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	Organization	Institute of BioMedical Informatics
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	Major Research Area	Decision Analysis Expert System Outcome Evaluation Mobile Technology Personal Informatics Nursing Informatics

Education

Ph.D., Health System, Industrial Engineering, University of Wisconsin–Madison

Experience

1996-Present	Professor, Institute of BioMedical Informatics, National Yang-Ming University
2017	Academicians, International Academy of Health Sciences Informatics
2014	Chairman, International Congress on Nursing Informatics

Courses

VBA Programming

Medical Decision Support and Expert Systems

機動應用程式設計

醫學資訊評估方法學

應用資訊程式設計

行動健康專題討論

Research in Medical Informatics

Honors & Awards

Publications

Journal Publications

1. *郭明娟,張博論.從美國 TIGER 護理資訊教育運動-反思台灣臨床護理資訊能力之發展策略,領導護理 2012;13(2):12-18.

2. Hou IC, *Chang P, Chan HY, Dykes PC. A Modified Delphi Translation Strategy and Challenges of International Classification for Nursing Practice (ICNPR), IJMI. 2012 (Accepted). (SCI)

3. Long AJ, *Chang P. The effect of using the Health Smart Card vs. CPOE reminder system on the prescribing practices of non-obstetric physicians during outpatient visits for pregnant women in

Taiwan, IJMI. 2012;81(9):605-611. (SCI)

4. Kuo MC, *Chang P, Feng RC, Westra B, Ball M. From Passion to Excellence: National NI Movement in Taiwan. CIN: Computers, Informatics, Nursing. 2012;30(5):234 - 236. (SCI)

5. Huang F, *Chang P. The feasibility of building a self-report component for the Taiwan version of MDS-NH. The Journal of Taiwan Association for Medical Informatics. 2011;20(4):39-51.

6. *Chang P. Critical success factors to develop intensive care unit information system. VGH Nursing. 2011;28(3):219-223.

7. Huang PJ, Lu SJ, *Chang P. Building a routine nursing records corpus, lexicon and its application in the speech recognition. The Journal of Taiwan Association for Medical Informatics. 2011;20(2):25-35.

8. *Chang P, Hsu CL, Liou YM, Kuo YY, Lan CF. Design and development of interface design principles for complex documentation using PDAs. CIN-Computers Informatics Nursing. 2011;29(3):174-183.(SCI)

9. Fang LP, *Chang P. The Visibility of Award-winning Health Websites on Search Engines. The Journal of Taiwan Association for Medical Informatics. 2010;19(4):35-43.

10. Chien LY, *Liou YM, Chang P. Low defecation frequency in Taiwanese adolescents: Association with dietary intake, physical activity and sedentary behaviour. Journal of Paediatrics and Child Health. 2011 Jun;47(6):381-6. (SCI)

11. Chang TJ, Tu MH,*Chang P. The Pilot Study of Nurse's Self-developing Documentation System:Kardex End-user Computing System. Yuan-Yuan Nursing. 2010;4(1):21-30.

12. *Dykes PC, Caligtan C, Chang P. Current applications and future trends in nursing informatics in the United States of America. Chinese Nursing Management. 2010;10(5):15-18.

13. *Chang P, Huang FP, Lai ML. The feasibility of using classification and identification techniques to auto-assess the quality of health information on the web. J Kor Soc Med Informatics. 2009;15(3):247-254.

14. Tai HL, Lin HW, Chang CC, Lin SA, Ko SH, *Chang P. Nurses developing an end-user-computing process research of information system-taking the hemodialysis nursing information system as an example. VGH Nursing. 2009;26(3):244-253.

15. Chang HJ, *Chang P. The development of a quality-and-multimedia-based health web information searching tool. Stud Health Technol Inform. 2009;146:286-90.

16. *Chang P, Hsu CL, Lan CF. Is PDA good for complex documentation in healthcare? Stud Health Technol Inform. 2009;146:115-20.

