Curriculum Vitae

Personal Data

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| Educational Background | | | | | |
|------------------------|---|--|--|--|--|
| 1986-1990 | Doctor of Philosophy In Electrical Engineering Illinois Institute of Technology, Chicago, U.S.A. | | | | |
| Career Experiences | | | | | |
| 08/2016- PRESENT | Vice Superintendent, Department of Healthcare Administration | | | | |
| | and Medical Information, Kaohsiung Medical University | | | | |
| 08/2015- PRESENT | Professor, Department of Healthcare Administration and Medical | | | | |
| | Information, Kaohsiung Medical University | | | | |
| 04/2014- PRESENT | Professor, Institute of Biomedical Informatics (former Institute of Health Informatics and Decision Making), NYMU | | | | |
| 02/2016-07/2016 | Consultant ,Kaohsiung Medical University Chung-Ho Memorial | | | | |
| | Hospital | | | | |
| 2015-2015 | Professor, Department of Public Health, Kaohsiung Medical University | | | | |
| 1995-2014 | Associate Professor, Institute of Biomedical Informatics (former Institute of Health Informatics and Decision Making), NYMU | | | | |
| 2006-2008 | Center Director, Information and Communication Center, NYMU | | | | |
| 2005-2008 | Chief Information Officer, Taipei City Hospital | | | | |
| 2003-2004 | Director, Computer Center, Chi Mei Medical Center | | | | |
| 2002-2003 | Chairman, Institute of Health Informatics and Decision Making, NYMU | | | | |
| 1995-2000 | Center Director, Information and Communication Center, NYMU | | | | |
| Research Projects | | | | | |

| Title of Project | Project period | Funding Agency | Role in Project | Funding (NT\$) |
|---|---------------------|--|--------------------|----------------|
| Facilitating Nursing Guideline Revision base on Evidence Based Medicine Using Nursing Care Data Repository | 08/2015- 03/2017 | Ministry of Science and Technolog | PI | 762,000 |
| Field verification for integrated Postacute Care service | 03/2016- 12/2016 | Industrial Technology Research Institute. | PI | 950,000 |
| 具標準性之臨床知識建模工具設計 | 07/2016- 12/2016 | Industrial Technology Research Institute. | PI | 600,000 |
| Designing a user-experience based clinical trial research system model | 08/2014- 07/2015 | Ministry of Science and Technolog | PI | 589,000 |
| Developing clinical data repository conforming to standard ontologies – SNOMED CT | 08/2013- 07/2014 | Ministry of Science and Technolog | PI | 580,000 |
| Develop the research clinical data warehouse based on the patient privacy protection | 08/2012- 07/2013 | Ministry of Science and Technolog | PI | 507,000 |
| Development of an Automated Laboratory Reporting System for Infectious Diseases | 05/2012- 12/2012 | Ministry of Health and Welfare | PI | 1,800,000 |

Refereed Journal Papers

Journal Papers

- [1] Hsuan-Chia Yang , Shu-Hao Chang , Richard Lu , Der-Ming Liou* "The effect of particulate matter size on cardiovascular health in Taipe Basin, Taiwan", computer methods and programs in biomedicine December 2016 [SCI]
- [2] Ching-Heng Lin, Ying-Chih Lo,Pei-Yuan Hung,Der-Ming Liou* "Building Chronic Kidney Disease Clinical Practice Guidelines
 Using the openEHR Guideline Definition Language", Methods of
 Information in Medicine., Sep. 2016. [SCI]
- [3] C. H. Lin, Y. C. Fann, and **D. M. Liou***, "An exploratory study using an openEHR two-level modeling approach to represent common data elements," *J. Am. Med. Inf. Assoc.*, ocv137.Feb2016 . [SCI]
- [4] H.M. Tsao, Y. C. Sun, and **D. M. Liou***, "A Rational Approach to Estimating the Surgical Demand Elasticity Needed to Guide Manpower Reallocation during Contagious Outbreaks," *PLoS One*, vol. 10, April 2015. [SCI]
- [5] C. H. Lin, N. Y. Wu, and **D. M. Liou***, "A multi-technique approach to bridge electronic case report form design and data standard adoption," *J. Biomed. Inform.*, Sep. 2014. [SCI]

