a 5-Year Retrospective Analysis in a Metropolitan Hospital (JAH-105-001)
- Short-term visit grant for international scholar: Prof. Quan Zou (Tianjin University, China) (MOST105-2816-B-040 -001 -)
- Construct a disease prediction model to diagnosis dialysis of diabetic nephropathy and identify risk factors using data mining classification technique (CSMU-JAH--105-016)
- The Maze Runner of HIV/AIDS: it's about you! 2015, Ministry of Science and Technology (MOST104-2633-E-040-001-)
- Combined with data mining technology and integrated architecture to enhance endometrial cancer relapse prediction accuracy, 2015, Ministry of Science and Technology (MOST104-2815- C-040-060-E)
- Exploring Patients' Preference in Medical Decision Making and Quality of Life, 2015, Jen- Ai Hospital (CSMU-JAH-104-001)
- Applying Data Mining Techniques for Prediction on Recurrent Colorectal Cancer, 2015, Chung Shan Medical Hospital (CSH-2015-A-006)
- Evaluation of a Video-based Intervention to Promote Condom Use among College Students in Taiwan, 2015, Chung Shan Medical Hospital (CSH-2015-A-014)
- A Cross-sectional Study of Orthopedic Trauma and Life Quality in Work-Related Hand Injury Patients, 2015, Chung Shan Medical Hospital (CSH-2015-A-017)
- Exploring Plastic Surgery Patients' Preference in Medical Decision Making and Quality of Life, 2015, Chung Shan Medical Hospital (CSH-2015-A-012)
- A Novel Prognostic Index Model and Health Technology Assessment in Endometrial Cancer, 2014, Ministry of Science and Technology (MOST102-2633-E-040-001-)
- Developing an advanced machine learning techniques and combined with ensemble learning, 2014, Ministry of Science and Technology (MOST103-2815-C-040-028-E)
- Bayesian Imperfect Information Analysis for Clinical Recurrent Data, 2014, Jen-Ai Hospital (CSMU-JAH-103-001)
- A systemic view of the comprehensively ovarian cancer prognosis program, 2014, Chung Shan Medical Hospital (CSH-2014-C-018)
- Applying data mining techniques for ovarian cancer prevention, 2014, Chung Shan Medical Hospital (CSH-2014-C-018-001)
- Longitudinal dynamic analyse of PTG and QoL regarding cervical cancer treatment -- A Structural Equation Modeling Study, 2013, Ministry of Science and Technology (MOST101-2410- H-040-009-)
- Short-term visit grant for international scholar: Prof. Chung-Li Tseng (University of New South Wales, Australia) (MOST 102-2912-I-040-503)
- Quality of life after post-traumatic growth for cervical cancer: Cohort study with a 18 months follow-up, 2013, Leed-Hsin Hospital (CSMU-LSH-102-2)
- Application of machine learning to predict the recurrence-proneness for cervical cancer, 2012, Ministry of Science and Technology (MOST102-2815-C-040-005-H)
- Evaluation of the functional result and quality of life after orthopedic surgery, 2011, Jen-Ai Hospital (CSMU-JAH-101-001)
- A critical stakeholder analysis for patient shared decision-making under risk 2010, Ministry of Science and Technology (MOST99-2410-H-040-006-MY2)
- Bayesian Inference for Cervical Carcinoma Cancer in Survival Analysis, 2010, Ministry of Science and Technology (MOST99-2628-E-040-001-)

- Collaborative strategy development: wholesale of textile product and channel of innovation, 2010, Ministry of Economic Affairs (PC099140545)
- Exploring Dental Patients' Preference in Medical Decision Making: Comparing Case Study between Taiwan and England, 2010, Antai Hospital (CSMU-TSMH-099-)
- A critical stakeholder analysis for patient shared decision-making under risk 2009, Ministry of Science and Technology, (MOST98-2410-H-040-006-MY2)
- Patient's preferences for involvement in shared decision making, 2009, Ministry of Science and Technology (MOST98-2815-C-040-006-E)

