

王茂駿 教授 (Professor Mao-Jiun J. Wang)著作目錄 (Publication List)**A. Journal Papers (* Corresponding author)**

1. Y. C. Lee, and M. J. Wang*, "Taiwanese adult foot shape classification using 3D scanning data", *Ergonomics*, Mar; 58(3): 513-23 (2015). [SCI]
2. Y. C. Lee, G. Lin, and M. J. Wang*, "Comparing 3D foot scanning with conventional measurement methods", *Journal of Foot and Ankle Research*, (2015). [SCI] (In press)
3. Y. L. Lin, M. J. Wang, "The development of a clothing fit evaluation system under virtual environment", *Multimedia Tools and Applications*, (2015). [SCI] (Accepted)
4. J. P. Chen, M. J. Chung, C. Y. Wu, K. W. Cheng, and M. J. Wang*, "A comparison of barefoot walking and shoe walking between children with and without flatfeet", *Journal of American Podiatric Medical Association*, Vol 15, No 3, 1-8, (2015). [SCI]
5. Y. C. Lee, M. Kouchi, M. Mochimaru, and M. J. Wang, "Comparing 3D foot shape models between Taiwanese and Japanese females", *Journal of Human Ergology*, (2015). [SCI] (Accepted).
6. T. H. Chen, F. C. Chen, and M. J. Wang*, "The effects of cleanroom noise intensity and frequency on physiological measures and subjective responses", *Work: A Journal of Prevention, Assessment and Rehabilitation*, (2015). [SSCI] (In press)
7. B. W. Hsu, M. J. J. Wang*, and C. Y. Chen, F. Chen, "Effective indices for monitoring mental workload while performing multiple task", *Perceptual & Motor Skills: Learning & Memory*, 2015, 121, 1, 1-24. [SSCI]
8. T. H. Chen, W. P. Chen, and M. J. Wang*, "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, (2014). [SCI]
9. T. H. Chen, C. L. Lin, and M. J. Wang*, "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, (2014). [SCI]
10. C. L. Lin, L. J. Tu, and M. J. Wang*, "Improving SEM inspection performance in semiconductor manufacturing industry", *International Journal of Human Factors and Ergonomics in Manufacturing and Service Industries*, 24(1), 124-129, (2014). [SCI]
11. B. W. Hsu, and M. J. Wang*, "Evaluating the effectiveness of using electroencephalogram power indices to measure visual fatigue", *Perceptual and Motor Skills*, 116 (1), 235-252, (2013). [SSCI]
12. C. F. Kuo, and M. J. Wang*, "Motion Generation and Virtual Simulation in a Digital