17. Hou IC, Liu CW, Hsu CL, *Chang P. The evaluation of using road-map guided Excel VBA training to promote nursing informatics in Taiwan. Stud Health Technol Inform. 2009;146:253-7.

18. Liu CW, Hou IC, Tu MH, *Chang P. An empirical study of end-user computing strategy in promoting the nursing informatics in Taiwan. Stud Health Technol Inform. 2009;146:641-5.

19. *Chang P, Hsu CL, Hou IC, Tu MH, Liu CW. The end user computing strategy of using Excel VBA in promoting nursing informatics in Taiwan. Perspectives in Nursing Science. The Research Institute of Nursing Science, Seoul National University, South Korea. 2008;5(1):45-58.

20. Long AJ, *Chang P, Li YC, Chiu WT. The use of a CPOE log for the analysis of physicians' behavior when responding to drug-duplication reminders. International Journal of Medical Informatics. 2008;77(8):499-506. (SCI)

21. *Chang P, Sheng YH, Sang YY, Wang DW. Developing a wireless speech- and touch-based intelligent

comprehensive triage support system. CIN-Computers Informatics Nursing. 2008;26(1):31-8. (SCI)

22. Kao WF, Shyu CL, Wang XW, Hsu TF, Chen JJ, Kao WC, Chang P, Huang YJ, Kuo FC, Huang CI, Lee CH. Athletic performance and serial weight changes during 12- and 24-hour ultra-marathons. Clinical Journal of Sport Medicine. 2008;18(2):155-158. (SCI)

23. *Liou YM, Chen MY, Chiang LC, Chien LY, Chang P, Hung YT. Experiences of a nation-wide integrated program for healthy body weight among students. The Journal of Nursing. 2007;54(5):30-6.

24. Jian WS, Hsu CY, Hao TH, Wen HC, Hsu MH, Li YC, *Chang P. Building a portable data and information interoperability infrastructure-Framework for a Standard Taiwan electronic medical record template. Computer Methods and Programs in Biomedicine. 2007;88(2):102-11. (SCI)

25. Wei TY, Han SL, Tseng WH, Yan FB, Chan KY, *Chang P, Lee WK. A pilot trial of a telephone-linked patient service system: spinal cord injury patients as an example. Taiwan Journal of Physical Medicine and Rehabilitation. 2008;36(1):15-27.

26. Hsu CJ, *Chang P. Applying the graphical relational representation technique to represent healthcare web information: taking the query and representation of SARS web Information as an example. The Journal of Taiwan Association for Medical Informatics. 2007;16(3):1-14.

27. She CC, *Chang P. Developing a RFID-and-PDA-based Nursing Shift Support System for Caring Clinical-Pathway In-Patients. The Journal of Taiwan Association for Medical Informatics. 2007;16(1)33-46.

28. Liu SC, *Chang P, Hsu CL, Lai HF. From Analyzing the Nursing Informatics Courses in Schools to Improving the Nursing Informatics Competencies. The Journal of Taiwan Association for Medical Informatics. 2007;16(1):79-91.

29. Chen HM, Liao YS, *Chang P, Yang CC, Chen WJ. Developing and Evaluating an End-User-Computing Ambulance Dispatching Support System. Journal of Healthcare Management. 2007;8(1):16-38.
Wung SH, Cheng ST, Huang YT, *Chang P. Evaluating a Nurse Self-developed Automatic Scheduling Support System. The Journal of Taiwan Association for Medical Informatics. 2006;15(4):71-80.
Hou IC, *Chang P, Liu SC. Applying Advanced Excel Techniques in Nursing. The Journal of Taiwan Association for Medical Informatics. 2006;15(3):73-84.

30. *Chang P, Sheng YH, Sang YY, Wang DW, Hsu YS, Hou IC. Developing and Evaluating a Wireless Speech-and-touch-based Interface for an Intelligent Comprehensive Triage Support Systems. Stud Health Technol Inform. 2006;122:693-7.

