

## Human factors & Ergonomics research presentation

**December 12, 2018**

### Room A: Work related musculoskeletal disorders

Time	Code	Title / Author	Country
13.00-13.20	EST25-0001	Prevalence of self-reported musculoskeletal pain, perceived risk factors and quality of life among school students and adolescents <i>Saravanan Murugan*, Divya Mistry, Jinal Modi, Juveriya Noorani, Pooja Virani</i>	India
13.20-13.40	EST25-0002	Prevalence of and risk factors for musculoskeletal pain and coping strategies in school teachers <i>Saravanan Murugan*, Disha Avaiya, Ibrahim Bawa, Shah Charmi, Vaghasiya Ekta</i>	India
13.40-14.00	EST31-0001	The association of worker characteristics and occupational factors with musculoskeletal complaints of building construction workers in Indonesia <i>Wyke Kusmasari, Titah Yudhistira, Iftikar Zahedi Satalaksana, Yassierli</i>	Indonesia
14.00-14.20	EST48-0001	Prevalence of work-related musculoskeletal disorders among Thai oil palm workers in Khao Phanom district, Krabi province, Thailand <i>Sirothorn Tewtow, Petcharatana Bhuanantanondh*, Keerin Mekhora</i>	Thailand
<b>14.20-14.40</b>		<b>Coffee break</b>	
14.40-15.00	EST64-0001	A study on relationship between fatigue and the myofascial trigger point syndrome (MTPS) experienced by Yogya handmade batik artisans. <i>Ika Fitri Wulan Dhari*, Anniza, M, Hilmi Zadah Faidullah</i>	Indonesia
15.00-15.20	EST127-0001	Ergonomic design for musculoskeletal disorder prevention in the chemical processing industry: a case study on weighing stations and the transfer of liquid catalysts <i>Yayan Harry Yadi*, L Meily Kurniawidjaja</i>	Indonesia
15.20-15.40	EST139-0001	Participatory Ergonomic Approach Impacted on Functions in Knee Osteoarthritis: Clustered Randomized Controlled Trial <i>Napaporn Tangadulrat*, Sangarun Isaramalai, Pornit Wattanapisitkul, Tippawan Kaewmanee, Kanokwan Hounsri, Varah Yuenyongviwat, Chanon Kongkamol</i>	Thailand

## Human factors & Ergonomics research presentation

December 12, 2018

### Room B: Product & Work system design

Time	Code	Title / Author	Country
13.00-13.20	EST28-0001	Improvement of Working Process in Laundry Center: A Preliminary Study <i>Nanthawan Am Eam,* Suttisak Niengkong, Chlita Maiyark</i>	Thailand
13.20-13.40	EST42-0001	Usability study in haptic control and handling interface design for remote operated container crane application <i>Ummi Noor Nazahiah Nazahiah Abdullah*, Norashiken Othman, Lauri O. Luostarinen, Heikki M. Handroos</i>	Malaysia
13.40-14.00	EST45-0001	Work attitudes improvement and work stations, reduce workload and musculoskeletal complaints to improve the productivity of the worker at drum factory Gianyar Bali <i>Cokorda Istri Dharmayanti*, Agnes Ayu Biomi, I Made Juli Arsana</i>	Indonesia
14.00-14.20	EST52-0001	Development of Kawaii Usability Evaluation Questionnaire and Its Analysis for Startup Mobile Application <i>Adithya Sudiarno*, Hidayaturochman Ridho, and Ratna Sari Dewi</i>	Indonesia
<b>14.20-14.40</b>		<b>Coffee break</b>	
14.40-15.00	EST53-0001	Explanatory Modelling of Factors Influencing Adoption of Smartphone Shopping Application <i>Ezekiel Bernardo*, Jazmin Tangsoc</i>	Philippines
15.00-15.20	EST63-0001	Work Efficiency Measurement Using Work Sampling Approach <i>Nawang Wahyu Widiatmaka*, Muhammad Ragil Suryoputro*, Muchamad Sugarindra*</i>	Indonesia
15.20-15.40	EST29-0001	Work Fatigue Related to Work Production of Laundry Worker at Cuci House Laundry Bali <i>Aris Maytadewi Negara*, Prihastini, I Dewa Putu Sutjana</i>	Indonesia

## Human factors & Ergonomics research presentation

December 12, 2018

### Room C: Physical ergonomics

Time	Code	Title / Author	Country
13.00-13.20	EST26-0001	Exploratory study on the impacts of vibration exposure on hand functionality and forearm muscle activities <i>Josefa Angelie Dilla Revilla*</i> , <i>Ping Yeap Loh</i> , <i>Satoshi Muraki</i>	Japan
13.20-13.40	EST30-0001	Comparison of the effect of cold fluid and crushed ice ingestion on thermoregulatory responses during physical activity in a simulated hot-humid environment <i>Titis Wijayanto*</i> , <i>Ghani Furqon Abdul Rahman</i> , <i>Valentina Kunti Bratadewi</i> , <i>Moony Sinawang</i> , <i>Harendra Surya Prakasa</i>	Indonesia
<b>13.40-14.00</b>		<b>Coffee break</b>	
14.00-14.20	EST62-0001	Effect of Forward Head Posture on Fatigue in Batik Worker <i>Meiza Anniza</i> , <i>Laksmita</i> , <i>DY</i> , <i>Setiawan</i> , <i>DI*</i>	Indonesia
14.20-14.40	EST126-0001	A Short Review on the Anatomy and Biomechanics for Grasp and Pinch <i>Ping Yeap Loh*</i> , <i>Shin Takesue</i> , <i>Wen Liang Yeoh</i> , <i>Satoshi Muraki</i>	Japan