- Environment", *International Journal of Production Research*, 50:22, 6519-6522, (2012). [SCI]
13. Y. C. Lee, G. Lin, and M. J. Wang*, "Evaluating insole design with joint motion, plantar pressure and rating of perceived exertion measures", *Work: A Journal of Prevention, Assessment and Rehabilitation*, 41, 1114-1117, (2012). [SSCI]
 14. M. J. Chung, and M. J. Wang*, "Gender and walking speed effects on plantar pressure distribution for adults aged 20-60 years", *Ergonomics*, Vol. 55, No 2, 194-200, (2012). [SCI]
 15. Y. L. Lin, M. J. Wang, Y. Y. Tsai, and J. Huang, "Feature extraction from depth camera", *Advanced Science Letters*, 9, 429-434, (2012).
 16. M. W. Riley, Y. T. Hung, M. J. Wang, Y. L. Lin, and J. C. Blunk, "Interactions between task repetition and psychosocial factors", *Work: A Journal of Prevention, Assessment and Rehabilitation*, 41, 2392-2397, (2012). [SSCI]
 17. Y. L. Lin, and M. J. Wang*, "Constructing 3D human model from front and side images", *Expert System with Applications*, 39, 5012-5018, (2012). [SCI]
 18. Y. L. Lin, and M. J. Wang*, "Automated body feature extraction from 2D images", *Expert System with Applications*, 38, 2585-2591, (2011). [SCI]
 19. M. J. Chung, and M. J. Wang*, "The change of gait parameters during walking at different percentage of preferred walking speed for healthy adults aged 20-60 years", *Gait and Posture*, 31, 131-135, (2010). [SCI]
 20. J. M. Lu, and M. J. Wang*, "The evaluation of scan-derived anthropometric measurements", *IEEE Transactions on Instrumentation & Measurement*, Vol. 59, No 8, 2048-2054, (2010). [SCI]
 21. S. W. Chang, M. J. Wang*, and N. J. Delleman, "Approach strategy and working posture in manual hand tool operation", *Human Movement Science*, 29, 228-242, (2010). [SCI]
 22. C. L. Lin, M. J. Wang*, and C. G. Drury, "Evaluation of perceived discomfort in repetitive arm reaching and holding tasks", *International Journal of Industrial Ergonomics*, 40, 90-96, (2010). [SCI]
 23. J. M. Lu, M. J. Wang*, and R. Mollard, "The effect of arm posture on the scan-derived measurements", *Applied Ergonomics*, 41, 236-241, (2010). [SCI]
 24. J. M. Lu, and M. J. Wang*, "The development of an intelligent system for customized clothing making", *Expert Systems with Applications*, 37, 799-803, (2010). [SCI].
 25. C. L. Lin, M. S. Chen, Y. L. Wei, and M. J. Wang*, "The evaluation of force exertions and muscle activities when operating a manual guided vehicle", *Applied Ergonomics*, 41, 313-318, (2010). [SCI]

26. C. F. Kuo, and M. J. Wang*, "Motion generation from MTM semantics", *Computers in Industry*, 60, 339-348, (2009). [SCI]
27. Y. Y. Kang, M. J. Wang*, and R. T. Lin, "Usability evaluation of e-books", *Displays*, 30 (2), 49-52, (2009). [SCI]
28. J. P. Chen, M. J. Chung, and M. J. Wang*, "Flatfoot prevalence and foot dimensions of the 5 to 13 year old", *Foot and Ankle International*, 30 (4), 326-334, (2009). [SCI]
29. M. J. Chung, and M. J. Wang*, "The effect of age and gender on joint range of motion of worker population in Taiwan", *International Journal of Industrial Ergonomics*, 39, 596-600, (2009). [SCI]
30. J. M. Lu, and M. J. Wang*, "Automated data collection using 3D whole body scanner", *Expert Systems with Applications*, 35, 407-414, (2008). [SCI]
31. S. W. Chang, and M. J. Wang*, "Digital human modeling and workplace evaluation: Using automobile assembly task as an example", *International Journal of Human Factors in Manufacturing*, 17 (5), 445-455, (2007). [SCI]
32. C. F. Kuo, and M. J. Wang*, "Interactive virtual evaluation for interface design", *International Journal of Human Factors in Manufacturing*, 17 (5), 485-495, (2007). [SCI]
33. M. C. Chiu, M. J. Wang*, C. W. Lu, S. M. Pan, M. Kumashiro, and J. Ilmarinen, "Evaluating work ability and quality of life for clinical nurses in Taiwan", *Nursing Outlook*, 55 (6), 318-326, (2007). [SCI]
34. C. C. Wei, G. S. Liang, and M. J. Wang*, "A comprehensive supply chain management system selection framework using fuzzy algorithm", *International Journal of Project Management*, 25, 627-636, (2007). [EI]
35. M. J. Chung, H. F. Lin, and M. J. Wang*, "The development of sizing systems for elementary and high school students", *International Journal of Industrial Ergonomics*, 37, 706-711, (2007). [SCI]
36. C. H. Hsu, H. F. Lin, and M. J. Wang, "Developing female size chart for facilitating garment production", *Journal of the Chinese Institute of Industrial Engineers*, 24 (3), 245-251, (2007). [EI]
37. C. L. Lin, M. J. Wang*, and C. G. Drury, "Biomechanical, physiological and psychophysical evaluations of clean room boots", *Ergonomics*, 50 (4), 481-496, (2007). [SCI]
38. M. C. Chiu, and M. J. Wang*, "The effect of gait speed and gender on perceived exertion, muscle activity, joint motion of lower extremity, ground reaction force and heart rate during normal walking", *Gait and Posture*, 25, 385-392, (2007). [SCI]
39. M. C. Chiu, and M. J. Wang*, "Professional footwear evaluation for clinical nurses", *Applied Ergonomics*, 38, 142-147, (2007). [SCI]

