Program at a glance

	Wednesday, 23 August		
	Session 1 (Room：Y201)	Session 2 (Room：Y202)	Session 3 (Room：Y208)
13:30 ~ 15:00	ID 14	ID 17	ID 39
	ID 15	ID 72	ID 53
	ID 26	ID 20	ID 28
	ID 36	ID 38	ID 9
	ID 48		ID 51
15:00 ~ 15:30	Tea Break		
15:30 ~ 17:00	ID 58	ID 42	ID 5
	ID 8	ID 25	ID 12
	ID 10	ID 41	ID 59
	ID 11	ID 45	ID 3
	ID 27	ID 73	

	Thursday, 24 August		
	Session 1 (Room：Y201)	Session 2 (Room：Y202)	Session 3 (Room：Y208)
10:00 ~ 12:00	ID 61	ID 35	ID 77
	ID 67	ID 24	ID 52
	ID 46	ID 30	ID 32
	ID 40	ID 37	ID 66
	ID 13	ID 49	ID 54

	Posters (Room：Y203~Y206)
8/24 10:00~12:00	ID 4,22,23,29,34,43,44,55,63,69,71,76,78
8/24 13:30~15:30	ID 2,6,7,16,18,19,47,60,62,64,68,74

Technical Program

Oral Session

Wednesday, 23 August		
Session 1 (Room：Y201)		
	Session Chair：*Tien-Lung Sun*	
13:30 ~ 15:00	ID 14	Data analysis of feature extraction for characterizing exercise performance by motion sensor
		Shih-Hai Chen, Chi-Han Wu, Tien-Lung Sun
	ID 15	Data analysis of exercise performance in fitting equipment by motion sensor
		Shih-Hai Chen, Chi-Han Wu, Tien-Lung Sun
	ID 26	Analysis of motion-sensor data by circuit training for a health promotion campaign
		Chia-Hsuan Lee, Chen-Yi Lee, Tien-Lung Sun
	ID 36	Joint angle measurement by stretchable strain sensor
		Hiroyuki Nakamoto, Tokiya Yamaji, Ichiro Hirata, Hideo Ootaka, Futoshi Kobayashi
	ID 48	Inertial sensor enabled tug data collection for elderly balance assessment
		Tien-Lung Sun, Chia-Hsuan Lee, Gustavo Adolfo Miranda Salgado, Shih-Hai Chen, Chi-Han Wu, Da-Ming Hung, Chien-Hua Huang, Chun Pei
15:00 ~ 15:30	Tea Break	
	Session Chair：*Ichiro Hirata*	
15:30 ~ 17:00	ID 58	An application of human factors approaches to reduce MSD risks for the quartz oscillator inspection task
		Cheng-Shih Tasi, Shih-Yu Chung, Ray F. Lin
	ID 8	Development and assessment of an aid for reducing injury risk of neck among computer workers
		Hsieh-Ching Chen, Tzu-Yun Hung, Yung-Ping Liu
	ID 10	Understanding factors that affect the evaluation of user satisfaction
		Sayoko Doi, Toshihisa Doi, Toshiki Yamaoka
	ID 11	A pressure distribution measurement system for product development
		Ichiro Hirata, Keiji Ootani, Yasunori Goto
	ID 27	An evaluation model of web quality service based on cloud model and grey relational analysis
		Ting-Cheng Chang, Hui Wang, Chuen-Jiuan Jane

Wednesday, 23 August		
Session 2(Room：Y202)		
13:30 ~ 15:00		Session Chair：*Peng-Cheng Sung*
	ID 17	The effects of pressing frequency and flashing pattern of indicator lamps on workloads for simulated push-button operation
		Peng-Cheng Sung, Jia-Feng Tsai, Shu-Zon Lou, Cheng-Lung Lee, Huey-Long Chen
	ID 72	Effects of input devices on task performance for smartphone operating
		Cheng-Lung Lee, Chun-Han Huang, Shih-Yi Lu, Peng-Cheng Sung, Yi-Tsong Pan
	ID 20	Behavioral intention to join active aging learning center
		Mei-Yu Ku, Ching-Ter Chang, Pei-Yin Shen, Yu-Ching Chang Chien
	ID 38	The study of female maximum acceptable force for thumb press insertion task with middle and high duty cycles in Taiwan
		Chia-Ying Lin, Ei-Wen Lo, Chih-Yong Chen, Liwen Liu
15:00 ~ 15:30	Tea Break	
15:30 ~ 17:00		Session Chair：*Toshiki Yamaoka*
	ID 42	The extraction of user requirements using Stories
		Ai Murata, Toshiki Yamaoka
	ID 25	A new idea creation method based on constraints
		Toshiki Yamaoka
	ID 41	Suggestion of the time model defined Temporal model in interface design
		Yukari Waki, Toshiki Yamaoka
	ID 45	A proposal of service design considering a sale of Gekkeikan's Sake
		Saori Nishino, Toshiki Yamaoka
	ID 73	Modeling users' data traces in ambient assisted living environments
		Vahid Ghasemi, Ali A. Pouyan

