CURRICULUM VITAE

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School of Medical Informatics, Chung Shan Medical University, Taiwan
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Consultant Cancer Center of CSMU Hospital
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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.

FOUNDING CHAIRMAN ICMHI. ICHSM. HBAAI. JEBMI. MDSAT. ISMDS. DSiM

International Conference on Medical and Health Informatics (ICMHI) in 2017 www.icmhi.org
International Conference on Healthcare Service Management (ICHSM) in 2018 www.ichsm.org
Health Bigdata Analytics Artificial Intelligence Forum (HBAAI) in 2018 HBAAI
Joint Executive Board on Medical Informatics Taiwan (JEBMI) in 2018 JEBMI
Medical Decision Science Association of Taiwan (MEDSAT) in 2022 www.mdsat.org.tw
International Symposium on Medical Decision Science (ISMDS) in 2023 www.mdsat.org.tw/ismds2023
Decision Science in Medicine (DsiM) https://rasayely-journals.com/index.php/dsim

RESEARCH CONTRIBUTIONS

Machine Learning in Prediction of Second Primary Cancers / Recurrent cancers • Bioinformatics
Predict Glaucoma development before disease onset • Digital Traditional Chinese Medicine (TCM)
Risk Prediction for Early Chronic Kidney Disease (CKD) • Posttraumatic Growth (PTG)
Shared Medical Decision Making (SMDM-TRUST-REGRET-CONFLICT) • Quality of Life (QoL)
Clinical Operational Research • Healthcare Service Innovation and Management (HSM)

JOURNAL EDITORS

Editor-in-Chief Decision Science in Medicine (DsiM) • Diagnostics (SCI) • International Journal of Medical Sciences (SCI) • Therapeutics & Clinical Risk Management (SCI) • Frontiers in Genetics (SCI) • Journal of Universal Computer Science (SCI) • Open Medicine (SCI) • International Journal of Computers and Applications (EI/ Scopus) • Journal of Quality (EI/Scopus) • Journal of Computing Science and Engineering (EI/ Scopus) • Intl Journal of Business and Systems Research (EI/ Scopus) • ACM (EI/ Scopus) • Intl Journal of Management, Economics and Social Sciences (EI/ Scopus) • Journal of Electronic Science and Technology (INSPECT/ Scopus) • International Journal of Environmental Research and Public Health

JOURNAL PAPERS

- Jiun-Yi Hsia, Chi-Chang Chang*, Ying-Chen Chen (2024). Risk Factors Predicting Rectal Cancer Recurrence by machine learning model. Chung Shan Medical Journal.
- Frank Cheau-Feng Lin, Chia-Jung Wei, Zhe-Rui Bai, Chi-Chang Chang and Ming-Chuan Chiu*, Developing an explainable diagnosis system utilizing deep learning model: a case study of spontaneous pneumothorax, Physics in Medicine & Biology, DOI 10.1088/1361-6560/ad5e31. (SCI)
- Tsu-Wang Shen, Ming-Chun Tsai, Ting-Mao Chen, Chi-Chang Chang*, Photoacoustic method for measuring the elasticity of polydimethylsiloxane at various mixing ratios, Heliyon, Volume 10, Issue 11, 2024, e31726, ISSN 2405-8440, https://doi.org/10.1016/j.heliyon.2024.e31726. (SCI)
- Chen CC, Wei CJ, Tseng TY, Chiu MC, Chi-Chang Chang. Applying Object Detection and Large Language Model to Establish a Smart Telemedicine Diagnosis System with Chatbot: A Case Study of Pressure Injuries Diagnosis System. Telemed J E Health. 2024 Mar 21. doi: 10.1089/tmj.2023.0715. Epub ahead of print. PMID: 38512470. (SCI)
- Ming-Chuan Chiu, Stella Chin-Shaw Tsai, Zhe-Rui Bai, Abraham Lin, Chi-Chang Chang, Guo-Zhi Wang, Frank Cheau-Feng Lin, Radiographic chest wall abnormalities in primary spontaneous pneumothorax identified by artificial intelligence, Heliyon, Volume 10, Issue 9,2024, e30023, ISSN 2405-8440, https://doi.org/10.1016/j.heliyon.2024.e30023. (SCI)
- Chen, Chun-Chia, Wen-Chien Ting, Hsi-Chieh Lee, Chi-Chang Chang*, Tsung-Chieh Lin, and Shun-Fa Yang. 2024. "A Cost-Effective Model for Predicting Recurrent Gastric Cancer Using Clinical Features" Diagnostics 14, no. 8: 842. https://doi.org/10.3390/diagnostics14080842 (SCI)
- Tsai, M.-C.; Lojanapiwat, B.; Chi-Chang Chang; Noppakun, K.; Khumrin, P.; Li, S.-H.; Lee, C.-Y.; Lee, H.-C.; Khwanngern, K. Risk Prediction Model for Chronic Kidney Disease in Thailand Using Artificial Intelligence and SHAP. Diagnostics 2023, 13, 3548. https://doi.org/10.3390/diagnostics13233548 (SCI)
- Chu YW, Chi-Chang Chang. Editorial: Using physical & genomics markers for smart therapy via expert systems with computer learning. Front Genet. 2023 Nov 28;14:1336399. doi: 10.3389/fgene.2023.1336399. PMID: 38090152; PMCID: PMC10715404. (SCI)
- Lee, H.-C.; Lin, T.-C.; Chi-Chang Chang*.; Lu, Y.-C.A.; Lee, C.-M.; Purevdorj, B. Clinical Risk Factor Prediction for Second Primary Skin Cancer: A Hospital-Based Cancer Registry Study. Appl. Sci. 2022, 12, 12520. https://doi.org/10.3390/app122412520 (SCI)
- Tian-Fu Lee, Xiucai Ye, Wei-Yu Chen and Chi-Chang Chang*. Enhanced Authenticated Key Agreement for Surgical Applications in a Tactile Internet Environment. Sensors 2022, 22(20), 7941; https://doi.org/10.3390/s22207941 (SCI)
- Chan, Chien-Lung, and Chi-Chang Chang*. 2022. "Big Data, Decision Models, and Public Health" International Journal of Environmental Research and Public Health 19, no. 14: 8543. https://doi.org/10.3390/ijerph19148543 (SCI; SSCI)
- T-F Lee, T-L Gao, Chi-Chang Chang* Constructing a secure encryption and secret sharing mechanism for Taiwan biobank of a medical center, Journal of Technology, 2022, Vol.37,No.3,pp.211-224. (EI)
- Chi-Chang Chang*, Chi-Jie Lu. Preface for the Special Issue on Measuring Quality Improvement in Healthcare, *Journal of Quality*, 2022, 29(3), 177-179. (EI)
- Ying-Hui Yu, Chin-Fang Chang, Chi-Chang Chang*, Chalong Cheewakriangkrai Factors influencing recurrence of colorectal cancer after Chemotherapy. *Journal of Quality*, 2022, 29(3), 235-249. (EI)
- Huang L, Hu SW, Lu CJ, Chi-Chang Chang, Chen GD, Ng SC. The three-year evolution of overactive bladder syndrome in community-dwelling female residents aged 40 years and above. *Taiwan J Obstet Gynecol*. 2022;61(3):479-484. (SCI)
- H-Y Kao, Chi-Chang Chang*, C-F Chang*, Y-C Chen, Chalong Cheewakriangkrai, Y-L Tu Associations between sex and risk factors for predicting chronic kidney disease. *Int J Environ Res Public Health*. 2022, 19, 1219. (SCI; SSCI)

- C-C Shih, S-H Chen, G-D Chen, Chi-Chang Chang*, Y-L Shih Development of a Longitudinal Diagnosis and Prognosis in Patients with Chronic Kidney Disease: Intelligent Clinical Decision-making Scheme. *Int J Environ Res Public Health*. 2021, 18, 12807. (SCI; SSCI)
- Chi-Chang Chang*, T-H Huang, P-W Shueng, S-H Chen, C-C Chen, C-J Lu, Y-J Tseng Developing a Stacked Ensemble-based Classification Scheme to Predict Second Primary Cancers in Head and Neck Cancer Survivors. *Int J Environ Res Public Health*. 2021, 18, 12499. (SCI; SSCI)
- H-H Liao, Chi-Chang Chang*, Y-X Wang, Chalong Cheewakriangkrai Predicting the risk factors of second primary cancer in patients with hepatocellular carcinoma. *Studies in health technology and informatics*, 289, 93-96, 2022. (MEDLINE/PubMed)
- Chi-Chang Chang, Chen CC, Cheewakriangkrai C, Chen YC, Yang SF. Risk Prediction of Second Primary Endometrial Cancer in Obese Women: A Hospital-Based Cancer Registry Study. *Int J Environ Res Public Health*. 2021, 18, 8997. (SCI; SSCI)
- Chan, C.-L., Chi-Chang Chang* Big Data, Decision Models, and Public Health. International Journal of Environmental Research and Public Health 2020, 17(18), 6723. (SCI; SSCI)
- Ching-Hsuan Chien, Chi-Chang Chang, Shih-Huan Lin, Chi-Wei Chen, Zong-Han Chang and Yen-Wei Chu* (2020, Sep). N-GlycoGo: Predicting Protein N-glycosylation Sites on Imbalanced Data Sets by Using Heterogeneous and Comprehensive Strategy, *IEEE Access*, vol. 8, 165944-165950, 2020, doi: 10.1109/ACCESS.2020.3022629. (SCI)
- Chi-Chang Chang, Chi-Jie Lu, Chih-Te Yang* (2020, Sep). Multistage Supply Chain Production–Inventory Model with Collaborative Preservation Technology Investment, *Scientia Iranica*10. 24200/SCI.2020.53357.3200. (SCI)
- Chi-Chang Chang*, Chi-Jie Lu (2020, August). Preface for the Special Issue on Measuring Quality Improvement in Healthcare, *Journal of Quality*, 27(4). (EI).
- Chuen Chin, W-C Ting, Chi-Chang Chang*, Yi-Xiang Zhang (2020, August). Prediction of risk factors for Synchronous Colorectal Cancer in Patients with Colorectal Cancer, *Journal of Quality*, 27(4). (EI).
- Sun-Long Cheng, Chi-Chang Chang*(2020, August). Effect on the Quality of Life in Patients with Oral Cancer after Orthopedic Surgery: A Longitudinal Study, *Journal of Quality*, Vol. 27, No. 4. (EI).
- Chin-Chuan Shih, Chi-Jie Lu, Gin-Den Chen, Chi-Chang Chang* (2020, July). Risk Prediction for Early Chronic Kidney Disease: Results from an Adult Health Examination Program of 19,270 Individuals, *International Journal of Environmental Research and Public Health*, 2020, 17(14), 4973. (SCI; SSCI)
- K-P Chang, John Wang, Chi-Chang Chang* and Y-W Chu (2020, May). Development of a Novel Tool for the Retrieval and Analysis of Hormone Receptor Expression Characteristics in Metastatic Breast Cancer via Data Mining on Pathology Reports. *BioMed Research International*, Vol. 2020, Article ID 2654815. (SCI)
- Zi-Wei Wang, Chi-Chang Chang*, Quan Zou. (2020, April) COVID-19 Related Research by Data Mining in Single Cell Transcriptome Profiles. *Journal of Electronic Science and Technology*, Vol. 18, 1-5, 2020. (INSPECT/ Scopus)
- Jehn-Hwa Kuo, Chi-Chang Chang*, Chi-Wei Chen, Heng-Hao Liang, Chih-Yen Chang, Yen-Wei Chu* (2020, April). Sequence-Based Structural B-cell Epitope Prediction by Using Two Layer SVM Model and Association Rule Features. *Current Bioinformatics,* 15(3), 246-252. (SCI)
- Wen-Chien Ting, Horng-Rong Chang, Chi-Chang Chang* and Chi-Jie Lu (2020, Feb) Developing a Novel Machine Learning-Based Classification Scheme for Predicting SPCs in Colorectal Cancer Survivors, *Applied Sciences,* 2020, 10(4), 1355. (SCI)
- Chi-Chang Chang* and Ssu-Han Chen (2019, Sep). Developing a Novel Machine Learning-based Classification Scheme for Predicting SPCs in Women with Breast Cancer, *Frontiers in Genetics*, 2019, 10:848. (SCI)
- Jone-Han Liu, Chi-Chang Chang*, Chi-Wei Chen, Li-Ting Wong, Yen-Wei Chu* (2019, June). Conservation region finding for influenza a viruse by machine learning methods of N-linked glycosylation sites and B-cell epitopes, *Mathematical Biosciences, Vol.* 315, 2019, 108217 (SCI).
- L Xu, C-R Liao, G-D Chen and Chi-Chang Chang* (2019, Jan). k-skip-n-gram-RF: A Random Forest based Method for Alzheimer's Disease Protein Identification, *Frontiers in Genetics*, 2019. (SCI)

