Personal information

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Education

National Tsing Hua University	Department of Industrial Engineering and Engineering Management	PhD	1999/ 09~2005/ 06
Huafan University	Department of Industrial Engineering and Management Information	MS	1983/ 09~1986/ 06
St. John's University	Department of Industrial Engineering and Management	BS	1980/ 09~1982/ 06
St. John's and St. Mary's Institute of Technology	Department of Industrial Engineering and Management	AAS	1974/ 09~1979/ 06

Experience

Asia Eastern University of Science and Technology	Department of Industrial Management	Assistant Professor	2024/ 08~Now
Chaoyang University of Technology	Department of Industrial Engineering and Management	Adjunct Assistant Professor	2024/02~2024/07
Tunghai University	Department of Industrial Engineering and Enterprise Information	Postdoctoral Research Fellow	2023/10~2024/07
National Tsing Hua University	Center for General Education	Adjunct Assistant Professor	2020/08~2024/01
Minghsin University of Science and Technology	Department of Business Administration	Adjunct Assistant Professor	2018/02~2024/01
Taipei University of Marine Technology	Center for General Education	Adjunct Assistant Professor	2017/08~2020/07
National Tsing Hua University	Department of Power Mechanical Engineering/ Smart Manufacturing Project Promotion Office (MOST)	Postdoctoral Research Fellow	2016/09~2021/12

National Tsing Hua University	Department of Industrial Engineering and Engineering Management	Postdoctoral Research Fellow	2014/02~2016/07
MacKay Memorial Hospital/ Hsinchu city	Department of Physical Medicine and Rehabilitation	Medical Research Assistant	2007/01~2008/01

●Expertise

- Human Factors
- Smart Manufacturing

●Research Outcomes

(1) Journal Paper

- S. R. Wu, T. H. Chen, and H. Y. Tsai (2019). A review of actuation force in origami applications. Journal of Mechanics, 35(5), 627-639. (SCI)
- X. S. Zhao, T. H. Chen, K. Zhang, and M. J. Wang (2019). “Applying an improved failure mode effect analysis method to evaluate the safety of a three-in-one machine tool.” Human Factors & Ergonomics in Manufacturing and Service Industries, 30(1), 71-82. (SCI)
- C. F. Hsu, H. Y. Tsai, and T. H. Chen (2018). The effect of manufacturing parameters and environmental factors on mechanical properties of carbon fiber/epoxy carbon composites. Journal of Mechanics, 34(6), 839-846. (SCI)
- T. H. Chen, C. F. Fan, and M. J. Wang (2015). The effects of cleanroom noise intensity and frequency on physiological measures and subjective responses.” WORK: A Journal of Prevention, Assessment, and Rehabilitation, 51(4), 771-780. (SSCI)
- T. H. Chen, W. P. Chen, and M. J. Wang (2014). The effect of air permeability and water vapor permeability of clean room clothing on physiological responses and wear comfort. Journal of Occupational and Environmental Hygiene. 11(6), 366-376. (SCI)
- T. H. Chen, C. L. Lin, and M. J. Wang (2014). The evaluation of double-layer clothing in semiconductor manufacturing environment. International Journal of Human Factors and Ergonomics in Manufacturing and Service Industries, 24(2), 207-215. (SCI)
- C. Y. Che, H. C. Chung, T. H. Chen (2006). Evaluation of Heavy Physical Works-Hammering and Sand-Shoveling. Journal of Occupational Safety and Health, 14(3), 242-252。

(2) Conference Paper

- T. H. Chen, S. H. Liu, and M.J. J. Wang (2024). The study of rotating shift work systems in petrochemical industry. The 22nd Triennial Congress of the International Ergonomics Association (IEA), ICC Jeju, Republic of Korea. (accepted)
- T. H. Chen, Y. Y. Kao, and M. J. J. Wang (2018). The psychophysical evaluations of baby carriers. The 9th International Conference on Applied Human Factors and Ergonomics (AHFE), Orlando, Florida, USA.
- T. H. Chen, S. H. Liu, and M. J. J. Wang (2018). Study of the best shift work system in a petrochemical company. The 9th International Conference on Applied Human Factors and Ergonomics (AHFE), Orlando, Florida, USA.
- C. S. Cheng, T. H. Chen, W. H. Chang, M. J. J. Wang, and J. Y. Chang (2017). Human centered

design in a three in one automated uncoiler machine. The 3rd International Conference on Ambient Intelligence and Ergonomics in Asia, Kyoto, Japan.