31. Hsiao FY, Chang P. Intelligent mobile voice information centre system: Taking the emergency triage support system as an example. Stud Health Technol Inform. 2006;122:664-8.

32. Hou IC, Chang P, Wang TY. Qualitative analysis of end user computing strategy and experiences in promoting nursing informatics in Taiwan. Stud Health Technol Inform. 2006;122:613-5.

33. Liu SC, Chang P, Huang F, Hou IC. Attitudes of nurses towards End-user Development. Stud Health Technol Inform. 2006;122:565-9.

34. Huang F, Liu SC, Shih SM, Tao YH, Wu JY, Jeng SY, Chang P. A Web-based short messaging service system to enhance family-centered surgical patient care. Stud Health Technol Inform. 2006;122:163-6.

35. Yang CM, Lin HC, Chang P, *Jian WS. Taiwan's perspective on electronic medical records' security

and privacy protection: Lessons learned from HIPAA. Computer Methods and Programs in Biomedicine. 2006;82(3):277-82.(SCI)

36. Chou SS, Lin LH, Tzeng YM, Chang P, *Chen YC. Development of the Nursing Care Plan Decision Support System. VGH Nursing. 2006;23(2):147-156.

37. Tang CH, *Chang P. Development of a Health Care Portal Building Toolkit：A Case of Diabetes Health Management Portal. The Journal of Taiwan Association for Medical Informatics. 2006;15(2):71-95.

38. Jian WS, Hsu CY, Liu MC, *Chang P, Wen HC, Hao TH, Li YC. The development of the Taiwan electronic Medical record Templates. The Journal of Taiwan Association for Medical Informatics. 2005:14:1-10.

39. Cheng ST, Wung SH, *Chang P. The Development of a Heuristic-based Excel Scheduling Support System for ICU Nurses. The Journal of Taiwan Association for Medical Informatics. 2005;14(3):45-62.

40. *Chang P, Chang KH, Long AJ. Developing Component-based Case Management and Workflow Supporting Systems on the Web with Diabetes Case Management as an Example. The Journal of Health Science. 2005;7(1):87-105.

41. *Chang P, Liu LL, Chien CW. Developing a Heuristic-based Excel Scheduling Support System for Attending Physicians. Journal of Healthcare Management. 2005;6(1):111-130.

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43. Tzeng YM, Chen SS, *Chang P, Chen YC, Sang YY. The User-acceptance Evaluation of Wireless Triage PDA Expert Support System. VGH Nursing. 2004;21(3):309-319.

44. Liu SC, Wu SC, Hsiao FY, *Chang P, Xu JR. The Evaluation of Quality of Healthcare Web sites in Taiwan: the report from the DOH's 2002 Healthcare Web Site Award. The Journal of Taiwan Association for Medical Informatics. 2004;13(2):1-10.

45. Hsiao FY, Wu HC, Liu SC Xu JR, *Chang P. The Quality Analysis of the Non-Award-Program-Enrolled Health Websites in Taiwan in 2002. The Journal of Taiwan Association for Medical Informatics. 2004;13(2):11-16.

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48. *Chang P, Liang YC. The Development of Chinese Arden Syntax Editor. The Journal of Taiwan Association for Medical Informatics. 2004;13(1):39-66.)

49. *Chang P. Tzeng YM, Wu SC, Sang YY, Chen SH. Development and Comparison of User Acceptance of Advanced Comprehensive Triage PDA Support System with a Traditional Terminal Alternative System. American Medical Informatics Association 2003 Symposium Proceeding; 140-144.

50. Long AJ, Liu CT, *Chang P. An Open Source Intelligent HL7 Agent for Integrating Laboratory Information. Journal of Information Technology in Medicine. 2003;1(5): 357-368.

51. Long AJ, *Chang P, Wang DW, Li YC. A Long March to Implement the Legally Accepted Electronic

Medical Record in Taiwan. Journal of Korean Society of Medical Informatics. 2003;9(2): p375-378.