## Human factors & Ergonomics research presentation

December 12, 2018

### Room D: Cognitive & mental workload analysis

Time	Code	Title / Author	Country
13.00-13.20	EST32-0001	The effect of color and space between graph elements on comprehension <i>Katrina Chinjen, Nicole Ann Therese Estoista, Rosemary Ruiz Seva*, Judy Ann Wu</i>	Philippines
13.20-13.40	EST46-0001	The Mental Workload by EEG Application: A Case Study of Error in the Inspection Process in Belt Processing <i>Prachuab Klomjit*, Phanudech Keawpratum, Anupong Somsuk, Nitipan Chuenchob</i>	Thailand
13.40-14.00	EST63-0003	Using Linear Regression and Correlation Analysis to Trace The Most Influential Variable in Subjective Mental Workload (NASA-TLX) <i>Nawang Wahyu Widiatmaka*, Muhammad Ragil Suryoputro*, Anindya Agripina Hadyanawati</i>	Indonesia
<b>14.00-14.20</b>		<b>Coffee break</b>	
14.20-14.40	EST70-0001	Effects of Long Exposures of Peppermint Aroma on Awareness in Simulated Driving <i>Dwita Astari Pujiartati*, Alam Faturrochman, Yassierli Yassierli</i>	Indonesia
14.40-15.00	EST92-0001	Comparison of Workload Perception for Original and Modified Cognitive Tasks <i>Shuxun Chi, Manida Swangnetr Neubert*, Orawan Buranruk, Weerawat Limroongreungrat, Wichai Eungpinichpong, Rungthip Puntumetakul</i>	Thailand

## Human factors & Ergonomics research presentation

December 13, 2018

### Room A: Product & Work system design & Anthropometry

Time	Code	Title / Author	Country
13.00-13.20	EST44-0001	Head and Face Anthropometric Study for Chinese Children <i>Fang Fu, Yan Luximon*</i>	Hong Kong
13.20-13.40	EST59-0001	Anthropometric Study of People with Walking Difficulties. <i>Mesa Artsit, Chaichana Tasoongnern, Kannika Panton, Pornsiri Jongkol*</i>	Thailand
13.40-14.00	EST61-0001	Redesigning tools to avoid musculoskeletal disorder and increase efficiency on workers in Raja Bawang Rambak crackers industry Yogyakarta, Indonesia <i>Dean Tirkaamiana, Nazila Syarafina Rismhandani*</i>	Indonesia
14.00-14.20	EST65-0001	Usability Evaluation and Design of Student Information System Prototype to Increase Student's Satisfaction (Case Study: X University) <i>Linda Studiyanti*, Abror, Azmi, Saraswati</i>	Indonesia
14.20-14.40		Coffee break	
14.40-15.00	EST74-0001	Productivity Analysis on Batik Production Line Using Objective Matrix (OMAX) Method <i>Nashtiti – Aliafari*, Muhammad Ragil Suryoputro*, Natasya Mazida Rahman</i>	Indonesia
15.00-15.20	EST77-0001	Effect of a passive exoskeleton on muscle activity and working posture during order picking <i>Roeland Motmans*, Thomas de Baets, Sarah Chrispeels</i>	Belgium
15.20-15.40	EST79-0001	An accuracy study of human body measurement by 2-D photo from digital camera. <i>Nathapon Puttyangkura* and Phairoat Ladavichitkul</i>	Thailand

## Human factors & Ergonomics research presentation

**December 13, 2018**

### Room B: Product & Work system design

Time	Code	Title / Author	Country
13.00-13.20	EST33-0001	Test-retest reliability of a tool differentiating the cue utilization of experts and experienced practitioners for the purposes of ergonomic analyses. <i>Mark W. Wiggins*</i> , <i>Jaime C. Auton</i>	Australia
13.20-13.40	EST123-0001	The contribution of virtual reality to the indoor navigation. <i>Anny Maryani</i> , <i>Retno Widyaningrum*</i> , <i>Ratna Sari Dewi</i> , <i>Adithya Sudiarno</i> , <i>Dyah Santhi Dewi</i>	Indonesia
13.40-14.00	EST55-0001	Development of a safety culture measurement model in aircraft maintenance industry (Case study: Garuda maintenance facility) <i>Nilla*</i> , <i>Sutalaksana</i>	Indonesia
14.00-14.20	EST80-0001	Ergonomic Bracelet Design in Triage Code Based on Reaction Time Speed: Case Study of Team Evacuation Natural Disaster Victims. <i>Muhamad Nashirulhaqi Izzuddin</i> , <i>Muhammad Fadhil Farras</i> , <i>Ghina Allam Nurhusna*</i>	Indonesia
<b>14.20-14.40</b>		<b>Coffee break</b>	
14.40-15.00	EST92-0002	Adaptable Ergonomic Interventions for Patients with Cerebral Palsy to Rice Farmers: Reviews and Recommendations. <i>Agung Kristanto</i> , <i>Manida Swangnetr Neubert*</i> , <i>Rungthip Puntumetakul</i> , <i>Weerapat Sessomboon</i>	Thailand
15.00-15.20	EST137-0001	A Novelty Framework for Smartphone Consumer Satisfaction and Loyalty Prediction <i>Alma Maria Jennifer Areopagita Gutierrez*</i> and <i>Bernardo</i>	Philippines