40. M. J. Wang*, W. Y. Wu, S. L. Yang, and J. M. Lu, "Automated anthropomorphic data collection from 3D human models", *International Journal of Advanced Manufacturing Technology*, 32, 109-115, (2007). [SCI]
41. M. J. Wang*, C. L. Lin, Y. C. Shih, H. C. Chung, and H. Strasser, "Torque levels, subjective discomfort, and muscle activity of four commercially available screwdrivers under static and dynamic work conditions", *Perceptual and Motor Skills*, 102 (2), 291-301, (2006). [SSCI]
42. Y. C. Shih, C. H. Chang, and M. J. Wang, "The effect of gender and lifting belt on the maximum lifting capability of one-lift", *Journal of the Chinese Institute of Industrial Engineers*, 23 (2), 166-173, (2006). [EI]
43. C. H. Hsu and M. J. Wang*, "Using decision tree based data mining to establish a sizing system for the manufacture of garments", *International Journal of Advanced Manufacturing Technology*, 26 (5-6), 669-674. (2005). [SCI]
44. C. C. Wei, C. F. Chien, and M. J. Wang*, "An AHP-based approach to ERP system selection", *International Journal of Production Economics*, 96, 47-62, (2005). [SCI]
45. C. H. Hsu and M. J. Wang, "Using innovative technology to establish sizing systems", *International Journal of Innovation and Learning*, 2 (3), 233-245, (2005).
46. M. J. Wang*, H.C. Chung, and H.C. Wu, "Evaluating the 300 mm wafer handling task in semiconductor industry", *International Journal of Industrial Ergonomics*, 34, 459-466, (2004). [SCI]
47. M. J. Wang*, and L. Huang, "Evaluating the eye fatigue problem in wafer manufacturing", *IEEE Transactions on Semiconductor Manufacturing*, 17 (3), 444-447, (2004). [SCI]
48. Y. C. Lin, M. J. Wang*, and E. M-y Wang, "The comparisons of anthropometric characteristics among four people in East Asia", *Applied Ergonomics*, 35, 173-178, (2004). [SCI]
49. C. C. Wei, and M. J. Wang*, "A comprehensive framework for selecting an ERP system", *International Journal of Project Management*, 22 (2), 161-169, (2004). [EI]
50. W. H. Hsu, and M. J. Wang*, "Physical discomforts among visual display terminal users in a semiconductor manufacturing company: a study of prevalence and relation to psychosocial and physical/ergonomic factors", *Journal of American Industrial Hygiene Association*, March/April, 64 (2): 276-282, (2003). [SCI]
51. M. J. Wang*, H. C. Chung, and H. C. Wu, "The evaluation of manual FOUP handling tasks in 300mm wafer fab", *IEEE Transactions on Semiconductor Manufacturing*, 16 (3), 551-554, (2003) [SCI]
52. Y. C. Shih, and M. J. Wang, "Evaluating the effects of gender, hand, exerting height, and