- Y-T Chen, Chi-Chang Chang*, C-W Chen, K-C Chen, Yen-Wei Chu (2019, Jan). 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 Chi-Chang Chang* (2018, Nov) An Efficient Classifier for Alzheimer's Disease Genes Identification, *Molecules* 2018, 23(12), 3140. (SCI)
- Chi-Chang Chang, Chi-Hua Tung, Chi-Wei Chen, Chin-HauTu, Yen-WeiChu* (2018, Oct) SUMOgo: Prediction of sumoylation sites on lysines by motif screening models and the effects of various post-translational modifications, *Scientific Reports*, S8:15512. (SCI)
- Chi-Chang Chang, Chi-Jie Lu, Chalong Cheewakriangkrai, Su-Hsin Chang (2018, June) Preface for the Special Issue on Computational Intelligence Technologies Meet Medical Informatics -From Prediction to Prognosis, *Journal of Universal Computer Science*, 24(6), 662-664. (SCI)
- C-W Chen, Chi-Chang Chang, H-C Hung, S-Y Ho, H-P Chang and Y-W Chu* (2018, June). Constructing Feature Models for Citrullination Sites Prediction. *Journal of Quality*, 25(3), 185-195. (EI).
- C-S Cheng, P-W Shueng, Chi-Chang Chang*, C-W Kuo (2018, June) Adapting an Evidence-based Diagnostic Model for Predicting Recurrence Risk Factors of Oral Cancer, *Journal of Universal Computer Science*, 24(6), 742-752. (SCI)
- Chi-Chang Chang and Chi-Jie Lu (2018, June). Preface for the Special Issue on Computational Intelligence Technologies Meets Medical informatics. *Journal of Quality*, Vol. 25, No. 3, 141-142. (EI).
- W-C Ting, Y-C Lu, C-J Lu, C. Cheewakriangkrai, Chi-Chang Chang* (2018, June). Recurrence Impact of Primary Site and Pathologic Stage in Patients Diagnosed with Colorectal Cancer. *Journal of Quality,* 25(3), 166-184. (EI).
- C-C Huang, Chi-Chang Chang, C-W Chen, S-Y Ho, H-P Chang, Y-W Chu* (2018, Feb). PClass: Protein Quaternary Structure Classification by Using Bootstrapping Strategy as Model Selection, *Genes*, Vol. 9, No. 2, pii: E91. (SCI)
- Huan-Cheng Chang, Pin-Hsiang Chang, Sung-Chin Tseng, Chi-Chang Chang* (2018, Feb). A comparative analysis of data mining techniques for prediction of postprandial blood glucose: A Cohort Study. *International Journal of Management, Economics and Social Sciences*, Vol. 7(S1), 132-141. (EI)
- Sunanda Das, Chi-Chang Chang, A. Kumar Das*, A. Ghosh (2017, Dec). Feature Selection based on Biobjective Differential Evolution. *Journal of Computing Science and Engineering*, 11(4), 130-141. (EI).
- Chih-Jen Tseng, Chi-Chang Chang*, Chi-Jie Lu (2017, June). Integration of ensemble learning and data mining techniques to predict risk factors for recurrent ovarian cancer. *Artificial Intelligence in Medicine*,78, 47-54. (SCI)
- Chi-Chang Chang, C-J Lu, C Cheewakriangkrai (2017, Dec). Preface for the Special Issue on Computational Intelligence Technologies Meets Medical informatics. *Journal of Computing Science and Eng.*, 11(4), 109110. (EI).
- Chih-Cheng Sun, Chi-Chang Chang* (2017, Nov) Multiple primary malignant neoplasms: Results from a 5Year Retrospective Analysis in a Metropolitan Hospital, *Formosan Journal of Surgery,* 50(6), 209-214.
- Yu-Ju Lin, Chiu- Hsiang Lee, Chi-Chang Chang* (2016). Evaluation of a Video-Based Intervention to Promote Condom Use Among College Students in Taiwan. *Studies in health technology and informatics*, 101-104. (MEDLINE/PubMed)
- Fang-Ching Liu and Chi-Chang Chang* (2016). Model-Based Individualized Treatment of Chronic Granulomatous Disease. *Studies in health technology and informatics*, 71-74. (MEDLINE/PubMed)
- H.H. Liao, S.L. Cheng, Chi-Chang Chang*, C.H. Lin, F.C. Liu, C.S. Cheng, (2016) Decisional Trust and Regret Mediate the HRQL in Work-related Hand Injury Patients*, European Psychiatry, 33, s595-596.* (SCI)
- Chi-Chang Chang* (2015) Shared Decision Making and Regret Plays Critical Roles of Posttraumatic Growth: a Longitudinal Study, *Medical Decision Making,* 36(5), E78-E415 (SCI)
- Chih-Kuang Chang, Chi-Chang Chang* (2014) Bayesian Imperfect Information Analysis for Clinical Recurrent Data, *Therapeutics and Clinical Risk Management*, 2015:11, 17-26. (SCI)

- Chi-Chang Chang* (2014) Developing the First Validity of Shared Medical Decision- Making Questionnaire in Taiwan, *Global Journal of Medical Research,* 14(2), 9-15.
- C-J Tseng, C-J Lu, Chi-Chang Chang*, G-D Chen (2013) Application of Machine Learning to Predict the Recurrence-Proneness for Cervical Cancer, *Neural Computing and Applic*ations, 24(6), 1311-1316. (SCI)
- Chi-Chang Chang* (2013) The effect on life quality of oral cancer patients after the orthopedic surgery, European Psychiatry, Volume 28, Supplement 1, 2013. (SCI)
- Chi-Chang Chang* (2011) Developing the first validation of the shared decision-making questionnaire in Taiwan, *Medical Decision Making*, 31(E54), E124-E125. (SCI)
- Chi-Chang Chang*, Cheng, C-S. (2007) A Structural Design of Clinical Decision Support System for Chronic Diseases Risk Management, *Central European Journal of Medicine*, 2(2), 129-139. (SCI)
- Chi-Chang Chang*, Cheng, C.-S., and Huang, Y.-S. (2006) A Web-Based Decision Support Systems for Chronic Diseases, *Journal of Universal Computer Science*, 12(1), 115-125. (SCI)
- Chi-Chang Chang*, Cheng, C.-S. (2006) A Bayesian Decision Process with Fuzzy Interpretability for Aging Chronic Disease, *International Journal of Technology Management*, 40, 1/2/3, 176-191. (SSCI)
- Huang, Y.-S., Chi-Chang Chang* (2004) A Study of Defuzzification with Experts' Knowledge for Deteriorating Repairable Systems, *European Journal of Operational Research*, 157(3), 658-670. (SCI)

CHAPTERS IN BOOKS

- Chi-Chang Chang*, 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.
- Chi-Chang Chang*, Chen, RS. Sun, PR. (2010) Applying Fuzzy Bayesian Maximum Entropy to Extrapolating Deterioration in Repairable Sys., *Machine Learning*, 978-953-307-033-9, INTECH, 2010.

