2012 Southeast Asian Network of Ergonomics Societies Conference

(**SEANES 2012**)

Langkawi, Kedah, Malaysia 9-12 July 2012



IEEE Catalog Number:

ISBN:

CFP1280S-PRT 978-1-4673-1732-0

TABLE OF CONTENTS

MODELS AND METHODS

Assessing suitability of similarity coefficients in measuring human mental models "% Sheau-Farn Max Liang & Li-Wen Tzeng

Making use of scenarios in human factors assessment validation of citarasa analysis system****

Halimahtun Mohd Khalid

Using paper prototyping to assess the perceived acceptance of medmate: a home-based pill dispenser $^{\prime\prime\prime\prime}\%$

Jit Chee Chua, Min-Hui Foo, Yian Ling Cheong, Jamie Ng & Chen Koon Toh

Designing the next generation of mobile tourism application based on situation awareness $^{\circ\circ}\%$

Tek Yong Lim

Modeling MEMS sensor device for green house application "%)

Soo Li Choong, Firdaus Munir, Sheridan Saidin, Wan Mohd Ariff Wan Sulaiman & Nasir Senin

Development of a holistic backpack-back pain model for school children *** Adeyemi Ademola James, Jafri Mohd. Rohani & Mat Rebi Abdul Rani

Decision making biases in using sequence logo visualization "") Nung Kion Lee & Yin Bee Oon

Evaluating decisions made in common basketball game scenarios "" (% Ng Yuwen Stella, John Brian Peacock & Tan Kay Chuan

Evaluation of training effectiveness in participatory work improvement applying a good-practice approach in small-scale workplaces ```(*

Kazutaka Kogi, Toru Yoshikawa, Takeru Kato, Miwako Nagasu & V. R. Jaganathan

Diary studies as a Macro-Ergonomic evaluation tool: Development of a shift diary and its application in ergonomic evaluations ``') \$

Christian Korunka, Roman Prem & Bettina Kubicek

FUNDAMENTAL APPLICATIONS

Foot shape classification using 3D scanning data ")*

Yu-Chi Lee, Wen-Yu Chao & Mao-Jiun Wang

Biomechanics analysis of instep kick among Malaysian football players ** & Baba Md Deros, Mohd Firdaus Mahamad Ali & Ahmad Rasdan Ismail

Physiological cost and subjective assessment of walking and riding type power tillers *** + Bini Sam

Upper body musculoskeletal disorders among professional non- government city bus drivers of Kolkata $\ddot{\ }+\%$

Samrat Dev & Somnath Gangopadhyay

Mismatch between school furniture and anthropometric measures among primary school children in Mersing, Johor "+ *

Zarith Afzan Z., Azizan Hadi S., Shamsul B.T, Zailina H., Nada I., & Siti Rahmah A.R

Design of lobster fishing equipment and its contribution to the fishery industrial cluster performance $\,$, $\,$ %

Sri Gunani Partiwi, Mohammad Ali Akbar Felayati & Adhitya Sudiarno

A study of organizational factors in occupational stress problems among workers in a polymer manufacturing factory , *

Nada I., Anita A.R., Safial Eqbal Z., Wilson C.V.S., Zarith Afzan Z., Siti Rahmah A.R. & Atikah C.H.

A study on blue blouse clothing design and selection of Taiwan Hakka culture creativity industry $\ddot{}$ - %

Wen-Liang Chen, Tzu-Hua Chen, Ya-Mei Chiang & Yi-Ling Chen

Analysis of success factors of ISO 14001 implementation – A case study in a cement company in Indonesia ***--+

Ryma Sriayu Wulandari, Juli Soemirat & Benno Rahardyan

Evaluation of concrete work strain in buildings construction %

Pornsiri Jongkol & Alongkorn Chatmuangpak

Effectiveness of new working tool for plaster ceiling job based on fatigue measurement "%-

Wyke Kusmasari & Yassierli

Occupant movement tracking in high-rise building evacuation planning using RFID technology and SMS gateway "%(