		Wednesday, 23 August
		Session 3(Room：Y208)
13:30 ~ 15:00		Session Chair：*Cheng-Li Liu*
	ID 39	The effect of working posture and gender on grip strength and endurance time
		Yi-Chen Chiu, Ei-Wen Lo, Chih-Yong Chen, Liwen Liu
	ID 53	The static and dynamic coefficient of friction analysis for three different kinds of industrial safety footwear
		Ching-Chung Chen, Zhi-Xuan Chen, Chih-Lin Chang, Fang-Ling Lin
	ID 28	Effects of chair rise strategies on joint loads
		Han-Xiong Gao, Yu-Chi Chen, Shu-Zon Lou, Cheng-Lung Lee, Peng-Cheng Sung
	ID 9	A study of visualized response surface method model for assessing postural balance
		Che-Jung Yang, Chin-Mei Chou
	ID 51	A Study on an effectiveness of GUI parts (an arrow, a figure, a color-coding)
		Fumika Kokido, Toshiki Yamaoka
15:00 ~ 15:30		Tea Break
15:30 ~ 17:00		Session Chair：*Toly Chen*
	ID 5	Symptom cluster in patients presenting to emergency department with possible ACS
		Taichih Huang, Chieh Lee
	ID 12	A study on the acceptance of innovative technologies in clothing retail
		Heloise Chalot, Pei-Luen Patrick Rau, Zhi Guo
	ID 59	Effects of inter-organizational systems implementation on supply chain capability and firm performance: evidence from Taiwan bicycle industry
		Hsi-Liang Tseng, Chien-Pang Lee, Ching-Torng Lin
	ID 3	An entropy-consensus agent-based heterogeneous fuzzy collaborative intelligence approach for estimating the unit cost of a semiconductor
		Toly Chen, Yu-Cheng Wang

Thursday, 24 August		
Session 1(Room：Y201)		
10:00 ~ 11:15		Session Chair：*Chen-Tung Chen*
	ID 61	The impacts of e-impulse buying on cognitive dissonance, satisfaction, and loyalty: the perspective of regulatory focus theory
		Chien-Wen Chen, Ching-Torng Lin, Shu Jing Wang
	ID 67	Integrating linguistic VIKOR method and social relation analysis method for ambient intelligence product project selection
		Chen-Tung Chen, Sue-Fen Huang, Wei-Zhan Hung
	ID 46	User-experienced interaction design of a second screen as television and social platform
		Chien-Hsiung Chen, Chia-Huei Sher
	ID 40	How can agents build good relationships with human beings? : optimal rate of mimicry in human-agent interaction
		Yumiko Shinohara, Hirofumi Hayakawa, Natsuki Oka, Yukiko Nishizaki
	ID 13	A comparative study on applicability of co-clustering models to collaborative filtering
		Katsuhiro Honda, Seiki Ubukata, Akira Notsu

		Thursday, 24 August
		Session 2(Room：Y202)
10:00 ~ 11:15		Session Chair：*Chin-Mei Chou*
	ID 35	Soft tactile sensations improve human–robot interaction
		Yukiko Nishizaki, Hirofumi Hayakawa, Natsuki Oka
	ID 24	A study of systems approach in service design
		Kazutoshi Sakaguchi, Seiko Shirasaka
	ID 30	On improvement of human factor interface of digital micro machine tools
		Tsu-Wu Hu, Kuan-Wu Lin
	ID 37	Study of postural balance capacity in young adults
		Tatiana Diaz, Yi-Ting Chiu, Chin-Mei Chou
	ID 49	Study of body balance at various heights for young adults
		Yi-Ting Chiu, Chin-Mei Chou, Che-Jung Yang, Jinghong Xiong, Tatiana Diaz