- gloves on peak pushing and pulling strength”, *Asian Journal of Ergonomics*, 3 (2), 59-66, (2002).
53. M. J. Wang*, E. M-y Wang, and Y. C. Lin, “The anthropometric database for children and young adults in Taiwan”, *Applied Ergonomics*, 33, 583-585, (2002). [SCI]
 54. M. J. Wang*, W. Y. Wu, and C. C. Hsu, “Automated post bonding inspection y using machine vision techniques”, *International Journal of Production Research*, 40 (12), 2835-2848, (2002). [SCI]
 55. H. J. Wu, and M. J. Wang*, “Relationship between maximum acceptable work time and physical workload”, *Ergonomics*, 45 (4), 280-289, (2002). [SCI]
 56. M. J. Wang, E. M. Y. Wang, Y. C. Lin, and Y. Z. Lin, “Computer aided VDT workstation design based on the anthropometric data of Taiwanese workers”, *Journal of Ergonomics Study*, 4 (1), 47-56, (2002).
 57. Y. C. Shih, M. J. Wang, and S. L. Fu, “Evaluating height effect on isometric lifting capability of young people in Taiwan”, *Journal of the Chinese Institute of Industrial Engineers*, 19 (3), 26-30, (2002). [EI]
 58. H. J. Wu, and M. J. Wang*, “Establishing a prediction model of maximal oxygen uptake for young adults in Taiwan”, *Journal of the Chinese Institute of Industrial Engineers*, 19 (3), 1-6, (2002). [EI]
 59. H. C. Chung, and M. J. Wang*, “Ergonomics intervention for wafer-handling task in semiconductor manufacturing industry”, *Human Factors/ Ergonomics in Manufacturing*, 12 (3), 297-305, (2002). [SCI]
 60. Y. H. Wu, J. Y. Lin, Y. C. Lin., and M. J. Wang*, “Evaluating the use of 3-D whole body scanner to collect anthropometric data for the development of automated tailoring system”, *Journal of Industrial Engineering Design*, 4 (2), 4-6, (2002).
 61. W. H. Hsu, M. J. Wang*, and M. Kumashiro, “Deviations from VDT workstation preferred settings and physical discomforts”, *International Journal of Industrial Engineering-Theory Application and Practice*, 8 (4), 339-346, (2001). [SCI]
 62. H. C. Chung, and M. J. Wang*, “The effects of container design and stair climbing on maximal acceptable lift weight, wrist posture, psychophysical, and physiological responses in wafer-handling tasks”, *Applied Ergonomics*, 32, 593-598, (2001). [SCI]
 63. H. J. Wu, and M. J. Wang*, “Determining the maximum acceptable work duration for high-intensity work”, *European Journal of Applied Physiology*, 85, 339-344, (2001). [SCI]
 64. D. Huang, T. Chen, and M. J. Wang*, “A fuzzy set approach for event tree analysis”, *Fuzzy Sets and Systems*, 118, 153-168, (2001). [SCI]
 65. C. H. Chang, and M. J. Wang*, “Evaluating the effects of activation mode, torque, and horizontal distance on hand-arm response while operating pneumatic screw drivers”,

International Journal of Industrial Ergonomics, 28, 171-179, (2001). [SCI]