Arief Rahman, Phoolan Devi, Sri Gunani Partiwi & Adithya Sudiarno

An integrated system simulation and correction process for duct design in the industrial building "%\$\$

Wen-Liang Chen & Ya-Mei Chiang

Sustaining safety at work: accidents, cognitive failure and stress "%%) R.S. Bridger, K. Brasher & A.J. Day

Sustaining performance at sea: vessel motion thresholds for physical and cognitive performance '% \$

R.S. Bridger, P. Pisula & C.L.Lewis

The association between hand arm vibration syndrome and vibrotactile perception threshold among shipyard workers "% *

Shamsul Bahri Mohd Tamrin, Mohd Nazri Jamalohdin, Ng Yee Guan & Setsuo Maeda

A study on neck-shoulder muscle activity when using a single computer display screen versus two screens concurrently %

Grace P.Y. Szeto, Carey C.Y. Chan, Simon K.M. Chan, H.Y. Lai & Emily P.Y. Lau

Effects of guided arrows on head-up display towards the vehicle windshield '%() Krittiya Tangmanee & Sakol Teeravarunyou

Exoskeleton for human energy augmentation: the shadow-suit concept '%) % Raziff Hamsan & Dian Darina Indah Daruis

Website user experience testing tool development using open source software "%) * Ashok Sivaji & Soo Shi Tzuaan

Sensitivity of heart rate variability as indicator of driver's sleepiness '% & Manik Mahachandra, Yassierli, Iftikar Z. Sutalaksana & Kadarsah Suryadi

Assessment of motorcycle driving on the increasing rate of road accidents in Metro Manila %,

Rex Aurelius C. Robielos, Jan Michael V. De Guzman, Mary Grace C. Malapitan & Diana Ross A. Tan

Proposed standardized method for motorcycle nomenclature system "%& M Izzat Nor Ma'arof & Ismail N. Ahmad

EMERGING APPLICATIONS

A focus on cultural differences in applying Kansei Engineering to services "%, Markus Hartono, Tan Kay Chuan & John Brian Peacock

Human-oriented interaction with a TOF sensor "%' Fu-Song Hsu & Wei-Yang Lin

Investigation on hand twisting force developed by the Indian elderly for opening different kinds of bottle packaging "%, Gaur G. Ray & Swati Pal Biswas

Lower-extremity bracing can improve postural stability during walking '%' Qu Xingda & Lew Fui Ling

Factors affecting cognitive work ability among intensive care unit nurses '% + Maria Dominique Rustia & Rosemary R. Seva

WRMSDs among medical laboratory technicians "&\$' Shreya Maulik, Rauf Iqbal & Amitabha De

Adapting PRISMA for software development in rural areas: A mobile-based healthcare application case study "&\$-Siang-Ting Siew & Alvin W. Yeo

Evaluation of an arm-mounted augmented reality system in an outdoor environment '&'A' Steven J. Kerr, Mark D. Rice, G.T. Jackson Lum & Marcus Wan

Blue light exposure improves awareness during monotonous activities at night "&&% Nur Indria Lisdiani & Yassierli

Learning from the Fukushima nuclear power plant accident (Resilience point of view) "&&* Yushi Fujita

Evaluation for emergency escape during stair climbing in a simulated flood evacuation "&" %

Kentaro Kotani, Taisuke Ishigaki, Yasuyuki Baba, Keiichi Toda, Satoshi Suzuki & Takafumi

Measuring affect, behavior and cognition for modeling disaster risk attitudes "&" ** Halimahtun Mohd Khalid & Siti Norazhani Ramli

The role of social context in human-robot interaction "& & Qianli Xu, Jamie Ng, Yian Ling Cheong, Odelia Tan, Ji Bin Wong, T.C. Tay & Taezoon Park

A simple, general and robust trust agent to help the elderly select online services `&(+ Yu Han, Chunyan Miao, Xiaojun Weng & Cyril Leung

Intrinsically motivated agent for service management in smart home "&) & Guopeng Zhao, Ailiya, & Zhiqi Shen

A curious companion for elderly gamers "&), Q.Wu, Chunyan Miao, X.Tao & Martin Helander