- [6] C. H. Lin, N. Y. Wu, W. S. Lai, and **D. M. Liou***, "The comparison of a semi-automatic annotation tool and a natural language processing application for the generation of clinical statement entries," *J. Am. Med. Inf. Assoc.*, Oct. 2014. [SCI]
- [7] S. C. Kang, F. T. Pai, S. J. Hwang*, H. M. Tsao, **D. M. Liou**, and I. F. Lin, "Non-cancer hospice care in Taiwan: a nationwide dataset analysis from 2005 to 2010," *J. Palliat. Med.*, vol. 17, pp. 407-14, Apr. 2014. [SCI]
- [8] H. L. Yeh, H. C. Tsou, H. C. Chiang, P. H. Chiang*, and **D. M. Liou***, "The use of heat map with hierarchical clustering in mortality risk to identify "hot-spots" risk factors in polluted industrial areas," *The Journal of Taiwan Association for Medical Informatics*, vol. 22, pp. 01-14, Jun. 2013. **[IM]**
- [9] M. L. Pan*, W. P. Chang*, H. C. Lee, H. L. Tsai, C. S. Liu, **D. M. Liou**, Y. J. Sung, and T. W. Chin, "A longitudinal cohort study of incidence rates of inguinal hernia repair in 0- to 6-year-old children," *J. Pediatr. Surg.*, vol. 48, pp. 2327-31, Nov. 2013. [SCI]
- [10] L. H. Lee, A. Groß, M. Hartung, **D. M. Liou***, and E. Rahm, "A multi-part matching strategy for mapping LOINC with laboratory terminologies," *J. Am. Med. Inf. Assoc.*, Dec. 2013. **[SCI]**
- [11] L. H. Lee, H. Y. Chu, and **D. M. Liou***, "Development of a Semantic-based Search System for Immunization Knowledge," *Medinfo*, pp. 258-62, Aug. 2013. **[IM]**
- [12] L. H. Lee, Y. T. Chou, E. W. Huang, and **D. M. Liou***, "Design of a personal health record and health knowledge sharing system using IHE-XDS and OWL," *J. Med. Syst.*, vol. 37, p. 9921, Apr. 2013. **[SCI]**
- [13] W. P. Chang, Y. C. Chi, M. L. Pan, Y. J. Sun, Y. C. Liao, C. C. Yang, and **D. M. Liou***, "Drug expense of atopic dermatitis in Taiwan," *Taipei City Med J*, vol. 10, pp. 229-243, Sep. 2013. **[DI]**
- [14] S. S. Abdul, L. F. Luque, W. S. Jian, Y. C. Li, S. Crain, M. H. Hsu, Y. C. Wang, D. Khandregzen, E. Chuluunbaatar, P. A. Nguyen, and **D. M. Liou***, "Misleading health-related information promoted through video-based social media: Anorexia on YouTube," *J. Med. Internet Res.*, vol. 15, p. e30, Feb. 2013. [SCI]
- [15] S. S. Abdul, J. Scholl, P. Lee, W. S. Jian, **D. M. Liou***, and Y. C. Li*, "Study on the potential for delay tolerant networks by health workers in low resource settings," *Comput. Methods Programs Biomed.*, vol. 107, pp. 557-64, Sep. 2012. [SCI]
- [16] S. S. Abdul, J. Scholl, C. C. Chen, M. D. Santos, W. S. Jian, **D. M. Liou**, and Y. C. Li*, "Telemedicine utilization to support the management of the burns treatment involving patient pathways in both developed and developing countries: a case study," *Journal of Burn Care & Research*, vol. 33, pp. e207-12, Jul. 2012. [SCI]
- [17] W. P. Chang, P. C. Chen, Y. H. Kuo, M. L. Pan, Y. J. Sung, **D. M. Liou***, and C. M. Wu, "An analysis of drug expenses in the national health insurance database for dry eye syndrome patients in 2008," *Cheng Ching Medical Journal*, vol. 8, pp. 18-26, Jul. 2012.
- [18] C. C. Wu, E. W. Huang, **D. M. Liou***, Y. C. Liang, Y. H. Wang, and H. W. Chen, "Study of Applying CDA Standard and Multimedia Program to Implement a Graphic Interface for Physician Order Entry," *The Journal of Taiwan Association for Medical Informatics*, vol. 21, pp. 27-40, Jun. 2012.