52. *Chang P, Tang JS, Liu HW, Wang SC. The Development and Preliminary Evaluation Results of Feedback-based Hospital Drug Interaction Alert System. Formosa Journal of Clinical Pharmacy. 2003;11(1):57-74.

53. Long AJ, Liu CT, *Chang P, Hsu MH, Li YC, Jian WS, Liu SC. Adaptive Entry System for Electronic Medical Record. The Journal of Taiwan Association for Medical Informatics. 2004;17:1-16.

54. *Chang P, Tzeng YM, Sang YY. The Development of Wireless PDA Support Systems for Comprehensive and Intelligent Triage in Emergency Nursing. The Journal of Nursing. 2003;50(4):152-61.

55. *Chang P, Wu SC, Chou P, Chang HJ, He CM, Chang YC. Development of the PDA Support Systems for Community Preventive Medicine Services. Journal of Medical and Biological Engineering. 2003;23(1):45-51.

56. *Chang P, Liao YL, Wu SC. The Advanced Application of Web Services Techniques: Taking the Development of an User-Oriented-and-HL7-based Intelligent Universal Registry Web Services as an Example. The Journal of Taiwan Association for Medical Informatics. 2003;16:57-82.

57. Wei E, *Chang P, Kuo HS, Wu SC. The Attitudes and Reacting Strategies of Hospitals on Participating in the National Health Insurance IC Card Pilot Project in Taiwan. The Journal of Taiwan Association for Medical Informatics. 2003;16:105-113.

58. *Chang P, Tzeng YM, Wu SC, Sang YY. The 3+1 Snow-crystal-like information Representation Approach for the PDA-based Applications. The Journal of Taiwan Association for Medical Informatics. 2002;15:17-32.

59. *Chang P, Wu SC, Chou P, He CM. Empirical study of the use of PDA in community medicine. Taiwan Journal of Public Health. 2002;21:27-35.)

Conference Oral Papers/Posters

1. Chang HJ, *Chang P. The development of a quality-and-multimedia-based health web information searching tool. The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Oral)

2. *Chang P, Hsu CL, Lan CF. Is PDA good for complex documentation in healthcare? The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Oral)

3. Hou IC, Liu CW, Hsu CL, *Chang P. The evaluation of using road-map guided Excel VBA training to promote nursing informatics in Taiwan. The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Oral)

4. Liu CW, Hou IC, Tu MH, *Chang P. An empirical study of end-user computing strategy in promoting the nursing informatics in Taiwan. The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Oral)

5. Huang PJ, *Chang P. The feasibility study of building a routine nursing records corpus, lexicon and its applications in the speech recognition. The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Oral)

6. Tu MH, *Chang P. Developing a cost-effective home care management support system for small nursing homes in Taiwan. The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Poster)

7. Fang LP, *Chang P. The quality report of national ever-awarded helth websites in Taiwan. The 10th

International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Poster)

8. Lai HF, *Chang P. What makes nurses perveive differently on the usability of same system? The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Poster)

9. Lin CJ, *Chang P. Who attended the NI training programs in Taiwan? The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Poster)

10. Hsu CL, Chang ML, *Chang P. Analysis of the gap between nurses' expectations and satisfaction on a home-made discharge planning system. The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Poster)

11. Kuo MC, *Chang P. Developing a Visualized Patient-centered, Flow-based and Objective-oriented Care Path of Cardiac CATH Examination. The 10th International Congress on Nursing Informatics (NI2009), Helsinki, Finland, 2009. (Poster)

12. Chang P, Kuo MC. A simple and useful solution for visualizing the care flow for patients and healthcare professionals. American Medical Informatics Association 2008 Symposium, Washington, DC, USA, 2008.

13. Hsiao FY, Kuo YY, Chang P, Hsu CE. The development of integrated mobile-based home care support systems: MDS-HC as an example. American Medical Informatics Association 2008 Symposium, Washington, DC, USA, 2008.