66. W. H. Hsu, and M. J. Wang, "VDT Workstation Preferred Settings: Comparison between PC and CAD Workstation", *Journal of the Chinese Institute of Industrial Engineers*, 18 (5), 31-38, (2001). [EI]
67. M. J. Wang*, H. C. Chung, and H.C. Chen, "The effect of handle angle on MAWL, wrist posture, RPE, and heart rate", *Human Factors*, 42 (4), (2000). [SCI]
68. W. H. Hsu, and M. J. Wang*, "The effects of ergonomics training on VDT workstation preferred setting", *Asian Journal of Ergonomics*, 1, 43-55, (2000).
69. C. H. Chang, and M. J. Wang*, "Evaluating factors that influence hand-arm stress while operating electric screwdrivers", *Applied Ergonomics*, 31, 283-289, (2000). [SCI]
70. J. M. Zhang, R. M. Lin, and M. J. Wang*, "The development of an automatic post sawing inspection system using computer vision techniques", *Computers in Industry*, 40 (1), 51-60, (1999). [SCI]
71. T. Chen, and M. J. Wang*, "A fuzzy set approach for yield learning modeling in semiconductor manufacturing", *IEEE Transactions on Semiconductor Manufacturing*, 12 (2), 252-258, (1999). [SCI]
72. W. Y. Wu, and M. J. Wang, "Two-dimensional object recognition through two-stage string matching", *IEEE Transactions on Image Processing*, 8 (7), 978-981, (1999). [SCI]
73. C. H. Chang, M. J. Wang*, and S. C. Lin, "Evaluating the effects of wearing gloves and wrist support on hand-arm stress of operating pneumatic screw drivers", *International Journal of Industrial Ergonomics*, 24, 473-481, (1999). [SCI]
74. E. M-y. Wang, M. J. Wang, W. Y. Yeh, Y. C. Shih, and Y. C. Lin, "Development of anthropometric work environment for Taiwanese workers", *International Journal of Industrial Ergonomics*, 23, 3-8, (1999). [SCI]
75. C. T. Lin, and M. J. Wang*, "Human robot interaction in an aircraft wing drilling system", *International Journal of Industrial Ergonomics*, 23, 83-94, (1999). [SCI]
76. T. Chen, and M. J. Wang*, "Forecasting methods using fuzzy concepts", *Fuzzy Sets and Systems*, 105, 339-352, (1999). [SCI]
77. T. Chen, and M. J. Wang*, "A fuzzy production planning model for a semiconductor fabrication plant", *International Journal of Operations and Quantitative Management*, 4 (3), 277-291, (1998).
78. M. J. Wang*, A. Garg, Y.C. Chang, Y.C. Shih, W.Y. and C.L. Lee, "The relationship between low back discomfort ratings and the NIOSH lifting index", *Human Factors*, 40 (3), 509-515, (1998). [SCI]
79. C. H. Chang, and M. J. Wang*, "Evaluating hand-arm response at standing and sitting

- postures while operating in-line and pistol grip pneumatic screw drivers”, *Journal of the Chinese Institute of Industrial Engineers*, 5 (5), (1998). [EI]
80. R. M. Lin, J. L. Chen, and M. J. Wang, “Automatic wafer surface inspection using gray level intensity method”, *Journal of Quality*, 5, 53-68, (1998).
 81. M. J. Wang, H.W. Wu, C.H. Chang, W. Y. Yeh, and C. L. Lee, “Applying human factors principles to the design and evaluation of meat processing knives”, *Journal of Occupational Safety and Health*, 6 (4), 15-29, (1998). (in Chinese)
 82. C. T. Lin, and M. J. Wang*, “Hybrid fault tree analysis using fuzzy concept”, *Reliability Engineering and System Safety*, 58 (3), 205-213 (1997). [SCI]
 83. Y. C. Shih, M. J. Wang*, and C.-H. Chang, “The effect of valve handwheel type, operating plane and grasping posture on peak torque strength of young men and women”, *Human Factors*, 39 (3), 489-496, (1997). [SCI]
 84. Y. C. Shih, and M. J. Wang*, “The influence of gloves during maximum volitional torque exertion of supination”, *Ergonomics*, 40 (4), 465-475, (1997). [SCI]
 85. M. J. Wang*, W. Y. Wu, and C. J. Liu, “IC code inspection by similarity matching technique”, *International Journal of Industrial Engineering: Applications and Practice*, 4 (1), 34-41, (1997). [SCI]
 86. M. J. Wang*, and Y. J. Lee, “Applying AHP approach to evaluate human’s sensitivity to chromatic light”, *Behavior and Information Technology*, 16 (6), 348-358, (1997). [SCI]
 87. Y. C. Shih, and M. J. Wang*, “Evaluating effects of interface factors on the torque exertion capabilities of operating hand wheels”, *Applied Ergonomics*, 28, 375-382, (1997). [SCI].
 88. M. J. Wang*, S. C. Lin, and C. G. Drury, “Training for strategy in visual search”, *International Journal of Industrial Ergonomics*, 20, 101-108, (1997). [SCI]
 89. Y. C. Shih, and M. J. Wang*, “Psychophysical evaluation of handle diameter and handle angles”, *International Journal of Industrial Ergonomics*, 19, 437-444, (1997). [SCI]
 90. M. J. Wang*, G. H. Huang, W. Y. Yeh, and C. L. Lee, “Manual lifting task risk evaluation using computer vision system”, *Computers Industrial Engineering*, 31 (3/4), 657-670, (1996). [SCI]
 91. M. J. Wang, S. H. Yang, C. H. Chang, W. Y. Yeh and C. Y. Chen, “Evaluating the relationship between operating hand tools and cumulative trauma disorders-using an electrical factory as an example”, *Journal of Occupational Safety and Health*, 4 (2), 1-11, (1996). (in Chinese)
 92. Y. C. Shih, S. L. Fu, and M. J. Wang, “The effect of hand posture on grip, pinch and torque exertions capabilities of hand”, *Journal of Occupational Safety and Health*, 4 (1), 43-57, (1996). (in Chinese).