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- [20] N. Y. Wu, H. C. Cheng, J. S. Ko, Y. C. Cheng, P. W. Lin, W. C. Lin, C. Y. Chang*, and **D. M. Liou***, "Magnetic resonance imaging for lung cancer detection: Experience in a population of more than 10,000 healthy individuals," *BMC Cancer*, vol. 11, p. 242, Jun. 2011. [SCI]
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- [22] S. S. Abdul, C. W. Lin, J. Scholl, L. Fernandez-Luque, W. S. Jian, M. H. Hsu, **D. M.** Liou, and Y. C. Li*, "Facebook use leads to health-care reform in Taiwan," *Lancet*, vol. 377, pp. 2083-84, Jun. 2011. [SCI]
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- [32] 黄俊源, 張偉斌, 劉德明, and 朱惠中*, "使用HL7 V3建置多院區個人歸戶之電子病

歷—以台北市聯合醫院為例," 醫療資訊雜誌, vol. 17, pp. 1-17, Sep. 2008.

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- [1] **D. M. Liou***, "銀髮族健康照護科技應用與未來發展趨勢," presented at the 2014 The Modern Engieering & Technology Seminar, Taipei, Taiwan, Nov. 2014
- [2] C. H. Lin and **D. M. Liou***, "Design and implementation of responsibility hospitalemergency real-time information query and navigation system," in *Joint Conference of Medical Informatics in Taiwan 2014*, Taipei, Taiwan, Nov. 2014, p. 164
- [3] C. H. Lin, W. S. Lai, L. H. Lee, H. M. Tsao, and **D. M. Liou***, "An entry generation pipeline for converting free-text medical document into clinical document architecture document with entry-level," in *International Conferences on Biomedical and Health Informatics 2014*, Valencia, Spain, Jun. 2014, pp. 505-508
- [4] C. Y. Li*, E. W. Huang, and **D. M. Liou**, "A study of using Taiwan health statistics data to the analysis of contagious diseases prevention," in *Joint Conference of Medical Informatics in Taiwan 2014*, Taipei, Taiwan, Nov. 2014, pp. 125-130
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- [9] T. C. Tsai, C. H. Lin, U. C. Yang, and **D. M. Liou***, "建立可互通之臨床試驗表單研究," in *Joint Conference of Medical Informatics in Taiwan 2013*, Taipei, Taiwan, Nov. 2013, pp. 168-174