SELECTED CONFERENCE PRESENTATIONS

- Chi-Chang Chang, Analysis of Risk Factors for Second Primary Cancer in Patients with Hepatocellular Carcinoma, The 23rd Conference of the International Federation of Operational Research Societies, July 10 - 14, 2023. Santiago, Chile.
- Ssu-Han Chen, Chi-Chang Chang, Chih-Te Yang, An Explainable Predicting Model for Stomach Cancer Recurrence-proneness, Int'l Health Sciences and Management Conf., June 16-19, 2022, Üsküdar University, Rector, Turkey.（Online)
- Ying-Chen Chen, Chi-Chang Chang, Wen-Chien Ting, Second Primary Esophageal Cancer among Head and Neck Cancer Survivors, Int'l Health Sciences and Management Conf., June 16-19, 2022, Üsküdar University, Rector, Turkey.（Online)
- H-H Liao, Chi-Chang Chang*, Y-X Wang, Chalong Cheewakriangkrai Predicting the risk factors of second primary cancer in patients with hepatocellular carcinoma. *ICIMTH2021*, Oct. 16-17, 2021, Athens, Greece.（Online)
- Chi-Chang Chang*, Ying-Chen Chen, Machine Learning Techniques to Predict Recurrent Breast Cancer inTaiwan, 2021 30th Wireless and Optical Communications Conference (WOCC), Oct. 7-8, 2021, Taipei, Taiwan.（Online)
- Chi-Chang Chang*, Wen-Chien Ting, Wen-Chieh Lai, Risk of Second Cancers and Recurrent Cancers Among Cancer Survivors in the Taiwan, 6th International Health Sciences and Management Conference, 20-22 May. 2021, Süleyman Demirel Üniversitesi, Isparta, Turkey.
- Ssu-Han Chen, Chi-Chang Chang, Using a Hybrid Classifier committee Method to Select Important Features for Head and Neck Cancer Recurrence-proneness, 6th International Health Sciences and Management Conference, 20-22 May. 2021, Süleyman Demirel Üniversitesi, Isparta, Turkey.
- Chi-Chang Chang*, Yen-Chiao Angel Lu, Ying-Chen Chen, Prediction of Recurrence in Patients with Breast Cancer, 6th International Health Sciences and Management Conference, 20-22 May. 2021, Süleyman Demirel Üniversitesi, Isparta, Turkey.

- Chi-Chang Chang*, Y-C Chen, Advanced Machine Learning in Prediction of Second Primary Cancer in CRC, *30thMedical Informatics Europe Conference*, April 24-May 2, 2020, Geneva, Switzerland. (Online)
- Chi-Chang Chang*, C. Cheewakriangkrai and Ying-Chen Chen Media Health Literacy Plays Critical Role of Shared Decision Making: Mediating or Moderating? *INFORMS,* Oct. 20-23, 2019, Seattle, USA.
- Chi-Chang Chang*, Ensemble Feature Learning for Predicting Risk Factors of Secondary Cancer, *Fifth Int.l Conf. on Machine Learning, Optimization, and Data Science*, Sep. 10-13, 2019, Siena-Tuscany, Italy.
- Chi-Chang Chang*, D Ma, Y-C Lu, C. Cheewakriangkrai, eHealth Literacy Plays Critical Role of Shared Decision Making, *19th World Congress of Psychiatry,* Aug. 21-24, 2019*,* Lisbon, Portugal.
- W-C Ting, Chi-Chang Chang*, S-H Chen, C-J Lu, G-D Chen, C. Cheewakriangkrai, Developing an Integrated Clinical Decision-making Scheme (ICDS) for Predicting SPCs in Women with Endometrial Cancer: A Retrospective Analysis in TW and Thai, *IACR Conference*, June 6-9, 2019*,* Vancouver, Canada.
- Chi-Chang Chang*, S-H Chen, C-J Lu, W-C Ting, G-D Chen, C. Cheewakriangkrai. Developing an Integrated Clinical-Decision-making Scheme (ICDS) for Predicting the Risk Factors of Second Primary Cancers, *40th Ann. Conf. of the Int'l Assoc. of Cancer Registries,* Nov. 13-15, 2018*,* Arequipa, Peru.
- Chi-Chang Chang*, W-C Ting, C. Cheewakriangkrai, P-W Shueng. A Nationwide Retrospective Analysis of SPMs in Taiwanese Women: 1996-2010, *The XXII FIGO,* Oct. 14-19, 2018*,* Rio de Janeiro, Brazil.
- Chi-Chang Chang*, C. Cheewakriangkrai, Y-C Lu, Modelling Hcw's Strategic Behaviour For HealthcareAssociated Infections, *3rd Int'l Health Sciences and Management Conf.,* Oct. 3-6, 2018*,* Sofia, Bulgaria.
- Chi-Chang Chang*, Y-C Lu, Ch. Cheewakriangkrai. Combination of Assoc. Rules and Machine Learning Techniques for Predicting Recurrent Gynecologic Cancer, *17th IGCS,* Sep. 14-16, 2018*,* Kyoto, Japan.
- D. Tinnangwattana, C. Cheewakriangkrai, Chi-Chang Chang. Etoposide Plus Platinum-based Adjuv. Chemother. on Small Cell Neuroendocrine Carcinoma of Cervix, *17th IGCS,* Sep. 14-16, 2018*,* Kyoto, Japan.
- Y.C. Lu, T.M. Lin, Chi-Chang Chang*. Medical-seeking Behavior as Mediator in Relation to Posttraumatic Growth in Oral Cancer Survivors: A Longitudinal Study. *26th* EPA*,* Mar 3-6, 2018, Nice, French.
- Chi-Chang Chang*, G-D Chen, W-C Ting, C. Cheewakriangkrai. Risk Factors of New Primary Cancers After Breast Cancer:5-Year Retrospective Analysis in Taiwan, *20th* ESGO, Nov 4-7, 2017, Vienna, Austria.
- W-C Ting, Chi-Chang Chang*, C. Cheewakriangkrai. Incidence Trends for MPMNs (2010-2014): Results from a Hospital-based Cancer Registry in Taiwan. *39th IACR*, Oct. 17-19, 2017, Utrecht, Netherland.
- S-L Cheng, H-H Liao, P-W Shueng, H-C Lee, C. Cheewakriangkrai, Chi-Chang Chang*, Oral Cancer Patients' Preference in Medical Decision Making and QOL. *15th ICIMTH*, July 7-9, 2017, Athens, Greece.
- H-H Liao, S-L Cheng, P-W Shueng, H-C Lee, C. Cheewakriangkrai, Chi-Chang Chang*, Decisional Conflict in Work-related Hand Trauma Patients. *15th ICIMTH*, July 7-9, 2017, Athens, Greece.
- Chi-Chang Chang*, Decisional Trust and Regret Mediate the HRQL in Work-related Hand Injury Patients. *24th European congress of Psychiatry EPA 2016*, Mar 12-15, 2016, Madrid, Spain.
- Y-J Lin, C-H Lee, Chi-Chang Chang*. Evaluation of a Video-based Intervention to Promote Condom Use among College Students in Taiwan. *14th ICIMTH*, July 1-3, 2016, Athens, Greece.
- F-C Liu, Chi-Chang Chang*. Model-based Individualized Treatment of Chronic Granulomatous Disease. *14th ICIMTH*, July 1-3, 2016, Athens, Greece.
- Chi-Chang Chang*, Shared Decision Making and Regret Plays Critical Roles of Posttraumatic Growth: a Longitudinal Study. *The 35th Society for Medical Decision Making*, Oct. 17-21, 2015, St. Louis, USA.
- P-S Su, T Teng, C-H Hsu, Chi-Chang Chang*. Patients' Trust for Involvement in Shared Decision Making: A Longitudinal Study. *34th Society for Medical Decision Making*, Oct. 19-22, 2014*,* Miami, USA.
- Chi-Chang Chang* Factors affecting decisional conflict for patients with cervical cancer in Taiwan: an observational study, *5th World Congress on Women's Mental Health*, March 4-7 2013, Lima, Peru.
- Chi-Chang Chang* The Effect on Life Quality of Oral Cancer Patients after the Orthopedic Surgery, *21st European Congress of Psychiatry*, 6-9 April, 2013, Nice, French.
- Chi-Chang Chang* Analysis of prognostic factors in patients relapsed ovarian cancer, *2013 INFORMS Annual meeting,* Oct. 6-9, 2013, Minneapolis, United States of America.

- Chi-Chang Chang* T Teng, Predicting the Recurrent Factors of Cervical Cancer using C5, MARS and RF: a comparison study, *18th ESGO*, Oct. 19-22, 2013, Liverpool, United Kingdom.
- Chi-Chang Chang* Determine Predictors of Life Quality Among Oral Cancer Patients with Orthopedic Trauma, *7th Annual Chicago Supportive Oncology Conference,* Oct. 28-29, 2011, Chicago, USA.
- Chi-Chang Chang* Developing the First Validation of Shared Decision-making Questionnaire in Taiwan, *32st Annual Meeting of the Society for Medical Decision Making*, Oct. 24-27, 2010, Toronto, Canada.
- Chi-Chang Chang* Bayesian Inference of a Nonhomogeneous Poisson Process with Exponential Model for Recurrent Events, *15th* AMCIS, Aug 6-9, 2009, San Francisco, United States of America.
- Chi-Chang Chang* Measuring Taiwanese Patients' Readiness for Involvement in Medical Decision-making, *31st Annual Meeting of the Society for Medical Decision Making*, Oct 18-21, 2009, LA, USA.