## Human factors & Ergonomics research presentation

**December 13, 2018**

### Room C: Product & Work system design & Workload analysis & Design for aging

Time	Code	Title / Author	Country
13.00-13.20	EST49-0001	Using DECA to identify affective and functional features in car design <i>Martin Helander*</i> , <i>Halimahtun Khalid</i> , <i>Hong Peng</i>	Malaysia
13.20-13.40	EST50-0001	Effects of presence and feedback on human trust in robots; comparing teleoperation and proximate interaction <i>Halimahtun Khalid*</i> , <i>Wei Shiung Liew</i> , <i>Martin Helander</i>	Malaysia
13.40-14.00	EST59-0003	Study of Facilities Requirements of Senior Tourists in Nakhon Ratchasima <i>Thananon Pliansangkom</i> , <i>Narongdet Suanpet</i> , <i>Rachaneekorn Polpattapee</i> , <i>Wut Dankittikul</i> , <i>Pornsiri Jongkol</i>	Thailand
14.00-14.20	EST59-0004	Characteristics of handrail and stairs used in health park for elderly <i>Pornsiri Jongkol*</i> , <i>Saksun Phansawad</i> , <i>Wut Dankittikul</i> , <i>Porapat Sinlapasat</i>	Thailand
<b>14.20-14.40</b>		<b>Coffee break</b>	
14.40-15.00	EST63-0002	Pulse Rate Measurement Using Tensimeter Tool in Cardiovascular Load Assessment <i>Nawang Wahyu Widiatmaka*</i> , <i>Muhammad Ragil Suryoputro*</i> , <i>Muhammad Safri Setiawan</i>	Indonesia
15.00-15.20	EST69-0001	Workload Analysis in a University Maintenance Division <i>Ratna Sari Dewi*</i> , <i>Arief Rahman</i> , <i>Retno Dwi Astuti</i>	Indonesia
15.20-15.40	EST59-0005	A Survey of Problems of Using Bathroom and Toilet of Elderly <i>Nichchapat Arpawasinsuk</i> , <i>Preecha Panya</i> , <i>Worakan Tuengta</i> , <i>Wut Dankittikul</i> , <i>Pornsiri Jongkol*</i>	Thailand

## Human factors & Ergonomics research presentation

**December 13, 2018**

### Room D: Product & Work system design & Workload analysis & Design for aging

Time	Code	Title / Author	Country
13.00-13.20	EST37-0001	Personal home device development to support elderly with dementia to live independently <i>Yansen Theopilus*, Kristiana Asih Damayanti, Romy Loice</i>	Indonesia
13.20-13.40	EST51-0001	Effects of Gender, Laterality, Reaching Location, and Body Posture on the Maximum Reach of Elders <i>Noppamas Weingket*, Haruetai Lohasiriwat</i>	Thailand
13.40-14.00	EST54-0001	A preliminary study of block walkway dimensions based on Thai elder gait analysis <i>Phairoat Ladavichitkul*, Worawut Korjareon</i>	Thailand
14.00-14.20	EST56-0001	The effect of the sitting height, gender and age on the sit-to-stand behavior of the elderly Thai people <i>Pongsatorn Promsakon*, Phairoat Ladavichitkul</i>	Thailand
<b>14.20-14.40</b>		<b>Coffee break</b>	
14.40-15.00	EST59-0002	Effects of Body Posture on Forward Trunk Flexion Ability of Elderly <i>Suparat Kangsantia, Ratih Dianingtyas Kurnia, Supaporn endoo, Wut Dankittikul, Pornsiri Jongkol*</i>	Thailand
15.00-15.20	EST124-0001	Postural Ergonomic Assessment among Malaysian Crawler Crane Operator at Construction Site <i>Dian Darina Indah Daruis*, Nor Kamaliana Khamis, Baba Md. Deros, Norhaqimi Noordin, Mohd S.A. Razak, David J.M. Josue, Mohd Z. Osman, Ekmal, F. Alias and Sivenesan Marthammuthu</i>	Malaysia
15.20-15.40	EST125-0001	Risk-Factors Analysis of Work Posture in Workstations for Toluenesulfonyl Hydrazide and Azodicarbonamide Reaction of Chemical Process Industry <i>Fennia Herma Yunita*, Kurniawidjaja</i>	Indonesia