The International Research Team

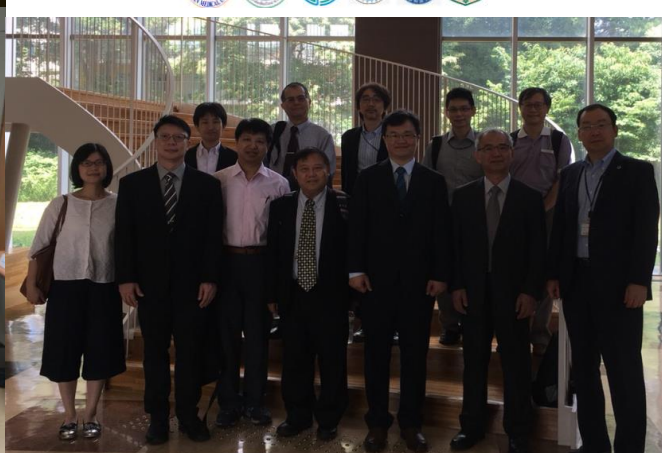## Fostering Health Big Data, Analytics & Artificial Intelligence (HBAAI) Connectivity with Taiwan and Japan

Schedule

14:20-14:40	Natural Computing & Bioinformatics Lab. (Prof. Chu)
14:40-15:00	Efficient biometric authenticated key agreements based on extended chaotic maps for telecare medicine information systems (Prof. Lee)
15:00-15:20	Unsupervised Feature Selection for Microarray Gene Expression Data Based on Discriminative Structure Learning (Prof. Ye)
15:20-15:40	Integration of data mining classification techniques and ensemble learning to identify risk factors and diagnosis ovarian cancer recurrence (Prof. Lu)

正心樓0721教室

2017/12/28 星期四 14:00~16:00

指導與補助單位/ 科技部

主辦單位/ 中山醫學大學

協辦單位/ 筑波大學 元智大學 中興大學 慈濟大學 健行科技大學

MOST 科技部
Ministry of Science and Technology

Fostering Health Big Data, Analytics & Artificial Intelligence (HBAAI) Connectivity with Taiwan and Thailand

Schedule

14:30-14:50	Predicting second primary cancer and identifying risk factors for breast cancer patients Prof. Ssu-Han Chen, Ming Chi University of Technology, Taiwan
14:50-15:10	BreastExtractor: A Word/Phrase Matching-Based Text Mining Program for Automatic Extraction of Hormone Receptor Data from Free-text Pathology Report in Breast Cancer Prof. Yen-Wei Chu & Dr. Kai-Po Chang, National Chung Hsin University, Taiwan
15:10-15:30	How to integrate the ICT with Healthcare Administration in research? Prof. Hao-Yun Kao, Kaohsiung Medical University, Taiwan
15:30-15:40	Tea Break
15:40-16:00	Integrative medicine and Complementary therapies in lung cancer Dr. Tse-Hung Huang, Chang Gung Memorial Hospital, Taiwan
16:00-16:20	Clinical aspects of recurrence analysis in endometrial cancer Dr. Chalong Cheewakriangkrai, Chiang Mai University, Thailand

2018/6/6 星期三 14:30~16:20　正心樓 0727教室

指導與補助單位: 科技部

主辦單位: 中山醫學大學 醫療決策科學實驗室

協辦單位: 泰國清邁大學 元智大學 中興大學 高雄醫學大學 長庚紀念醫院 健行科技大學 明志科技大學 Gonzaga University

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2018 THE 2ND INTERNATIONAL CONFERENCE ON MEDICAL AND HEALTH INFORMATICS
2018 THE 1ST INTERNATIONAL CONFERENCE ON HEALTHCARE SERVICE MANAGEMENT

June 8-10, 2018　　University of Tsukuba, Tsukuba, Japan

ICMHI 2019
2019 3rd International Conference on Medical and Health Informatics

2019 2nd International Conference on Healthcare Service Management
ICHSM 2019

Conference Committees

Master Competition Session
Best paper~X0028 Zhizhen Yao

Mining User-Generated Content to Identify Social
Support in Chinese Online Smoking Cessation
Community
Yuxing Qian, Bingjia Li, **Zhizhen Yao**, Huakui Lv,
Mengnan Che, Zhuo Cheng
Wuhan University, China

Master Competition Session
Best paper~X1010 Peng Nan

Evaluation of Upper Limb Joint's Range of Motion Data
by Kinect Sensor for Rehabilitation Exercise Game
Peng Nan, Amnad Tongtib, Theeraphong
Wongratanaphisan
Chiang Mai University, Thailand

Conference Committees

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