INVITED TALKS/ KEYNOTE SPEAKER

- New Future in Health: Integrated Health Services, 9th International Conference on Health Sciences and Management, 23-25 May 2024 in Istanbul, Turkiye.
- 人工智能用於癌症患者早期臨床風險預測：邁向多學科研究的未來, Dec. 11-14, 2023, Guangzhou University, China.
- Dialogue on the future of tradition: Reflections Towards the AI in Medical, Sivas Cumhuriyet University, Sivas, Turkiye, Dec. 1, 2023.
- Turkish Youth Dialogue: the emerging generation involved in international research, Selçuk Üniversitesi. Konya, Oct. 16, 2023.
- AI for Cancer Patients in the Early Clinical Risk, The 7th International Conference on Advances in Artificial Intelligence (ICAAI 2023) October 13-15, 2023 in Istanbul, Turkiye.
- The Past, Present and Future of Health Management: Celebrating the 100th anniversary of the Republic with innovation and excellence, 6th International and 16th National Health and Hospital Administration Congress, October 12-14 2023, Konya, Turkiye.
- Reflections Towards the Future of Medical Tourism in the Post-Pandemic, Health Tourism and Its Future in Turkiye, Faculty of Business Administration - Lamia Ergenekon Hall (Red Hall) ATILIM University 26 OCT. 2022, Ankara, Turkiye.
- New Approaches in Cancer Treatment, 6th International Health Sciences and Management Conference, 2022 May. 2021, Süleyman Demirel Üniversitesi, Isparta, Turkey.
- Evidence-based Prevention Practice in SPCs and Recurrence: Retro- and Prospect in Asia Pacific, Fu Jen Catholic University, April 8, 2020.
- AI as Risk Assessment Tool in Patients with SPC-CRC, Healthcare EXPO TAIWAN(台灣醫療科技展),Dec8, 2019.
- 後現代臨床醫學殖民表象與林布蘭的前景，第三屆後現代整合學及通識教育研討會-AI 與社會
- Developing Interdisciplinary Research and Collaboration in Med. Science, Jen-Ai Hospital, Sep 20, 2019.
- Toward Cancer Data Ecosystems: Cancer Registry as Service, TW Society of Cancer Registry, Aug 30, 2019.
- Connecting Medical Informatics and Clinical Practice on Medicine Research- A viewpoint of Cancer Research Data Ecosystem, Chiang Mai University Hospital, Chiang Mai, Thailand, Jan 10, 2019.
- Toward Cancer Data Ecosystems: Cancer Registry as a Service, Fu Jen Catholic University, Nov 30, 2019.
- Connecting Medical Informatics and Clinical Practice on Medicine Research, NCHU, May 24, 2019.
- The International Conference on Soft Computing in Data Analytics (CSDA 2018), Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, India, March 10-11, 2018.
- 3nd Intl Conf. on Health, Medicine and Life Sciences (MEDLIFE2016), Hangzhou, China, Dec 12-14, 2017.
- World Congress on Biomedical Engineering and Medical Informatics, Hangzhou, China, Nov 22-23, 2017.

- Using Cancer Registry Data to Enhance MPMNs Control Programs Development, 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, Dec16-18, 2016.
- Application of Machine Learning to Predict the Colorectal Cancer Recurrence, 2016 2nd International Conference on Health, Medicine and Life Sciences (MEDLIFE2016), Shanghai, China, Dec. 13-14, 2016.
- Rethinking Behavior Change Strategies for Increasing Condom Use among College Students, Int. Conf. on Environmental Research and Public Health (ICERP2016), Shenzhen China, Oct. 21-23, 2016.
- Rethinking an In-service Training Program for Nurses' Strategic Hand Hygiene Behavior," 2016 International Conference on Psychology and Behavioral Sciences, Xi'an, China, July 28-29, 2016.
- Reliability Modeling and Decision Analysis in Repairable Systems," 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 Cancers Recurrence, Tunghai Univ, 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 Program for Nurses' Strategic Hand Hygiene Behavior, 2016 International Conference on Modern Education and Social Science 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 in Taiwan, Industrial Engineering and Enterprise Information, Tunghai University, Taichung, Taiwan, Apr 12, 2015.
- Review of Health Services Research (HSR) in Taiwan, Department of Industrial Engineering and Management, Ming Chi University, Taipei, Taiwan, Jan 22, 2012.

GRANTS

Ministry of Science and Technology 科技部計畫

NSTC 112-2221-E-040-007-MY2 - Validation of a longitudinal diagnosis and prognosis for early recurrence of hepatocellular carcinoma in Taiwan and Türkiye - a novel multimodal fusion and interpretable machine learning

MOST 111-2321-B-040-001 臨床資料庫與 AI 跨域開發加值應用- Cancer Registry AI-CDSS for Big Data Research (4/4)

MOST 111-2321-B-040-001 臨床資料庫與 AI 跨域開發加值應用- Cancer Registry AI-CDSS for Big Data Research (3/4)

MOST 110-2321-B-040-001 臨床資料庫與 AI 跨域開發加值應用- Cancer Registry AI-CDSS for Big Data Research (2/4)

MOST 110-2221-E-040-004-MY2 Validation of a Longitudinal Diagnosis and Prognosis for Chronic Kidney Disease Patients in Taiwan and Thailand- Intelligent Clinical Decision-making Scheme

MOST 109-2321-B-040-001-臨床資料庫與 AI 跨域開發加值應用- Cancer Registry AI-CDSS for Big Data Research (1/4)

MOST 109-2221-E-040-006- Developing Evidence-based Clinical Diagnosis, Prediction and Prognostic for CKD and Cancers

MOST 108-2321-B-040-001-MY2 [COPI] 腦科學專案計畫 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 108-2221-E-035-034-MY2 [COPI] Photoacoustic Technology as a Non-Invasive Meth. to Detect the Degree of Carotid Vascular Sclerosis

MOST 108-2221-E-040-004- Exploring the Evidence-based Control Programs for Male with MPMNs in TW and US (II)

MOST 107-2221-E-040-009- Exploring the Evidence-based Control Programs for Male with MPMNs in TW and US (I)

MOST 106-2218-E-040 -001 -MY2 新南向計畫 Evidence-based CDSS for Gynecologic Cancer in Northern Thailand-- Contributions to International Efforts

MOST 106-2221-E-040-010- Obesity and age-period-cohort analyses on mortality rate of endometrial cancer in TW and United States

MOST 104-2633-E-040-001- 百人拓荒計畫 The Maze Runner of HIV/AIDS: it's about you!

MOST 102-2633-E-040-001- 百人拓荒計畫 A Novel Prognostic Index Model and Health Technology Assessment in Endometrial Cancer

MOST 101-2410- H-040-009- Longitudinal Dynamic Analyse of PTG and QoL Regarding Cervical Cancer Treatment - A SEM Study

MOST 99-2628-E-040-001- Bayesian Inference for Cervical Cancer in Survival Analysis

MOST 98-2410-H-040-006-MY2 A critical Stakeholder Analysis for Patient Shared Decision-making

Short-term Visit Grant 國際科技人士短期訪問

MOST 113-2912-I-040-501 Ahmet Murat Özbayolu (Turkiye)

MOST 109-2912-I-040-501 Reinhold Haux (Germany)

MOST 108-2912-I-005-501（NCHU）Taka-Aki Sato (Japan)

MOST 107-2912-I040-501 Chou-Hong Chen (USA)

MOST 106-2912-I-040-502 Tetsuya Sakurai (Japan)

MOST 105-2816-B-040-001 Quan Zou (Tianjin University)

MOST 102-2912-I-040-503 Chung-Li Tseng (Australia)

STD Ministry of Science and Technology 指導大專學生參與科技部計畫

MOST 109-2813-C-040-006-E Prediction of Risk Factors for Synchronous CRC in CRC Patients

MOST 106-2813-C-040-003-E Risk Predictive Factors in SPMs for Colorectal Cancer Survivors

MOST 104-2815-C-040-060-E Integrated Architecture for Endometrial Cancer Relapse Prediction

MOST 103-2815-C-040-028-E Developing an Advanced Machine Learning and Ensemble Learning

MOST 102-2815-C-040-005-H Machine Learning to Predict Recurrence-Proneness for Cervical Cancer

MOST 98-2815-C-040-006-E Patient's Preferences for Involvement in Shared Decision-making

CSMU Hospital Project 中山醫學大學附設醫院計畫

CSH-2024-C-027 Development of Image-based Deep Learning System in Diagnosis of Liver Fibrosis and Recurrence Detection of HCC for Clinical Decision Support System

CSH-2024-C-029 Validation of a longitudinal diagnosis and prognosis for second primary cancer- a novel multimodal fusion model

CSH-2023-C-026 A Second Primary Cancer Prediction Model based on Decision Curve Analysis and Clustering Machine Learning Methods for Lung Cancer Survivors

CSH-2022-D-010 Exploring the Relationship between Immunity, Treatments and QOL following SARS-CoV-2 Vaccination Among Patients with Breast Cancer

CSH-2022-C-003 Developing the Comprehensively Glaucoma Prognosis Program by Artificial Intelligence Method

CSH-2022-C-038 Predicting the risk factors of second cancer and recurrence in patients with hepatocellular carcinoma: machine learning techniques
CSH-2022-C-035 Developing Evidence-based Control Programs of Second Primary Cancer and recurrence for Patients with Head and Neck Cancer
CSH-2021-D-012 The Implementation of Evidence-based Practice for Chronic Kidney Disease and Cancers in Taiwan and Thailand—A Bilateral International Cooperation Project
CSH-2020-C020 Predicting the Risk Factors of Syn- and Meta- SPCs and Recurrent Colorectal Cancer
CSH-2018-D-002 Developing Control Programs for Women with MPMNs: Multi-International Cooperation
CSH-2018-A-015 Risk Factors of Multi-Primary Malignant Neoplasms (MPMNs) in Oral Cancer Survivors
CSH-2018-A-008 Applying Data Mining Techniques for Prediction on Recurrent Oral Cancer
CSH-2017-A-012 Risk of Second Primary Malignancies after Colorectal Cancer: Data Mining Technology
CSH-2017-A12-1 The treatment of Health Technology Assessment in Recurrent Colorectal Cancer
CSH-2017-A12-2 A Novel Prognostic Index Model of Recurrent CRC: (non)-Randomized Studies Construct
CSH-2015-A-006 Applying Data Mining Techniques for Prediction on Recurrent Colorectal Cancer
CSH-2015-A-014 A Video-based Intervention to Promote Condom Use among College Students in TW
CSH-2015-A-017 Trauma and Life Quality in Work-Related Hand Injury Patients: Cross-Sectional Study
CSH-2015-A-012 Exploring Plastic Surgery Patients' Preference in Medical Decision Making
CSH-2014-C-018 A Systemic View of the Comprehensively Ovarian Cancer Prognosis Program
CSH-2014-C18-1 Applying Data mining Techniques for Ovarian Cancer Prevention

University Cooperative Research Project 跨校學術合作研究計畫

NCHU- CSMU 1090X 中興大學 Automatic histological grading for brain cancer via deep learning
NCHU- CSMU 1080X 中興大學 AI Approaches for Constructing Disease Risk Factor Analysis Model
FCU-CSMU 10701 逢甲大學 Glycemic Control on Multiple Myeloma Using Photoacoustic Spectrum
NCHU- CSMU 10705 中興大學 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-10612 中興大學 Machine Learning Applications in MPMNs prediction

