工 業 管 理 系

陳德鴻 老師

●基本資料

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●學歷

國立清華大學	工業工程與工程管理所	博士	2006/09~2014/06
私立華梵大學	工業工程與經營管理所	碩士	2003/09~2006/06
私立聖約翰科技大學	工業工程與管理系	二技	2001/09~2003/06
私立新埔工專	工業工程與管理科(夜)	二專	1998/06~2001/06

●經歷

1.亞東科技大學工管系	助理教授	2024/08~迄今
2.私立朝陽科大工管系	兼任助理教授	2024/02~2024/07
3.私立東海大學工工系	博士後研究員	2023/10~2024/07
4.國立清華大學通識中心	兼任助理教授	2020/08~2024/01
5.私立明新科技大學企管系	兼任助理教授	2018/02~2024/01
6.台北海洋科技大學通識中心	兼任助理教授	2017/08~2020/07
7.國立清華大學動機系/科技部智慧製造與技術專案辦公室	博士後研究員	2016/09~2021/12
8.國立清華大學工工系	博士後研究員	2014/02~2016/07
9.新竹馬偕醫院復健科	醫學研究助理	2007/01~2008/01

●學會

1.中華民國人因工程學會	會員	2024/07~迄今
2.中華人性化創新與設計學會	理事	2018/03~2024/03

●專長

人因工程、智慧製造

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●著作

(1) 期刊論文

- 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)***
- 陳志勇、鍾綉貞、陳德鴻 (2006)。重體力工作之評估研究-以鏟沙與敲擊作業為例。勞工安全衛生研究季刊，14(3), 242-252。

(2) 研討會論文

- 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 獲最佳論文獎)
- 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) 專書及專書論文

- 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]

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●專利

- 美國發明專利-Adjustable footrest assembly and car safety seat (US Patent No. 9,676,302 B2; 2017)
- 美國發明專利-Car safety seat (US Patent No. 9,701,224 B2; 2017)
- 美國發明專利-Car safety seat (US Patent No. 9,776,534 B2; 2017)
- 中華民國發明專利-可調式踏墊組件及車用安全座椅 (ROC Patent No: I597190; 2017)
- 中華民國發明專利-車用安全座椅 (ROC Patent No.: I564189; 2017)
- 中華民國發明專利-車用安全座椅 (ROC Patent No. I551482; 2016)