14. Hsiao FY, Chang P, Hsu CE. Information disparities of Taiwan's health web sites by spatial variation. American Medical Informatics Association 2008 Symposium, Washington, DC, USA, 2008.

15. 涂明香, 張博論. 發展簡易可用性設計的評分表與健康網站評分系統的評估. 2008 Nursing Informatics Symposium in Taiwan, Taipei, Taiwan/ROC, 2008.

16. Chang P, Hsu CL. Is the quality of our national quality-and-accreditation-label-awarded health websites still good in the non-campaign period? American Medical Informatics Association 2007 Symposium, Chicago, IL, USA, 2007.

17. Hsu CL, Chang P. Developing an SDK of Usability-engineered Handheld Evaluation Aid. American Medical Informatics Association 2007 Symposium, Chicago, IL, USA, 2007.

18. Lai HF, Chang P. Developing an Usability-engineered Excel-based Nursing Administrative e-Form Generator information system. American Medical Informatics Association 2007 Symposium, Chicago, IL, USA, 2007.

19. Lai ML, Chang P. Developing an Automatic Accreditation Support System of health websites. American Medical Informatics Association 2007 Symposium, Chicago, IL, USA, 2007.

20. Huang FP, Liu SC, Shih SM, Tao YH, Wu JY, Jeng SY, Chang P. The Efficiency of Applying Short Message Service for Surgical Patient's Families. Medinfo 2007, Brisbane, Australia, August 20-24, 2007.

21. Hsu CL, Kuo YY, Chang P. Using PDA to transform the long MDS-HC evaluation form into a favored system. Medinfo 2007, Brisbane, Australia, August 20-24, 2007. (nominated for best poster)

22. Huang YC, Tseng WH, Chang P. Developing A Paper-based Surviving Sepsis Campaign Guidelines Compliance Support and Outcome Predicted System. Medinfo 2007, Brisbane, Australia, August 20-24, 2007.

23. Li PY, Chang HJ, Huang DJ, Chang P. Developing a Health Information Integrated Web Service With a concept of "Mash up". Medinfo 2007, Brisbane, Australia, August 20-24, 2007.

24. Lai ML, Chang P. Automatic Appraisal System. Medinfo 2007, Brisbane, Australia, August 20-24,

2007.

25. Lin CH, Phay KW, Hsy YH, Chang P. The Convergence of Bioinformatics and Medical Informatics : Bibliometric analysis of health informatics research 1991-2005. Medinfo 2007, Brisbane, Australia, August 20-24, 2007.

26. Hou IC, Chang P, Chien K, Liu SC, Yu HC, Huang YJ. Web2.0 in Building Nursing Information Portal. Medinfo 2007, Brisbane, Australia, August 20-24, 2007.

27. Chang P, Hou IC, Hsu CL, Lai HF. Are Google or Yahoo a good portal for getting quality healthcare web information? American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

28. Huang F, Liu SC, Shih SM, Tao YH, Wu JY, Jeng SY, Chang P. Reducing the anxiety of surgical patient's families access short message service. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

29. Chang TR, Chang P. User-customizing HIS interface by light programming tool: the case of redesigning the nursing Kardex with InfoPath 2003. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

30. Chen WC, Chang P, Chen LF. Developing a camera-phone-based drug barcode reader and support system. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

31. Chu YC, Jian WS, Yen LP, Chang P. Utilization of multimedia-based prototype system for patient electronic medical record. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

32. Hsiao FY, Kuo YY, Chang P. Developing an intelligent phone-based emergency triage communication and support system. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

33. Lai ML, Chang P. Developing a health web information gatekeeper. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

34. Liang YF, Chu PY, Chang CS, Wang CH, Chang P. Developing and evaluating a simple, spreadsheet-based pathology report extraction system for cancer registrars. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

35. Sheng YH, Chang P. A DSS with dynamically pluggable rules take emergency triage as example. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

36. Sun CC, Chang P. Prediction of unexpected emergency room visit after extracorporeal shock wave lithotripsy for urolithiasis-an application of artificial neural network in hospital information system. American Medical Informatics Association 2006 Symposium, Washington, DC, USA, 2006.