Hospital Cooperative Research Project 跨院際產學合作計畫

CSMU-CM-110-04 奇美醫院 Predicting the Risk Factors of Second Primary Cancer and Recurrent for Rectal Cancer Patients after Radiotherapy
CSMU-TSMH-108-2 屏東東港醫院 Machine Learning Techniques to Predict Risk Factor of Dialysis
CSMU-JAH-103-001 大里仁愛醫院 Bayesian Imperfect Information Analysis for Clinical Recurrent Data
CSMU-POHAI-107-1 羅東博愛醫院 Risk of SPMs after Local Advanced Rectal Cancer: DataMining Teches
CSMU-JAH-107-001 大里仁愛醫院 Comput. Intel. & Feature Select. for protein function and modification
CSMU-LSH-107-002 桃園聯新醫院 Prediction of postprandial blood glucose: machine learning techniques
CSMU-JAH-107-002 大里仁愛醫院 PTS disorder and PTG among cancer patients: cohort studies
CSMU-JAH-106-001 大里仁愛醫院 Data Mining applications in SPMs prediction
CSMU-JAH-105-001 大里仁愛醫院 MPMNS: a 5-Year Retrospective Analysis in a Metropolitan Hospital
CSMU-JAH-105-016 大里仁愛醫院 A prediction model of diabetic nephropathy and identify risk factors
CSMU-JAH-104-001 大里仁愛醫院 Exploring Patients' Preference in Medical Decision Making and QOL
CSMU-LSH-102-002 桃園聯新醫院 QOL after PTG for cervical cancer: a 18 months follow-up study
CSMU-JAH-101-001 大里仁愛醫院 Evaluation of the functional result and QOL after orthopedic surgery
CSMU-TSMH-099-1 屏東東港醫院 Dental Patients' Preference in Med. Decision Making between TW&UK

HOSTING INTERNATIONAL ACADEMIC ACTIVITIES

INTERNATIONAL CONFERENCES 創辦三項國際會議

2017 International conference on Medical and Health Informatics (ICMHI)
2017.5.20-22, Chung Shan Medical University, Taichung, Taiwan
Theme: Medical Informatics Meets Quality Health Care - From Prediction to Prognosis
2018 International conference on Medical and Health Informatics (ICMHI)
2018 International conference on Healthcare Service Management (ICHSM)
2018.6.8-10, University of Tsukuba, Japan
Theme: Seamless Ubiquitous IT & Applications over the Evolution of Medical Informatics
2019 International conference on Medical and Health Informatics (ICMHI)
2019 International conference on Healthcare Service Management (ICHSM)
2019.5.17-19, Xiamen, China
Theme: Healthy data put to good use for better integrated care
2020 International conference on Medical and Health Informatics (ICMHI)
2020 International conference on Healthcare Service Management (ICHSM)
2020.8.14-16, Kamakura, Japan (Online)
Theme: Empowering Ecosystem Services throughout the World
2021 International conference on Medical and Health Informatics (ICMHI)
2021 International conference on Healthcare Service Management (ICHSM) 2021.5.14-16, Kyoto, Japan (Online)
Theme: Accelerating the Evolution of the Whole-evidence Approach to Promote Health
2022 International conference on Medical and Health Informatics (ICMHI)
2022 International conference on Healthcare Service Management (ICHSM)
2022.5.13-15, Kyoto, Japan (Online) *Theme: Validation, Let the evidence Speak!*
2023 International conference on Medical and Health Informatics (ICMHI)
2023 International conference on Healthcare Service Management (ICHSM)
2023.5.12-14, Kyoto, Japan (Physical and Online)
Theme: Healthcare Management and Medical Decision Science in the Post-Pandemic Era
2023 International Symposium on Medical Decision Science (ISMDS)
2023.8.28-31, Ulaanbaatar, Mongolia *Theme: Healthcare Management and Medical Decision Science in the PostPandemic Era*
2024 International Symposium on Medical Decision Science (ISMDS)
2024.2.14-17, Chiang Mai, Thailand *Theme: Transforming Healthcare Management and Medical Decision Science*
2024 International conference on Medical and Health Informatics (ICMHI)
2024.5.17-19, Yokohama, Japan (Physical and Online)
Theme: Beyond the future Healthcare Delivery
2024 International conference on Healthcare Service Management (ICHSM)
2024.9.6-8, Istanbul, Turkiye (Physical and Online)
Theme: Beyond the future Healthcare Delivery

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Conference Chairs

Program Chairs

KEYNOTE SPEAKERS

Publicity Chairs

Technical Program Committee Chairs

Session Chairs

Technical Program Committee Members

Dr. Jatupol Srisomboon, Chiang Mai University, Thailand
Dr. Chailert Phongnarisorn, Chiang Mai University, Thailand
Dr. Sitthicha Siriaree, Chiang Mai University, Thailand
Dr. Krit Khwan-ngern, Chiang Mai University, Thailand
Dr. Tse-Hung Huang, Chang Gung University, Taiwan
Dr. Yuri Ito, Osaka International Cancer Institute, Japan
Prof. Pei He, Guangzhou University, China
Dr. Ayako Okuyama, National Cancer Center for Cancer Control, Japan
Prof. Hsu-Ju Teng, Chung Shan Medical University, Taiwan
Prof. Shi-Yi Wang, Yale University, United States
Prof. Yu-Hsien Chiu, Kaohsiung Medical University, Taiwan
Prof. Chun-Wang Wei, Kaohsiung Medical University, Taiwan
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Prof. Liang-Tsung Huang, Tzu Chi University, Taiwan
Prof. Wen-Cheng Lin, Tzu Chi University, Taiwan
Prof. Sedat Bostan, Gumushane University, Turkey
Prof. Taşkın Kılıç, Gumushane University, Turkey
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Dr. Nazmul Huda MBBS, Global Activities Manager, Bangladesh
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Prof. Liang-Cnih Yu, Yuan Ze University, Taiwan
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Prof. Hong-Chun Hsu, Tzu Chi University, Taiwan
Dr. Sethawat Sethasathien, Chiang Mai University, Thailand
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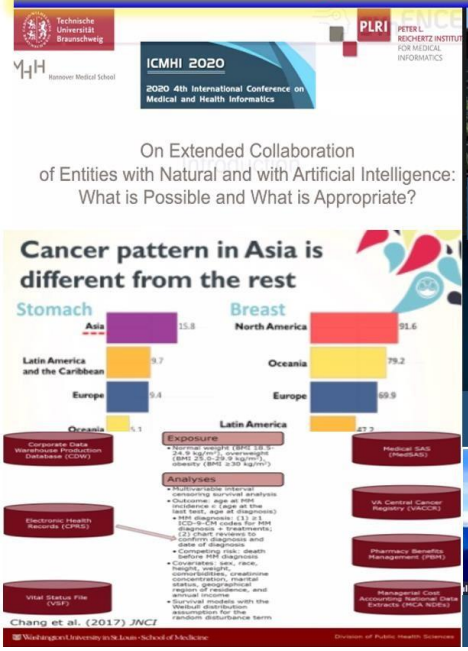
Prof. Ilker Köse, Medipol University, Turkey
Dr. Kaung Myat Shwe, Nay Pyi Taw General Hospital, Myanmar
Prof. Yi-Chun Du, Southern Taiwan University of Science and Tech., Taiwan
Prof. Chih-Lin Hu, National Central University, Taiwan

KEYNOTE SPEAKERS

Empowering Ecosystem Services throughout the World



Prof. Reinhold Haux

Dr. Tomohiro Matsuda

Dr. Su-Hsin Chang

Conference Introduction

2020 3rd International Conference on Healthcare Service Management (ICHSM2020) will be held in Kamakura City, Japan during Aug 14-16, 2020. The mission of ICMHI/ICHSM is to foster and conduct collaborative, interdisciplinary research all over the world. We also provides the keynote address and several plenary invited speeches for discuss the most recent innovations, trends, and concerns, practical challenges encountered and the various solutions in the fields of healthcare service management.

We think a face-to-face dialogue for Infectious Diseases and Clinical professionals is needed now more than ever, as this is an important opportunity to share the latest findings and public health experiences on the current COVID-19 outbreak first-hand. All authors are welcome to submit the state-of-art research results of microbiology and public health, especially the researches of latest COVID-19. We will collect some excellent papers to our special issues and wave the conference registration fee as well.

Conference publications

- International Conference Proceedings (EI, SCOPUS)
- International Journal of Medical Sciences (SCI, IF2.333)
- Open Medicine (SCI, IF1.221)
- Intel. Journal of Enviro. Research & Public Health (SCI, IF2.468)
- Journal of Electronic Science and Technology (Scopus, INSPEC)
- Biomed Research International (SCI, IF2.197)
- IEEE Access (SCI, IF4.098)
- Frontiers in Bioengineering and Biotechnology (SCI, IF5.122)

Honorary Chairs

Prof. Chuen-Sheng Cheng, Yuan-Ze University, Taiwan
Prof. Chien-Ning Huang, President of Chung Shan Medical University Hospital, Taiwan
Prof. Michael Tian-Shyug Lee, Fu Jen Catholic University, Taiwan