- T. H. Chen, J. Yang, and M. J. J. Wang (2016). The ergonomic evaluation of child car seat design. The 17th Asia Pacific Industrial Engineering and Management Systems Conference, Taiwan.
- T. H. Chen, Y. Y. Kao, and M. J. J. Wang (2015). The psychophysical evaluations of baby carriers. The 16th Asia Pacific Industrial Engineering and Management Systems Conference, Vietnam.
- J. Yang, T. H. Chen, and M. J. J. Wang (2015). The ergonomic evaluation of child car seat design. The 22th Annual Meeting of the Ergonomics society of Taiwan, Taoyuan, Taiwan. (The Best Paper Award)
- S. H. Liu, T. H. Chen, and M. J. J. Wang (2013). The study of the best shift work system in Petro-chemical industry. The 13th Chinese Institute of Industrial Engineers Conference (CIIE'13), Pingtung, Taiwan.
- T. H. Chen, C. F. Fan, and M. J. J. Wang (2013). The effects of cleanroom noise intensity and frequency on physiological measures and subjective responses. The 13th International Symposium Occupational Safety and Hygiene (SHO), Guimaraes, Portugal.
- T. H. Chen, W. P. Chen, and M. J. J. Wang (2012). The effect of air permeability and water vapor permeability of cleanroom clothing on physiological responses and wear comfort. The 13th Asia Pacific Industrial Engineering and Management Systems Conference, Thailand.
- C. Y. Wu, T. H. Chen, and M. J. J. Wang (2012). Anthropometry and scoliosis survey for school children with mental and physical disabilities. The 5th International Conference on Applied Human Factors and Ergonomics (AHFE), San Francisco, California, USA.
- T. H. Chen, C. L. Lin., and M. J. J. Wang (2010). The evaluation of double-layers clothing on clothing microclimate, physiological responses and subjective comfort. The 3rd International Conference on Applied Human Factors and Ergonomics (AHFE), Miami, Florida, USA.
- C. L. Lin, T. H. Chen, W. P. Chen, and M. J. J. Wang (2010). The effect of clean room suit on physical and psychological responses. The 17th Annual Meeting of the Ergonomics society of Taiwan, E054, Taipei city, Taiwan.
- T. H. Chen, C. L. Lin, and M. J. J. Wang (2010). The evaluation of double-layer clothing on microclimate and physiological responses. The 17th Annual Meeting of the Ergonomics society of Taiwan, E165, Taipei city, Taiwan.
- T. H Chen, C. F. Fan, M. J. J. Wang, and M. C. Chiu (2007). The effects of noise intensity and frequency on physiological measures and subjective responses. The 36th International Congress and Exhibition on Noise Control Engineering, Istanbul, Turkey.
- M. J. Chung, J. P. Chen, T. H. Chen, C. Y. Wu, and M. J. J. Wang (2007). The study of anthropometric data for school children in Taiwan. Proceeding of the 8th Asian Pacific Industrial Engineering and Management Systems, Kaohsiung city, Taiwan.
- H. C. Chung, and T. H. Chen (2006). Ergonomic design and performance evaluation for hair dryers. The 4th Conference on Invention of Industry Management, A0057, Taizhong, Taiwan.
- H. Y. Tseng, B. S. Liu, T. H. Chen, et al. (2001). Improvement the pressing workstation arrangement of the slide manufacturing plant. The 10th Annual Meeting of the Ergonomics society of Taiwan, 411-416, Hsinchu, Taiwan.

(3) Published Book

- T. H. Chen, Y. Y. Kao, and M. J. J. Wang (2019). The psychophysical evaluations of baby carriers. AHFE 2018, Advances in Intelligent Systems and Computing. R. S. Goonetilleke and W. Karwowski (eds.): 789, pp. 234-241. [ISBN: 9783319944838]

- C. Y. Wu, T. H. Chen, and M. J. J. Wang (2012). Anthropometric and scoliosis survey for children with physical and mental disabilities. Advances in Human Aspects of Healthcare. V. G. Duffy (ed.), CRC Press: pp. 583-591. [ISBN: 9781439870211]

●Patents

- C. Yang, T. H. Chen, and M. J. J. Wang, Car safety seat, US Patent Pub No. 9676302B2, 2017
- C. Yang, T. H. Chen, and M. J. J. Wang, Car safety seat, US Patent No. 9701224B2, 2017.
- C. Yang, T. H. Chen, and M. J. J. Wang, Adjustable footrest assembly and car safety seat, US Patent No. 9676302B2, 2017.
- C. Yang, T. H. Chen, and M. J. J. Wang, Adjustable footrest assembly and car safety seat, ROC Patent No. I597190, 2017.
- C. Yang, T. H. Chen, and M. J. J. Wang, Car safety seat, ROC Patent No. I564189, 2017.
- C. Yang, T. H. Chen, and M. J. J. Wang, Car safety seat, ROC Patent No. I551482, 2016.