37. Chou CC, Feng RC, Chu YC, Chang P. Evaluation to the informatics system for health promotion management with MedModel simulation project. The 9th International Congress on Nursing Informatics (NI2006), Seoul, Korea, 2006.

38. Wung SH, Cheng ST, Chang P. Performance and acceptance evaluation of a self-made excel nurse scheduling supporting system. The 9th International Congress on Nursing Informatics (NI2006), Seoul, Korea, 2006.

39. Cheng ST, Wung SH, Chang P. The development of a heuristic-based excel scheduling support system for nurses. The 9th International Congress on Nursing Informatics (NI2006), Seoul, Korea, 2006.

40. Feng RC, Chang P. Demands and expectation for the e-learning model in clinical nursing education.

The 9th International Congress on Nursing Informatics (NI2006), Seoul, Korea, 2006.

41. Tseng WH, *Chang P, Ma TH. Building an Integrated OMR-and Paper-based Data Automatic Collection Support System. EMBEC '05, Prague, Czech Republic, 2005. (Oral)

42. Chen MJ, Chen C, Lan CF, *Chang P. Developing and Pilot Evaluating a Smartphone- and Palm-based Evaluation Support System in Home Care. EMBEC '05, Prague, Czech Republic, 2005. (Oral)

43. *Chang P, Sheng YH, Wang DW, Hsu YS, Hou IC. A Wireless Speech- and Touch-based Intelligent Comprehensive Triage Support System. EMBEC '05, Prague, Czech Republic, 2005. (Oral)

44. She CC, Huang PJ, *Chang P. A Patient-identification-oriented Nursing Shift Exchange Support System Using Wireless RFID PDA Techniques. EMBEC '05, Prague, Czech Republic, 2005. (Oral)

45. Hsiao FY, Lin LW, Chang GH, *Chang P. An Intelligent Mobile Voice Information Center System: Taking the Emergency Triage Support System as an Example. EMBEC '05, Prague, Czech Republic. EMBEC '05, Prague, Czech Republic, 2005. (Oral)

46. Hou IC, *Chang P. A Feasible Strategy of Promoting Nursing Informatics by End User Computing. Biomedical and Health Informatics: From foundations to applications to policy. American Medical Informatics Association 2005 Symposium, Washington, DC, USA, 2005.

47. Feng RC, Chu YC, Kuo YY, Chang TR, Chou CC, *Chang P. SIGMA simulation for health promotion management. Biomedical and Health Informatics: From foundations to applications to policy. American Medical Informatics Association 2005 Symposium, Washington, DC, USA, 2005.

48. Sun CC, *Chang P, Hwang TM. Automatic Appropriateness-Evaluation and Consultation-Suggestion of Antibiotics Usage via Mining of Previous Prescription Data in Hospital Information System. Biomedical and Health Informatics: From foundations to applications to policy. American Medical Informatics Association 2005 Symposium, Washington, DC, USA, 2005.

49. Chen MJ, Chen C, Kuo YL, Lan CF, *Chang P. Developing and Pilot Evaluating a Smartphone-and-Palm-based Evaluation Support System in Home Care. Biomedical and Health Informatics: From foundations to applications to policy. American Medical Informatics Association 2005 Symposium, Washington, DC, USA, 2005.

50. Hsu CJ, Lu CL, Chen WC, *Chang P. Application of Graphical Relational Representation Techniques in Healthcare Website: Taking SARS Website Information Query and Representation as an Example. Biomedical and Health Informatics: From foundations to applications to policy. American Medical Informatics Association 2005 Symposium, Washington, DC, USA, 2005.

