THE 2023 INTERNATIONAL CONFERENCE ON MEDICAL DESIGN ONE DIGITAL HEALTH: FUTURE PERSPECTIVES AND CHALLENGES VENUE: CHANG GUNG UNIVERSITY (TAOYUAN, TAIWAN)

DATE: 2023/11/24 ~ 2023/11/27

Full Schedule

MD2023 Conference				
Time	Торіс	Place		
25 November 2023 (Saturday)				
09:30-10:00	Registration	Shengen Lecture Hall 2nd Floor, Management Building		
10:00-12:00	Poster Installation and Exhibition	Shengen Lecture Hall 2nd Floor, Management Building		
11:00-12:00	MDA Members of General Assembly	Room2001 2nd Floor, Management Building		
12:00-14:00	Lunch	Room2004 2nd Floor, Management Building		
12:40-13:00	Registration	Shengen Lecture Hall 2nd Floor, Management Building		
13:00-13:10	Opening and Welcome Host: Professor Chien-Lung Hsu Vice President of the Medical Design Association (MDA), Professor at the Department of Information Management & Graduate Institute of Business and Management, Chang Gung University	Shengen Lecture Hall 2nd Floor, Management Building		
13:10-14:10	Invited Speech (1): Self-supporting care and AI technology application development Invited Speaker: Mr. Chin-Li Lin, Chief Executive Officer of Changtai Health Care Group Host: Professor Chien-Lung Hsu Vice President of the Medical Design Association (MDA), Professor at the Department of Information Management & Graduate Institute of Business and Management, Chang Gung University	Shengen Lecture Hall 2nd Floor, Management Building		
14:10-15:10	Invited Speech (2): Innovations in Trusted Cloud Security Invited Speaker:	Shengen Lecture Hall 2nd Floor, Management Building		

	Tsung-Min Kuo, Ph.D, Senior Engineer & Project Manager, Chunghwa Telecom Co., Ltd. Host: Professor Chien-Lung Hsu, Vice President of the Medical Design Association (MDA), Professor at the Department of Information Management & Graduate Institute of Business and Management, Chang Gung University	
15:10-15:30	Tea Break	Room2004 2nd Floor, Management Building
15:30-16:30	Invited Speech (3): Generative AI on Smart Healthcare Application (生成式 AI 於智慧醫療應用) Invited Speaker: Mr. James Liu, Client Executive of Microsoft Taiwan Corporation Host: Professor Chien-Lung Hsu, Vice President of the Medical Design Association (MDA), Professor at the Department of Information Management & Graduate Institute of Business and Management, Chang Gung University	Shengen Lecture Hall 2nd Floor, Management Building
16:30-17:00	Panel discussion: Mr. Chin-Li Lin, Chief Executive Officer of Changtai Health Care Group/ Tsung-Min Kuo, PhD, Senior Engineer & Project Manager, Chunghwa Telecom Co., Ltd. Mr. James Liu, Client Executive of Microsoft Taiwan Corporation Host: Professor Chien-Lung Hsu, Vice President of the Medical Design Association (MDA), Professor at the Department of Information Management & Graduate Institute of Business and Management, Chang Gung University	Shengen Lecture Hall 2nd Floor, Management Building
18:00	Gala Dinner	Fullon Hotel A8
26 Novemb	per 2023 (Sunday)	
8:30-10:00	MD2023 Registration	Shengen Lecture Hall 2nd Floor, Management Building
9:00-9:10	Opening and Welcome Host: Professor Ming-Je Tang, President of Chang Gung University Professor Kevin C. Tseng (MD2023 General Chair), President of the Medical Design Association (MDA)	Shengen Lecture Hall 2nd Floor, Management Building
9:10-10:10	Keynote Session (1): Health Information Technologies to Fight Against Emerging & Re-emerging Diseases in the future: Lesson learned from COVID-19 Pandemic Keynote Speaker: Emeritus Professor Suwat Chariyalertsak, MD., Dr.PH. Dean, Faculty of Public Health, Chiang Mai University (Thailand) Host: Professor Kevin C. Tseng (MD2023 General Chair), President of the Medical Design Association (MDA)	Shengen Lecture Hall 2nd Floor, Management Building

