



2018 CONFERENCE 


2018 CONFERENCE HOME PAGE

PAPERS SORTED BY SESSION

PAPERS SORTED BY PRIMARY AUTHOR LAST NAME

PAPERS SORTED BY TITLE

SPEAKERS

ABOUT ISOES 

XXXth Annual International Occupational Ergonomics and Safety Conference
June 7-8, 2018
Pittsburgh, Pennsylvania, USA

2018 Conference - Papers Sorted by Session

SESSIONS LISTING

June 7, Thursday

[KEYNOTE ADDRESS: Human Dimensional Variability: A Safety Problem and Opportunity](#)

[Session I - Occupational Ergonomics](#)

[Session II - Biomechanics and Work Physiology](#)

[Session III - Workplace Safety and Health](#)

[Session IV - Case Studies and Applications](#)

[DINNER TALK: From Research to Design: Footwear and Ladder Design for Preventing Falling Accidents](#)

June 8, Friday

[Session V - Special Topics in Ergonomics & Safety](#)

Session I - Occupational Ergonomics

Paper

[Exploring Mental Model Differences Between Firefighters and Public Health Researchers to Inform Exposure Reporting System Design](#)

- *B. Millet*

[Association between Stress and Intensity of Low Back Pain among Thai Nursing Students](#)

- *C. Sopajareeya*

[An Examination of the Musculoskeletal Impact of Residential Solar Panel Installation](#)

- *V. Guinsler and D. Schwerha*

[Analysis of Injuries from Sports and Recreational Equipment in the US](#)

- *S. N. Imrhan*

[Ergonomic Assessment of Cleaning Spray Bottles for the Hotel Housekeeping use](#)

- *M. Zreiqat, L. S. Marin, and W. Minnick*

[Back to Top](#)

Session II - Biomechanics and Work Physiology

Paper

[Caregiver Trunk and Upper Limb Kinematics When Using Three Different Patient Transport Chairs](#)

- *A. Vijayvargiya, H. Kulich, J. Slowik, S. Bass, J. Griscavage, and A. M. Koontz*

[Effect of Wrist Extension Angles and Low Velocity Ulnar Deviation Movements on Muscle Activities](#)

- *A. Ardiyanto, S. Subagyo, and H. Herianto*

[Kinematic Variables in Operating a Computer Game Controller](#)

- *S. N. Imrhan and F. Proma*

[Evaluation of Shoulder Strain During Multi-Directional Forceful Arm Exertions](#)

- M. Eddy, C. Moore, and A. Nimbarte

[Association Between Heart Rate Variability and Perceived Physical Exertion](#)

- D. Conde, J. S. Moore, K. Browne, and G. Ibarra-Mejia

[Back to Top](#)

Session III - Workplace Safety and Health

Paper

[Predictors of occupational injuries at continuous miner worksite: An epidemiological study](#)

- A. Senapati and A. Bhattacharjee

[Evaluation of Performance of Metacarpal Gloves used in the Mining Industry under Impact Loads](#)

- E. M. Sosa, J. M. Dean, and J. R. Brady

[Lateral Reaching on Stepladders and the Belly Button Rule](#)

- A. DiDomenico

[Back to Top](#)

Session IV - Case Studies and Applications

Paper

[Stump Grinder Accident Reconstruction and Design Testing Methodology Analysis](#)

- D. B. Brickman, A. C. Mathias, and J. M. Roberts

[Railroad Hand Switch Stand Operation – An Update](#)

- G. B. Page, S. Fleming, G. G. Weames, and J. Vanderpool

[Free Resources for Ergonomic Analyses from the National Institute for Occupational Safety and Health](#)

- M. Hayden

[Informing Design of Clinical Trials Website](#)

- B. Millet, K. Grinfeder, and S. Morgan

[Application of Ergonomic Assessment Methods on an Exoskeleton Centered Workplace](#)

- C Dahmen and M Hefferle

[Back to Top](#)

Session V - Special Topics in Ergonomics & Safety

Paper

[Analysis of Managerial Heuristics through the Last Few Decades](#)

- J. Muhammad, J. Chaudri, and P. Dasgupta

[Winning the Ergonomic Justification Battle: Recognizing and Measuring Labor and Cost Saving Potential: A Case Study](#)

- R. Wyatt

[Are there Different Perceptions of Ergonomic Programs between Managers and Workers in Construction?](#)

- S. D. Choi

[Quantifying Grip Strength Requirements While Riding Freight Cars during Slack Action Events](#)

- S. D. Fleming, G. B. Page, G. G. Weames, and J. M. Vanderpool

[Hospital Industry and High Reliability: Strategies in Preventing Caregiver Injuries](#)

- R. V. Maikala

[Wearable Technology for Design and Safety Evaluation of Aerial Adventure Attractions: Focusing on Acceptable Acceleration and G-Force Limits](#)

- S. Sicat, K. Woodcock, and A. Ferworn

[Back to Top](#)