51. Huang PJ, She CC, *Chang P. The Development of a Patient-Identification-Oriented Nursing Shift Exchange Support System Using Wireless RFID PDA Techniques. Biomedical and Health Informatics: From foundations to applications to policy. American Medical Informatics Association 2005 Symposium, Washington, DC, USA, 2005.

52. Ho IC, Huang J, and *Chang P. The Development of Health Support System during SARS Breakout. Building High Performance Health Care Organizations: Biomedical Informatics for Enhancing Health Care, Research, and Education. MedInfo 2004 Symposium, San Francisco, CA, USA, 2004.

53. Jian WS, Liu SC, Long AJ, and *Chang P. Construction of Taiwan's Healthcare Web Site Content and a Technical Analysis of Security - Using Web Sites Participating in the 2002 Web Site Award Sponsored by the DOH as Examples. Building High Performance Health Care Organizations: Biomedical Informatics for Enhancing Health Care, Research, and Education. MedInfo 2004 Symposium, San Francisco, CA, USA, 2004.

54. Hsiao FY, *Chang P, Jian WS. A Quality Analysis of Web Sites that Participated and Did Not Participate in the Evaluation Campaign for Taiwan's Health Web Sites. Building High Performance Health Care Organizations: Biomedical Informatics for Enhancing Health Care, Research, and Education. MedInfo 2004 Symposium, San Francisco, CA, USA, 2004.

55. Long AJ, *Chang P. The Development of the Semantic-based Intelligent Interactive Knowledge Architecture for the Health Education: Taking the Health Education for the Diabetics as an Example. Building High Performance Health Care Organizations: Biomedical Informatics for Enhancing Health Care, Research, and Education. MedInfo 2004 Symposium, San Francisco, CA, USA, 2004.

56. *Chang P, Hsu YS, Tzeng YM, Huo IC, Yiing-Yiing Sang. Development and Pilot Evaluation of User Acceptance of Advanced Mass-Gathering Emergency Medical Services PDA Support Systems. Building High Performance Health Care Organizations: Biomedical Informatics for Enhancing Health Care, Research, and Education. MedInfo 2004 Symposium, San Francisco, CA, USA, 2004. (Oral)

57. 沈鈺翔、陳櫻鐙、朱原嘉、*張博論:多模式使用者介面系統之開發：以急診檢傷為例·2004 台灣國際醫學資訊研討會論文集, 台灣, 嘉義:中正大學,10/16-17.

58. 曾文憲、*張博論、馬自恆：整合服務問卷調查系統之核心引擎設計·2004 台灣國際醫學資訊研討會論文集, 台灣, 嘉義:中正大學, 10/16-17.

59. 葉詠雲、*張博論:應用 Project 於臨床路徑管理輔助系統之開發:以腹式膽囊切除術為例·2004 台灣國際醫學資訊研討會論文集電子海報, 台灣, 嘉義:中正大學, 10/16-17.

60. 佘建成、*張博論:RFID 暨 PDA 臨床路徑患者照護護理交班輔助系統之開發·2004 台灣國際醫學資訊研討會論文集電子海報, 台灣, 嘉義:中正大學,10/16-17.

61. 魏聰祐、曾文憲、*張博論:中介監控代理人軟體整合既有醫療軟體之方法-以診斷輔助智慧型門診系統為例·2004 台灣國際醫學資訊研討會論文集電子海報, 台灣, 嘉義:中正大學, 10/16-17.

62. *張博論、朱原嘉、陳櫻鐙、沈鈺翔:模式使用者介面無線護理資訊系統可用性評估:以急診檢傷為例·2004 台灣國際醫學資訊研討會論文集電子海報, 台灣, 嘉義:中正大學, 10/16-17.

63. 侯宜菁、*張博論、莊寶玉: Excel-based 之系統引導性內科加護病房護理派班流程輔助系統之自助開發·2004 台灣國際醫學資訊研討會論文集電子海報, 台灣, 嘉義:中正大學, 10/16-17.

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