10:10-11:10	Keynote Session (2): Promoting innovations in medical education and digital healthcare delivery Keynote Speaker: Professor Henry L. Lew, MD, PhD Director of Rehabilitation Medicine Education Office of Medical Education John A. Burns School of Medicine, University of Hawaii at Manoa (United States) Host: Professor Alice MK. Wong, Superintendent at Chang Gung Memorial Hospital	Shengen Lecture Hall 2nd Floor, Management Building
11:10-11:30	Tea Break	Room2004 2nd Floor, Management Building
11:30-12:30	Keynote Session (3): Application of Technologies for Neurorehabilitation Keynote Speaker: Assoc. Professor Won-Seok Kim, MD, PhD Rehabilitation Medicine at the Seoul National University Bundang Hospital SNUBH Rehabilitation Medicine, Seoul National University College of Medicine, South Korea (Korea) Host: Jian-Jia Huang PhD Chief Executive Officer at Rehabotics Medical Technology Corporation Asst. Professor at MSc Program in Innovation for Smart Medicine, Chang Gung University	Shengen Lecture Hall 2nd Floor, Management Building
12:30-13:30	Lunch	Room2004 2nd Floor, Management Building
12:30-13:30	Appointment Scheduling for Consultation Emeritus Professor Suwat Chariyalertsak (Thailand) Professor Henry L. Lew (USA) Associate Professor Won-Seok Kim (Korean) Assistant Professor Kannikar Intawong (Thailand) Host: Professor Ming-Je Tang, President of Chang Gung University Professor Chin-Horng Chan, Vice Dean of the College of Management	The Faculty Lounge 2nd Floor, Management Building
13:30-14:30	Invited Speech: Metaverse Development for Intelligent Healthcare Invited Speaker: Asst. Professor Dr. Kannikar Intawong Faculty of Public Health, Chiang Mai University (Thailand) Host: Assoc. Professor Sherry Yueh-Hsia Chiu Head of Health Care Management, Chang Gung University	Shengen Lecture Hall 2nd Floor, Management Building
13:30-15:00	Parallel Session (1): Biomedical Design I Session Chair: Jian-Jia Huang ID29: Interhemispheric Coherence in Sensorimotor Cortical Areas Induced by Multiple Interventions in Healthy Participants Kuo-Cheng Liu, Jen-Wen Hung, Yu-Cheng Pei, Jian-Jia Huang	Room1001 1st Floor, Management Building

ID20: Tactile Acuity Assessment Using Extended JVP Domes in Patients with Diabetes Mellitu Lei-Chi Lin, Wen-Hsin Mai, Jian-Jia Huang, Yu-Cheng Pei, Bao-Luen ID12: Video-Based Stroke Gait Recognition and Exoskeleton Robot **Rehabilitation Parameter Prediction** Jhih-Jie Liou, Shih-Lin Wu, Jian-Jia Huang, Shih-Chieh Chang, Yu-Cheng ID21: Correlation of Tactile Acuity and Nerve Conduction in Diabetic Patients: a pilot study Wen-Hsin Mai, Lei-Chi Lin, Jian-Jia Huang, Yu-Cheng Pei, Bao-Luen ID22: Machine Learning Model in Post-stoke Ambulatory Function Prediction Shih-Chieh Chang, Jian-Jia Huang, Yu-Cheng Pei Room1002 Parallel Session (2): Digital Health Technologies and Usability Session Chair: Wann-Yun Shieh 1st Floor, Management Building ID18: Application of a Usability-Based Medical Device Development **Support System: A Systematic Review** An-Yu Cheng, Kevin C. Tseng ID33: System Approach to Public Healthcare Services Based on Service **Design Concept: A Systematic Review** Li-Yu Tseng, Kevin C Tseng ID41: Specifications and Effects of Wearable Devices for the Rehabilitation of Orthopedic Postoperative: A Systematic Review and Metaanalysis Hui-Ying Hsu, Kevin C. Tseng ID49: Development of an Affordable and Non-Invasive Laryngeal **Microphone Sensor Interface for BIOPAC Systems** Mohammad Anwar Khan, Wann-Yun Shieh, Chin-Man Wang ID61: Systematic Review and Meta-analysis of EMG and EEG Biofeedback Interventions in Upper Extremity Rehabilitation Robots for Poststroke Patients Chen-Kai Chiu, Kevin C. Tseng Parallel Session (3): Cognitive Health and Aging Technologies Room1003 Session Chair: Yueh-Peng Chen 1st Floor, Management Building ID62: The Impact of Emerging Technology on Physical Exercise and **Cognitive Training in Older Adults with Mild Cognitive Impairment:** A Systematic Review and Meta-Analysis Chia-Ching Chang, Shih-Lin Wu, Tzyh-Chyang Chang, Tsai-Hsuan Tsai ID46: Enhancing Cognitive Health through the Brain Gym Coaching **Platform** Ting-Wei Chang, Chia-Ching Chang, Shih-Lin Wu, Tsai-Hsuan Tsai, Yueh-Peng Chen ID65: Technological Empowerment for the Aging Workforce in Elderly **Care Programs: A Systematic Review and Meta-Analysis** Hsin-Yu Lo, Shih-Lin Wu, Chien-Lung Hsu, Tsai-Hsuan Tsai ID66: Benefits of Conversational AI and Chatbots in Integrated Care