Conference Chairs

Keynote speakers

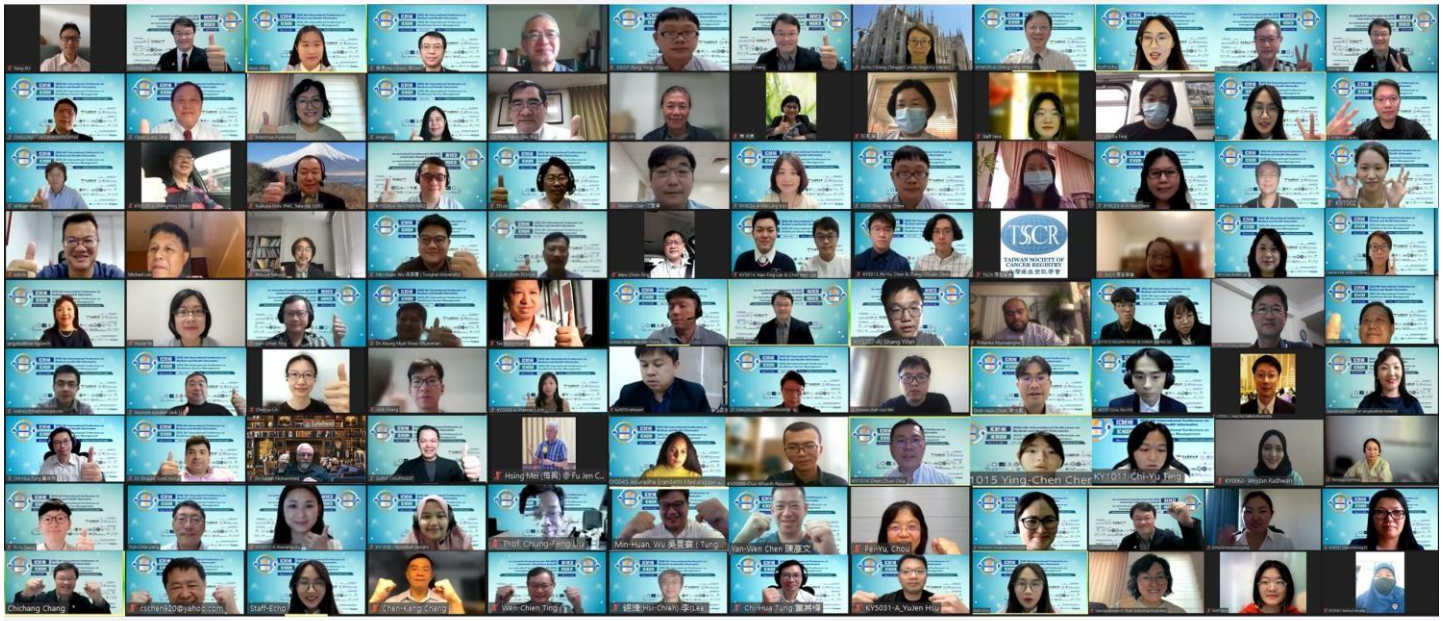
Prof. Dr. Reinhold Haux, President of International Medical Informatics Assoc. (IMIA), 2007-2010. Institute of Technology and Hannover Medical School, Germany

Prof. Dr. Tomohiro Matsuda, President of the International Assoc. of Cancer Registries (IACR), 2017-2019, WHO

Prof. Su-Hsin Chang School of Medicine, Washington University in St. Louis, United States

ICMHI 2021. ICHSM 2021

ICMHI2022 ICHSM2022



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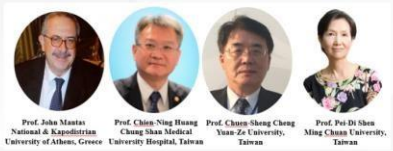

Prof. John Mantas
National & Kapodistrian University of Athens, Greece

Prof. Chien-Ning Huang
Chung Shan Medical University Hospital, Taiwan

Prof. Chuen-Sheng Cheng
Yuan-Ze University, Taiwan

Prof. Pei-Di Shen
Ming Chuan University, Taiwan

Prof. Quan Zou
University of Electronic Science and Technology, China

Prof. Michael Tian-Shyug Lee
Fu Jen Catholic University, Taiwan

Prof. Chuan Lee
Ming Chuan Global Education System, Taiwan

Prof. Reinhold Haux
University of Braunschweig – Institute of Technology, Germany

Conference Chairs

Prof. Ming Che Tsai
Chung-Shan Medical University, Taiwan

Prof. Taka-Aki Sato
University of Tsukuba, Japan

Prof. Chi-Chang Chang
Chung-Shan Medical University, Taiwan

Prof. Chien-Lung Chan
Yuan Ze University, Taiwan

Prof. Chin-Tsai Lin
Ming Chuan University, Taiwan

Prof. Tetsuya Sakurai
University of Tsukuba, Japan

Session Chairs

The Future of Digital Health in the Post-Pandemic
Keynote SPEAKER
Welcome to ICMHI 2023
7th International Conference on Medical and Health Informatics
May 12-14, 2023, Kyoto, Japan
AI For The Future in Healthcare
Artificial Intelligence (AI) is likely one of the technologies that will reshape the future of medicine and healthcare in an unimaginable way. As Steven Hawking put it - "Our future is a race between the growing power of technology and the wisdom with which we use it." How we understand, develop, and utilize AI will significantly determine what will happen to our healthcare ecosystem and the overall well-being of humanity.
Can AI be the silver bullet in healthcare?
Prof. Li, one of the top 2% scientists in the world, is a pioneer of artificial intelligence in medicine and translational biomedical informatics. He has devoted himself to evolving the next generation of AI in patient safety and prevention ("Earlier Medicine"). He has also been deeply involved in international collaborations for biomedical informatics development in Asia, America, Europe, and Africa.
He is currently President of the International Medical Informatics Association (IMIA) and previously served as Vice President of IMIA and President of the Asia-Pacific Association for Medical Informatics. In addition, he was elected as a fellow of the Australian College of Health Informatics in 2009, the American College of Medical Informatics in 2010, and the International Academy of Health Science Informatics in 2017.
Position
· Distinguished Professor, Taipei Medical University
· Dermatologist, Taipei Municipal Wanfang Hospital
· President, International Medical Informatics Association
Education
· Ph.D., Medical Informatics, University of Utah School of Medicine
· M.D., Medicine, Taipei Medical University
Yu-Chuan Jack Li
jackli.cc bit.ly/jackwiki
President International Medical Informatics Association
www.icmhi.org

2023 6th International Conference on Healthcare Service Management
ICHSM 2023
Kyoto, Japan | May 12-14, 2023
Welcome to ICHSM 2023
Theme: The Future of Digital Health in the Post-Pandemic
6th International Conference on Healthcare Service Management
May 12-14, 2023, Kyoto, Japan
KEYNOTE SPEAKER
Prof. Dr. Dilaver Tengilimoglu
• Head of Business, Atılım University, Turkiye
• Editor in Chief, International Journal of Health Management and Tourism (IJHMT)
CALL FOR PAPERS before Jan. 10, 2023
• Healthcare Management
• Health Policy and Practice
• Health Tourism Applications
• Big Data for Healthcare Practices
• Occupational Treatment
• Collaboration Technologies for Healthcare
• Survival Analysis & Health Hazard
• Personalized Health Promotion
• Psychiatric and Mental Health Nursing
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• Health Informatics Education
• Rehabilitation Nursing
• Medical Insurance Analysis
• Statistics & Quality of Medical Data
• Anxiety and Sleep Disorders
SUBMISSION
www.easychair.org/conferences/?conf=ichsm2023
PUBLICATIONS
• Conference Proceedings (EI, SCOPUS)
• Open Medicine(SCI, IF 2.199)
• Int. J. of Environmental Research and Public Health (SCI, IF 4.614)
• Healthcare (SCI, IF 3.160)
• Journal of Quality (EI, ACI, Scopus)
Conf. Website
www.ichsm.org

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2006
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KAOHSIUNG MEDICAL UNIVERSITY 1954
高雄醫學大學 Kaohsiung Medical University
JAH 仁愛醫療財團法人 JEN-AI HOSPITAL
慈濟大學
銘傳大學 MING CHUAN UNIVERSITY The First U.S.-Accredited University in Asia
元智大學 大數據與數位匯流創新中心 Innovation Center for Big Data and Digital Convergence
奇美醫療財團法人 奇美醫院 Chi Mei Medical Center

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Chichang Chang
Host-Alice
GDChen
CHALONG CHEEWAKRIANGKRAI
Chien-Lung Chan
Bolormaa Purevdorj
Angel Lu
CSMUH_ Ming-Che, Tsai
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Tsukuba Univ. PMC_Taka-Aki SATO
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TFLee
admin
Michael Lee
Tetsuya Sakurai
Min-Huan, Wu 吳旻寰 (Tunghai University)
LSLAI (from TCVGH)
Jargalsaikhan badarch
Xiucai Ye
Wen-Chien Ting
Dr. Kaung Myat Shwe (Myanmar)
Tse Hung Huang
vickrey@mail.ntut.edu.tw
Keynote speaker-Jack Li
Chen-ju Lin
Jack Chang
KY0009-A. Frances LAM
Chi-Hua Tung 董奇驊
Dr Shabbir Syed-Abdul
Dr. Sabah Mohammed
SUPAT CHUPRADIT
Hsing Mei (梅興) @ Fu Jen C...
Yi-Ju Tseng
Yun-Chia Liang
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Prof. Chung-Feng Liu

THANK YOU
TEŞEKKÜRLER
ありがとう
Arigatō Gozaimosu

ICMHI 2023

ICMHI
2024
2024 8th International Conference on
MEDICAL AND HEALTH INFORMATICS
THEME: BEYOND THE FUTURE HEALTHCARE DELIVERY
May 17-19, 2024
Yokohama, Japan
Organized by
中山醫學大學
Chung Shan Medical University
Supported by
TAIPEI TECH
Chi Mei Medical Center

2024 8th International

The First International Symposium on Medical Decision Science (ISMDS2023)

Aug 28 - 31, 2023, National Cancer Center of Mongolia, Ulaanbaatar, Mongolia

WELCOME TO ISMDS 2023

1st International Symposium on Medical Decision Science (ISMDS 2023) will be held in Ulaanbaatar during Aug 28-31, 2023.

THEME: **HEALTHCARE MANAGEMENT AND MEDICAL DECISION SCIENCE IN THE POST-PANDEMIC ERA**

The goal of the First International Symposium on Medical Decision Science (ISMDS) is to bring together theoretical and practical knowledge related to Medical Informatics and Healthcare Management and create a common forum for the exchange of ideas and for the future development of the field. The ISMDS 2023 will feature a series of keynotes, workshops and visits in addition to oral/poster presentations of original research.