Thursday, 24 August		
Session 3(Room：Y208)		
		Session Chair：*Chien-Chi Chang*
10:00 ~ 11:15	ID 77	Human centered design in a three in one automated uncoiler machine
		Chun-Shih Cheng, Te-Hung Chen, Wei-Hung Chang, Mao-Jiun Wang, Jen-Yuan Chang
	ID 52	Using Kansei engineering to design hand exoskeleton device: a preliminary study
		Chia-Chen Kuo, Mao-Jiun Wang, Chien-Chi Chang, Shu-Wei Pu, Jen-Yuan Chang
	ID 32	Font size and text contrast effects on optical head-mounted display legibility
		Chih-Yu Hsiao, Yu-Ting Lu, Chien-Chi Chang, Mao-Jiun Wang
	ID 66	The comparison of anthropometric data between taiwanese male and female military personnel
		Chien-Chun Pao, Yuh-Chuan Shih, Chin-Jung Chao
	ID 54	A hybrid PCA and BPN approach to failure time prediction in the engines
		Yu Cheng Wang

Poster Session

Thursday, 24 August		
Session Room：Y203~Y206		
10:00 ~ 12:00	ID 4	Using dramaturgical theory to investigate the effect of anxiety and trust on sense of service value – a study of the patient received medical examined
		Pei-Chun Chen, Chao-Wei Chin, Yang-Kun Ou
	ID 22	Developing and testing the addiction inventory on smart phone
		Hsien-Wei Tseng, Yang-Han Lee, Yu-De Liao, Ting-Wei Lin, Yu-Hsuan Lin
	ID 23	Study the sport RRI and testing the human exercise parameters associate with feedback control system on the treadmill
		Hsien-Wei Tseng, Yang-Han Lee, Chien-Da Huang, Ting-Wei Lin
	ID 29	The study of the relationship of "Humanity" and "Linguistic modality" in design
		Keita Yasui
	ID 34	The study of appropriate touchscreen size of smartphone to fit various people's hands based on hand dimension, operation efficiency and fatigue
		Yu-Cheng Lin
	ID 43	Effectiveness of an approach for mental models measurement
		Ryota Mori
	ID 44	A study on the Boolean algebra approach for the evaluation of observation, usability and the design
		Yukari Senda, Toshiki Yamaoka
	ID 55	Menopause, job stress, exercise and sleep quality
		Zhi-Xuan Chen, Ching-Chung Chen, Chih-Lin Chang
	ID 63	Taxonomy of in-vehicle visual icon of passenger cars
		Chia-Fen Chi, Ratna Sari Dewi
	ID 69	Experience and Taguchi-Based CAE method for finding an optimal structure of a column-type grinding machine
		Hui-Cun Shen, Kun-Chieh Wang
	ID 71	Estimation equation of male body volume by 3D scanner
		Hsin-Hung Tu
	ID 76	Psychophysically determined the carrying capacity during combined carrying tasks
		Hsiu-Chen Chung, Swei-Pi Wu
	ID 78	The effectiveness of digital gardening game for the upper extremity function of stroke patients
		Mei-Hsiang Chen, Lan-Ling Huang

		Thursday, 24 August
		Session Room：Y203~Y206
13:30 ~ 15:30	ID 2	A study of energy efficiency in manual lifting tasks
		Hsin-Chieh Wu, Wei-Hsien Hong, Min-Chi Chiu
	ID 6	Non-exercise predictive model for maximal oxygen consumption of Taiwan male military personnel
		Yuh-Chuan Shih, Yao-Chung Kuo
	ID 7	The effect of 3000K light on human responses in different ages
		Chin-Mei Chou, Ru-Yu Huang, Ya-Hui Chiang
	ID 16	Design and evaluation of a programming courseware
		Ying-Lien Lee, Kai Wang
	ID 18	The effects of layout types and information display atmospheres on presence for the elderly in 3d virtual art gallery by using handheld mobile devices
		Cheng-Li Liu, Shiaw-Tsyr Uang
	ID 19	E-stickers characteristics and emotional expression
		Tsun-Hung Huang, Wan-Yu Wu, Min-Chi Chiu
	ID 47	A study of suitable lighting environment for inspectors
		Chin-Mei Chou, Bo-Xuan Li, Jing-Lan Chen, Xue Cheng, Kai-Xi Yang
	ID 60	Using user interface and experience to explore visualization representation of social big data
		Kuo-Wei Su, Yu-Wun, Wang
	ID 62	A study of designing learning aids system for school-age children
		Ming-Hsuan Hsieh; Hsin-Fu Huang
	ID 64	Developing intelligent physical workload evaluation system based on heart rate analysis
		Hsin-Chieh Wu, Shih-Hao Tung, Mao-Lun Chiang
	ID 68	A case study on applying PDCA method to reduce occupational disaster events for the major backlight module manufacturers
		Ching-Jen Huang, Yueh-Chen Cheng
	ID 74	Intelligent cloud manufacturing model for industry 4.0
		Chu-Chai Henry Chan, Ping-Chen Tsai