Management in Retirement Villages: A Systematic Review and

Dai-Rong Wu, Shih-Lin Wu, Chien-Lung Hsu, Tsai-Hsuan Tsai

Meta-Analysis

	ID63: Dcare Mobile Clinic: An Al-Driven Chatbot Platform for Transforming Personalized Health Management and Telecare Services for Patients with Chronic Diseases Thi Phuong Thanh-Le, Wei-Hua Jen, Shih-Lin Wu, Tsai-Hsuan Tsai	
	Parallel Session (4): Advanced Technologies in Patient Safety Session Chair: Chien-Lung Hsu	Room1005 1st Floor, Management Building
		ist Floor, Management Building
	ID17: Continuing Care for Stroke Patients by i-SMART system	
	Chien-Lung Hsu, Yi-Ching Chen, Yu-Li LinYu-Li, Chia-Yi Lo, Chi-Wei Hsu	
	ID19:-A Knowledge Management Platform with Attribute-Based	
	Homomorphic Encryption for Regulation and Compliance of	
	Medical Device Network Security	
	Chien-Lung Hsu, Yu-Ting Chang, Tzu-Yin Hsiao, Fu-Sung Lo	
	ID25:-A Public Key System with Forward Secrecy for Hierarchical Internet	
	of Medical Things (H-IoMT) in a Smart Hospital	
	Chien-Lung Hsu, Min-Hui Ting, Tien-Wei Li, Tzu-Wei Chiang, Tzu-Liang Hsu	
	ID52: An External Plugin System for Automated Medical Image Acquisition and Recognition	
	Chun-Yang Lin, Mu-Chen Hsieh, Tzuo-Yau Fan, Shih-Lin Wu, Yueh-Peng Chen	
	ID36: A Feasibility Study on the Use of Smart Devices by the Public to	
	Prevent Hypertension	
	Yu-Ting Hou, Kevin C. Tseng	
	ID68: Secure FHIR-based Medical Records Exchange Processes with	
	Attribute-Based Encryption Mechanisms for Taiwan Cloud	
	Telemedicine Consultation	
	Chien-Lung Hsu, Tzu-Liang Hsu, Ting-Chen Pai	
15:00-15:30	Tea Break	Room1004 1st Floor, Management Building
	Parallel Session (5): Biomedical Design II	Room1001
	Session Chair: Yu-Cheng Pei	1st Floor, Management Building
	ID03: Diagnostic Accuracy of Deep Learning for Prediction of	
	Osteoporosis Using Plain X-rays: A Meta-Analysis	
	Tzu-Yun Yen, Chan-Hsien Ho, Yu-Cheng Pei, Yu-Cheng Pei	
	ID30: Application of An Explainable HarDNet-based Deep Learning Model	
	for Osteoporosis Screening and Bone Mineral Density Inference	
	Using Hand Radiographs	
15:30-17:00	Chan-Shien Ho, Yu-Cheng Pei, Yueh-Peng Chen, Szu-Yi Chang	
	ID35: An Advanced Medical Concept for Enhanced Procedures in	
	Colonoscopy	
	Yu-Chi Chen, Wei-Cheng Chen, Yan-Ru Chen, Shih-Wei-Chen Tseng,	
	Ming-Yao Chen, Jian-Jia Huang, Yeong-Hwa Chang	
	ID45: Assessment of Ventriculomegaly Utilizing Deep Learning	
	Approaches through Neonatal Cranial Ultrasonography	
	Yueh-Peng Chen, Cheng-Yen Kuo, Hsiang-Yu Wu, Tzuo-Yau Fan, Chang- Fu Kuo	

	ID43: A Literature Review of Current Technologies in the Field of Depression in Alzheimer's Disease Duru Acar, Keving C. Tseng	
	Parallel Session (6): Innovations in Medical Diagnosis and Treatment Technologies	Room1002 1st Floor, Management Building
	Session Chair: Meng-Huang Wu	
	ID42: Literature Review of Advancements in Medical Design and	
	Technology for Early Diagnosis and Treatment of Oral Cancer	
	Magie Vania Halim, Kevin C Tseng	
	ID44: The New Solution for Visual Clarity During Bleeding in Spine	
	Endoscopic Surgery	
	Meng-Huang Wu, Jowy Tani, Cheng-Chun Chang, Ching-Yu Lee, Tsung- Jen Huang, Yi-Hung Huang, Jin-Sung Kim	
	ID48: The Current Advancements and Innovations in Endoscopic Lumbar	
	Interbody Fusion	
	Meng-Huang Wu	
	ID50: Suture Embedding Acupuncture Versus Traditional Acupuncture for	
	the Treatment of Chronic Low Back Pain: A Randomized Controlled	
	Trial	
	Po-Hsuan Su, Yen-Kuang Lin, Shan-Hong Wu, Ching-Yu Lee, Tsung-Jen	
	Huang, Meng-Huang Wu	
	ID55: Feasibility Study on the Prospects and Challenges of Smart	
	Technology in Healthcare	
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	Yuan-Chien Chen, Kevin C. Tseng	
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10:30-12:00 Visits & Campus Tours at Chang Gung University Chang Gung University