THEMES &TOPICS

- Healthcare Management
- Health Policy and Practice
- Epidemiological Modeling
- Psychiatric Health Nursing
- Occupational Treatment
- E-commerce in Healthcare
- Health Tourism
- Health Economics
- Emerging Technologies in Healthcare
- Maternal and Child Healthcare
- Big Data for Healthcare Practices
- AI in Clinical Decision Support
- Health Education
- Medical Insurance

CONFERENCE PUBLICATIONS

- Conference Proceedings Journal of Data Analysis, ISSN1819-2343/ACI, EconLit
- Open Medicine (SCI, IF 2.199)
- Int. J. of Env. Res. and Pub Health (SCI, IF 3.390)
- Journal of Quality (EI, ACl, Scopus)

EasyChair

CALL FOR PAPERS

- Submission Deadline: May 20, 2023
- Notification: before May 31, 2023

Contact Ms. Betty Huang
secretary@mdsat.org.tw
Tel:+886983508612 (TW)

Welcome to ISMDS 2024

2nd International Symposium on Medical Decision Science (ISMDS 2024)

Chiang Mai, Thailand FEB 14-17, 2024

ISMDS2024 will be a hybrid symposium that will run in-person and virtually

Theme: Transforming Healthcare Management and Medical Decision Science

The goal of the Second International Symposium on Medical Decision Science (ISMDS) is to bring together theoretical and practical knowledge and create a common forum for the exchange of ideas and for the future development of the field. The ISMDS2024 will feature a series of keynotes, workshops and visits in addition to oral/poster presentations of original research.

TOPICS

- Healthcare Management
- Health Policy and Practice
- Epidemiological Modeling
- Psychiatric Health Nursing
- Occupational Treatment
- E-commerce in Healthcare
- Health Tourism
- Health Economics
- Emerging Technologies in Healthcare
- Maternal and Child Healthcare
- Big Data for Healthcare Practices
- AI in Clinical Decision Support
- Health Education
- Medical Insurance
- Biomedicine
- Machine Learning
- Hospital Management
- Survival Analysis

CONFERENCE PUBLICATIONS

- Conference Proceedings
  Journal of Data Analysis, ISSN1819-2343/ACI, EconLit
- Open Medicine (SCI, IF 2.199)
- Decision Science in Medicine (DSIM)

CALL FOR PAPERS

- Submission Deadline: Oct 27, 2023
- Notification: before Oct 31, 2023

EasyChair

Contact Ms. Betty Huang
secretary@mdsat.org.tw Tel:+886979663982 (TW)

MNUMS
The 2nd International Symposium
on Medical Decision Science
(ISMDS 2024)
Second International Symposium
on Medical Decision Science
(ISMDS 2024)

ISMDS 2024
2nd International Symposium on
Medical Decision Science 2024
MDS
Medical Decision
Science Association of
Taiwan(MDSAT)
FACULTY OF MEDICINE
CHIANG MAI UNIVERSITY
Faculty of Medicine,
Chiang Mai University

Welcome To ISMDS2025

3rd International Symposium on Medical Decision Science (ISMDS 2025)

The goal of the Third International Symposium on Medical Decision Science (ISMDS) is to bring together theoretical and practical knowledge and create a common forum for the exchange of ideas and for the future development of the field. The ISMDS2025 will feature a series of keynotes, workshops and visits in addition to oral/poster presentations of original research.

TOPICS

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CONFERENCE PUBLICATIONS

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CALL FOR PAPERS

- Submission Deadline: Aug 31, 2025
- Notification: before Sep 15, 2025

EasyChair

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HEALTH BIG DATA, ANALYTICS & ARTIFICIAL INTELLIGENCE FORUM (HBAAI) 健康大數據分析人工智慧論壇

#HBAAI2017 with Japan 2017.12.28, Chung Shan Medical University, Taiwan

- Eigen-analysis Engine for Large-scale Simulation and Data Analysis *Prof. Sakurai, University of Tsukuba, Japan*
- Integrating Big Data, Analytics & Artificial Intelligence in CSMU Hospital *Prof. Vice President Chih-Jen Tseng, CSMU Hospital, Taiwan*
- Natural Computing & Bioinformatics Lab. *Prof. Yen-Wei Chu, NCHU, Taiwan*
- Efficient biometric authenticated key agreements based on extended chaotic maps for telecare medicine information systems
  Prof. Tian-Fu Lee, Tzu Chi University, Taiwan
- Unsupervised Feature Selection for Microarray Gene Expression Data Based on Discriminative Structure Learning
  Prof. Xiucai Ye, University of Tsukuba, Japan
- Integration of data mining classification techniques and ensemble learning to identify risk factors and diagnosis ovarian cancer recurrence
  Prof. Chi-Jie Lu, Fu Jen Catholic University, Taiwan

#HBAAI2018 with Thailand 2018.6.6, Chung Shan Medical University Taiwan

- Predicting Second Primary Cancer and Identifying Risk Factors for Breast Cancer Patients
  Prof. Ssu-Han Chen, Ming Chi University of Technology, Taiwan
- 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 Hsing University, Taiwan*
- How to Integrate the ICT with Healthcare Administration in Research?
  Prof. Hao-Yun Kao, Kaohsiung Medical University, Taiwan
- Integrative Medicine and Complementary Therapies in Lung Cancer
  Dr. Tse-Hung Huang, Chang Gung Memorial Hospital, Taiwan
- Clinical Aspects of Recurrence Analysis in Endometrial Cancer
  Dr. Chalong Cheewakriangkrai, Chiang Mai University, Thailand

#HBAAI2019 with Thailand 2019.1.5, Chiang Mai University, Thailand

- How to begin and apply medical informatics to clinical practice & research
  Prof Chi-Chang Chang, CSMU, Taiwan
- Gynecologic cancer aspects and situation in Thailand
  Prof. Jatupo*l Srisomboon, M.D., Division of Gynecologic Oncology, Chiang Mai University, Thailand; Chairman of Thai Gynecologic Cancer Society*
- Current and future trends in gynecologic cancer research
  Assoc. Prof. Prapaporn Suprasert, M.D., Division of Gynecologic Oncology; Head of Department of Obstetrics & Gynecology, Chiang Mai University, Thailand
- Faculty operation center and hospital informatics for administrative management
  Asst. Prof. Krit Khwanngern, M.D., Associate dean for Information Technology Service Center (ITSC), Department of Surgery, Chiang Mai University, Thailand
- Research collaboration and endometrial cancer informatics
  Asst. Prof. Chalong Cheewakriangkrai, M.D, Division of Gynecologic Oncology, Chiang Mai University, Thailand
- Machine Learning Applications for Recurrent Endometrial Cancer in Taiwan and Thailand: An Interdisciplinary Research (IDR)
  Prof. Chi-Jie Lu, Chien Hsin University of Science and Technology, Taiwan
- Developing an Integrated Clinical Decision-making Scheme (ICDS) for Predicting SPCs in Women with Endometrial Cancer: A Retrospective Analysis in Taiwan and Thailand
  Prof. Ssu-Han Chen, Ming Chi University of Technology, Taiwan

#HBAAI2019 with Japan (student) 2019.6.25, University of Tsukuba, Japan

Medical robot development using deep learning.

Su-Jung Wu, Chung Shan medical university, Taiwan

Design of Assistant Long-Term Care System

Li-Chieh Chen, Ming Chuan University, Taiwan

- Design of Assisted Visually Impaired System *Yuan-Rong Li, Ming Chuan University, Taiwan*
- Enhanced Lightweight Dynamic Pseudonym Identity Based Authentication and Key Agreement Scheme Using Wireless Sensor Networks for Agriculture Monitoring *Meriske Chen, Tzu Chi University, Taiwan*

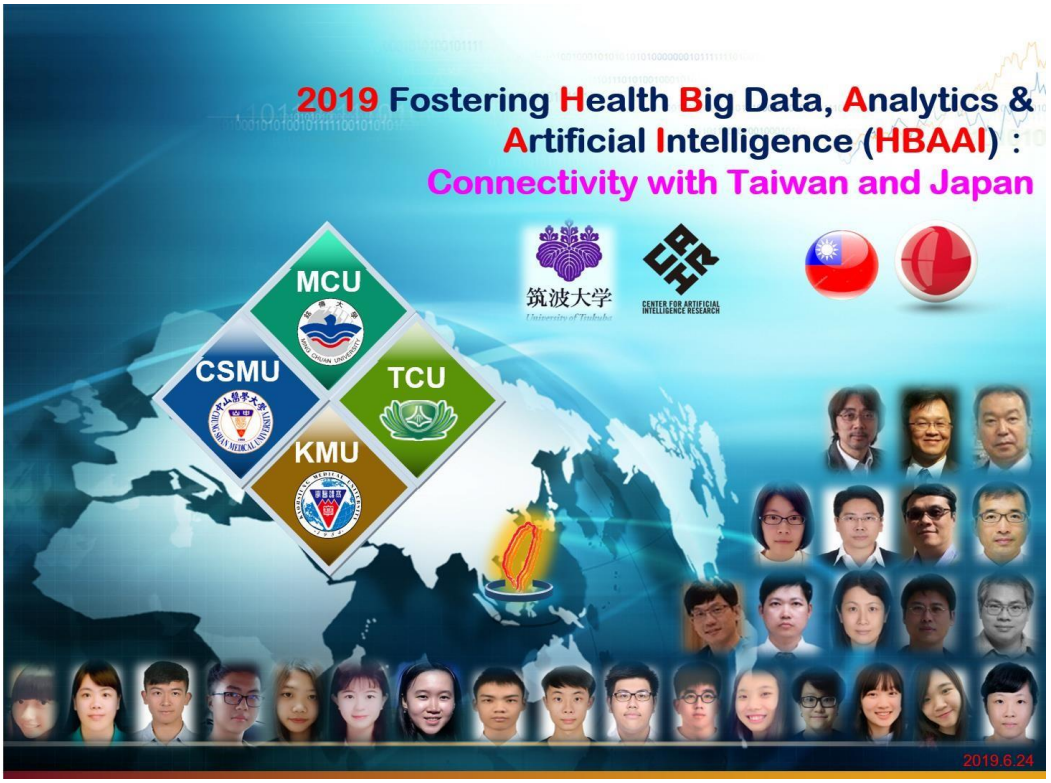
HBAAI

HBAAI Taiwan & Japan

June 24-27, 2019
University of Tsukuba, Japan

筑波大学
University of Tsukuba

CENTER FOR ARTIFICIAL INTELLIGENCE RESEARCH



#HBAAI2020 with Formosa 2020.7.30, Chung Shan Medical University, Taiwan

- Forecasting Influenza Outbreak using Decision Tree Scheme
  Prof. Chi-Jie Lu, Fu Jen Catholic University
- Augmented Intelligence for Precision Cancer Treatment
  Prof. Wei-Chih Shen, Chung Shan Medical University
- Class-specific Antibody Prediction for Linear B-cell Epitopes
  Prof. Yen-Wei Chu, National Chung Hsing University
- Lightweight Authentication/Key Agreement for Medical IOT
  Prof. Tian-Fu Lee, Tzu Chi University, Taiwan
- The Data Connection between Research and HIS
  Director, Computer and Communications Center of Taichung Veterans General Hospital
- Development & Construction of Therapeutic Product Design
  Prof. Chi-Hung Lo, Tunghai University
- Possible role of exosomes in ocular disease
  Prof. Dr. Min-Yen Hsu, Chung Shan Medical University Hospital