- [10] M. J. Li, Y. C. Liu, W. M. Wu, **D. M. Liou**, and U. C. Yang*, "An image core compatible anonymous clinical image system," in *Joint Conference of Medical Informatics in Taiwan* 2013, Taipei, Taiwan, Nov. 2013, pp. 89-95
- [11] B. W. Li and **D. M. Liou***, "Improve illustrations in electronic medical records of surgical domain with tablet PC," in *Joint Conference of Medical Informatics in Taiwan 2013*, Taipei, Taiwan, Nov. 2013, pp. 62-66
- [12] W. S. Lai, C. H. Lin, and **D. M. Liou***, "Using medical text extracting to structured medical problem list," in *Joint Conference of Medical Informatics in Taiwan 2013*, Taipei, Taiwan, Nov. 2013, p. 232
- [13] H. L. Yeh, P. H. Chiang, **D. M. Liou**, and H. C. Tsou, "Applications of heat map with hierarchical clustering in mortality risk "hot-spots" risk assessment in industrial polluted area," in *6th Asian Young Researchers Conference on Computational and Omics Biology*, Shenzhen, China, Dec. 2012, p. 65
- [14] K. H. Wang, E. W. Huang, C. W. Wang, P. L. Chung, and **D. M. Liou***, "Visualized monitoring system in discharge planning service established by business intelligence using a hospital in Taipei as an example," in *Joint Conference of Medical Informatics in Taiwan 2012*, Taipei, Taiwan, Oct. 2012, p. 286
- [15] H. M. Tsao, C. T. Chen, J. J. Fen, K. H. Shih, C. W. Chi, W. S. Chen, U. C. Yang, and D. M. Liou*, "Biomedical research information system," in *International Symposium on Clinical and Translational Cancer Research*, Kaohsiung, Taiwan, May 2012, pp. 116-117
- [16] F. T. Pai, N. C. Hu, J. D. Chen, and **D. M. Liou***, "糖尿病病患使用DPP4與否與常見感染性疾病之探討," in *Joint Conference of Medical Informatics in Taiwan 2012*, Taipei, Taiwan, Oct. 2012, pp. 199-202
- [17] **D. M. Liou***, "運用數位化醫院建設標準達到醫院訊息化集成," presented at the 第六屆中國醫院院長年會, Xiamen, China, Nov. 2012
- [18] Y. F. Lin and **D. M. Liou***, "Research on constructing the pedigree by using the clinical information," in *Joint Conference of Medical Informatics in Taiwan 2012*, Taipei, Taiwan, Oct. 2012, pp. 238-243
- [19] K. C. Liao, Y. J. Sung, and **D. M. Liou***, "A prototype platform for structured based of operative report," in *Joint Conference of Medical Informatics in Taiwan 2012*, Taipei,

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- [20] P. S. Li, C. H. Lin, and **D. M. Liou***, "A rule-based engine for constructing ontology-driven medical knowledge," in *Joint Conference of Medical Informatics in Taiwan 2012*, Taipei, Taiwan, Oct. 2012, pp. 192-198
- [21] B. W. Li and **D. M. Liou***, "Evaluation of electronic health record system to make illustrations in operation notes," in *Joint Conference of Medical Informatics in Taiwan* 2012, Taipei, Taiwan, Oct. 2012, p. 283
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- [23] G. H. Chen, T. C. Tsai, K. W. Ming, **D. M. Liou**, and U. C. Yang*, "Accelerate the multicenter clinical trial application by using an information management approach," in *Joint Conference of Medical Informatics in Taiwan 2012*, Taipei, Taiwan, Oct. 2012, p. 285
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- [25] C. H. Lin, U. C. Yang, and **D. M. Liou***, "Research on conversion the pathology report from free text to structure," in *Joint Conference of Medical Informatics in Taiwan 2011*, Taichung, Taiwan, Nov. 2011, pp. 171-176
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- [40] C. T. Chang, T. C. Tsai, K. Y. Chen, **D. M. Liou**, and U. C. Yang^{*}, "臨床試驗計畫追蹤 與管理系統的在地化實作," in *Joint Conference of Medical Informatics in Taiwan 2010*, Taipei, Taiwan, Sep. 2010, pp. 89-94

Invention Patent

| 類別 | 專利名稱 | 國別 | 專利號碼 | 發明人 | 專利權人 | 專利核准日期 |
|------|------------------------------|----|-----------------|--------|--------|------------------------|
| 發明專利 | 文件條目層轉換及電 子表單設計之方法和 系統 | | 發明第 I563403號 | 林敬恒劉德明 | 國立陽明大學 | 2016.12.21~ 2035.03.05 |