#HBAAI2020 with TCM 2020.8.26, Chung Shan Medical University, Taiwan

- Traditional Chinese Medicine (TCM) on a Smartphone
  Prof. Kun-Chan LAN, National Cheng Kung University
- Traditional Chinese Medicine (TCM) Meets Technology -A Pulse Diagnosis Pen Combining with TCM Diagnostic Analysis
  Prof. Tsu-Wang SHENG, Feng Chia University
- A Fuzzy Syndrome Differentiation System for Traditional Chinese Medicine
  Prof. Nai-Wei LIN, National Chung Cheng University
- An Astragalus-based Chinese herbal medicine inhibits cancer stem cell growth and improves the efficacy of cisplatin-based chemotherapy in non-small cell lung cancer
  Prof. Tse-Hung HUANG, Chang Gung Memorial Hospital
- Survival Analysis of Combined Traditional Chinese and Western Medicine Therapy for Colorectal Cancer
  Prof. Hung-Pin CHIU, Nanhua University

#HBAAI2020 with SPC 2020.9.4, Fu Jen Catholic University, Taiwan

- Evidence-based Prevention Practice in SPCs and Recurrence: Retro- and Prospect in Asia Pacific
  Prof. Chi-Chang CHANG, Chung Shan Medical University
- Developing a Novel Machine Learning-Based Classification Scheme for Predicting SPCs in Colorectal Cancer Survivors
  Prof. Chi-Jie LU , Fu Jen Catholic University
- Developing a Novel Machine Learning-based Classification Scheme for Predicting SPCs in Breast Cancer Survivors
  Prof. Ssu-Han CHEN, Ming-Chi University of Technology
- Introduction and Application of Taiwan Cancer Registry Database
  Prof. Chun-Ju CHIANG, Taiwan Cancer Registry, Health Promotion Administration, Health Promotion Administration Annual

2020第八屆健康大數據分析人工智慧論壇
Eighth Fostering Health Big Data, Analytics & Artificial Intelligence Forum
HBAAI with Tzu Chi University
Date: 2020/10/29 14:50-17:30
Site: H305
Host: Tzu Chi University
中山醫學大學附設醫院
Chung Shan Medical University Hospital
佛教慈濟醫療財團法人
慈濟醫院

2020第九屆健康大數據分析人工智慧論壇
Ninth Fostering Health Big Data, Analytics & Artificial Intelligence Forum
HBAAI with Quemoy University
Date: 2020/11/11 11:00-15:00
Site: 301 Meeting Room, College of Science & Engineering
Host: National Quemoy University
中山醫學大學附設醫院
Chung Shan Medical University Hospital
國立金門大學
NATIONAL QUEMOY UNIVERSITY

2020第十屆健康大數據分析人工智慧論壇
Tenth Fostering Health Big Data, Analytics & Artificial Intelligence Forum
HBAAI with National Chung Cheng University
Date: 2020/11/19 14:00-18:30
Site: 105 Meeting Room
Host: National Chung Cheng University
中山醫學大學附設醫院
Chung Shan Medical University Hospital
奇美醫療財團法人 奇美醫院
Chi Mei Medical Center
Daline
嘉義長庚紀念醫院
Chang Gung Memorial Hospital,Chiayi
HIE LAB

2020第十一屆健康大數據分析人工智慧論壇
Eleventh Fostering Health Big Data, Analytics & Artificial Intelligence Forum
HBAAI with FCU
Date: 2020/12/10 14:00-17:40
Site: Feng Chia University
Host: 418 Meeting Room
中山醫學大學附設醫院
Chung Shan Medical University Hospital
逢甲大學
Feng Chia University
THE UNIVERSITY OF WAIKATO
Te Whare Wānanga o Waikato

2020第十二屆健康大數據分析人工智慧論壇
Twelfth Fostering Health Big Data, Analytics & Artificial Intelligence Forum
HBAAI with KMU
Date: 2020/12/18 13:00-17:30
Site: 勵學大樓3樓半視聽中心
Host: K.M.U Center for Big Data Research
林口長庚紀念醫院
Chang Gung Memorial Hospital, Linkou
中山醫學大學附設醫院
Chung Shan Medical University Hospital
NKUST

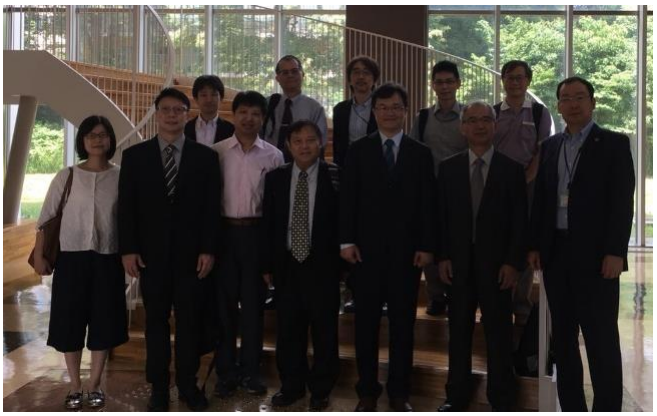
2020第十三屆健康大數據分析人工智慧論壇
Thirteenth Fostering Health Big Data, Analytics & Artificial Intelligence Forum
HBAAI with Jen-Ai Hospital
Date: 2020/12/19 14:00-17:00
Site: Meeting Room 10 F
Host: Jen-Ai Hospital
中山醫學大學附設醫院
Chung Shan Medical University Hospital
JAH
AllBio
嘉義長庚紀念醫院
Chang Gung Memorial Hospital,Chiayi
NQU

STUDY VISIT 國外移地研究

1st Study Visit CMU, Dec 8-11th,2017

2nd Study Visit CMU Jan 4-7th, 2019

Chiang Mai University visited Chung Shan Medical University Sep 27 2019



Study Visit at Research and Development Center for Precision Medicine (PMC)in University of Tsukuba, Japan. June 7 2018

Study Visit at Center for Innovative Medicine and Engineering (CIME)in University of Tsukuba, Japan. June 7 2018

Study Visit at Center for Innovative Medicine and Engineering (CIME)in University of Tsukuba, Japan (Taiwan Medical Informatic Team) June 27 2019

1st Study Visit in Peking University, China. Jan 11-13th, 2019

2nd Study Visit in Peking University, China. Jan 11-15th, 2020

MEMORANDUM OF UNDERSTANDING 合作備忘錄簽訂

Between School of Medical Informatics, CSMU and Center For Artificial Intelligence Research (C-AIR), University of Tsukuba (2019.7.1)

Between Medicine School, CSMU and Medicine School, Chiang Mai University (2019.9.6)

MDSAT

Medical Decision Science Association of Taiwan

Medical Decision Science Association of Taiwan
• Medical Decision • Sustainable • Embracing Global Health

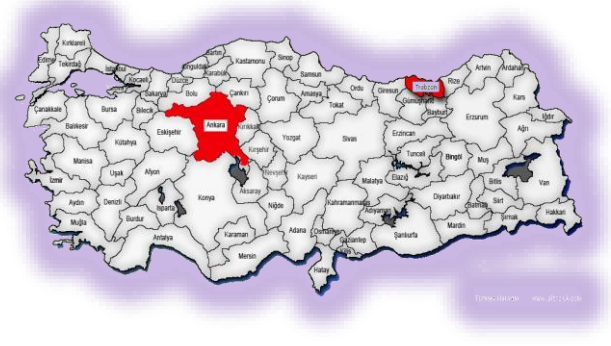
Vision

Our vision is to create a better medical decision making by connecting people to real world.

Mission

Our mission is to foster substantive international cooperation and to embrace global health.

Reflections Towards the Future of Multidisciplinary Research



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Atilim University, Türkiye

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Ming-Che Tsai, MD. PhD
Chung Shan Medical University Hospital, Taiwan

Michael Tian-Shyug Lee, PhD
Fu Jen Catholic University, Taiwan

Gin-Den Chen, MD. PhD
Chung-Shan Medical University Hospital, Taiwan

Chuen-Sheng Cheng, PhD
Yuan Ze University, Taiwan

Emilia Zankina, PhD
Temple University Rome, Italy

Mohammad Ali Jalali Far, MD. PhD
Ahvaz Jundishapur university of medical sciences, Iran

William Yu-Chung Wang, PhD
University of Waikato, New Zealand

Ramazan Erdem, PhD
Suleyman Demirel University, Türkiye

Sedat Bostan, PhD
Karadeniz Technical University, Türkiye

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Chiang Mai University, Thailand

Bolormaa Purevdorj, MD
Population Health Research Center, Mongolia

Supat Chupradit, MD. PhD
Chiang Mai University, Thailand

Chien-Lung Chan, PhD
Yuan Ze University, Taiwan

Yang Xu, PhD
Peking University, China

JOINT EXECUTIVE BOARD ON MEDICAL INFORMATICS IN TAIWAN (JEBMI)

台灣醫學資訊系所主管聯席會議

台灣醫學資訊學系所主管聯席會議
The Joint Executive Board on Medical Informatics in Taiwan (JEBMI)

本會創立於2018年

本主管聯席會議的 宗旨

#提昇國內醫療資訊教育品質

#掌握醫療資訊技術專業發展及產業需求趨勢

秉持前瞻與精進的 目標

#整合台灣醫療資訊實務

#課程設計與師資交流

持續年度聯席會議 使命

#培育具國際宏觀視野

#創新靈活及應變能力

#跨領域醫療資訊與管理人才

共同攜手團結精進：教學研究、行政服務與國際交流

First JEBMI in CSMU 2018.10.11

Second JEBMI in KMU 2019.8.29

Third JEBMI in CSMU 2020.7.2

Fourth JEBMI in Virtual Meeting 2021.10.1