93. Y. C. Shih, and M. J. Wang*, "Hand/tool interface effects on human torque capability", *International Journal of Industrial Ergonomics*, 18, 205-213, (1996). [SCI]
94. Y. C. Shih, and M. J. Wang*, "The effects of weight levels and gloves on the ability of discriminating weight difference", *Ergonomics*, 39 (5), 729-739, (1996). [SCI]
95. L. K. Huang, and M. J. Wang*, "Efficient shape matching through model-based shape recognition", *Pattern Recognition*, 28 (4), 207-215, (1996). [SCI]
96. W. Y. Wu, M. J. Wang*, and C. M. Liu, "Automated inspection of printed circuit boards through machine vision", *Computers in Industry*, 1109, 103-111, (1996). [SCI]
97. L. K. Huang, and M. J. Wang*, "An intelligent inspection system for sheet metal parts", *International Journal of Industrial Engineering; Applications and Practice*, 2 (2), 79-88, (1995). [SCI]
98. Y. C. Shih, S. L. Fu, and M. J. Wang, "The effect of gloves on force exertions in the workplace", *Journal of Occupational Safety and Health*, 3 (1), 1-16, (1995). (in Chinese)
99. M. J. Wang*, W. Y. Wu, L. K. Huang, and D. M. Wang, "Corner detection using bending value", *Pattern Recognition Letters*, 16, 575-583, (1995). [SCI]
100. M. J. Wang*, and T. C. Chang, "Tool steel materials selection under fuzzy environment", *Fuzzy Sets and Systems*, 72 (3), 263-270, (1995). [SCI]
101. T. Chen, and M. J. Wang*, "Applying fuzzy set approach to signal detection theory", *Fuzzy Sets and Systems*, 72 (1), 39-49, (1995). [SCI]
102. L. K. Huang, and M. J. Wang*, "Image thresholding by minimizing the measure of fuzziness", *Pattern Recognition*, 27 (4), 41-51, (1995). [SCI]
103. G. S. Liang, and M. J. Wang*, "Benefit/cost analysis using fuzzy concept", *The Engineering Economist*, 40 (4), 359-376, (1995). [EI]
104. S. Batra, L. A. Bronkema, M. J. Wang, and R. R. Bishu, "Glove attributes: Can they predict performance", *International Journal of Industrial Ergonomics*, 14, 201-209, (1994). [SCI]
105. T. S. Liou, and M. J. Wang*, "Subjective assessment of mental workload--a fuzzy linguistic multi-criteria approach", *Fuzzy Sets and Systems*, 62, 155-165, (1994). [SCI]
106. C. M. Liu, M. J. Wang*, and Y. S. Pang, "A MCDL model for human decision making", *European Journal of Operational Research*, 76 (3), 466-480, (1994). [SCI]
107. W. Y. Wu, and M. J. Wang*, "Elliptical object detection by using its geometrical properties", *Pattern Recognition*, 24 (10), 1499-1509, (1993). [SCI]
108. G. S. Liang, and M. J. Wang*, "Personnel selection using fuzzy MCDM algorithm", *European Journal of Operational Research*, 78 (1), 22-33, (1994). [SCI]

109. M. J. Wang*, S.C. Chang, C.M. Liu, and W.Y. Wu, "A new edge detection method through template matching", *International Journal of Pattern Recognition and Artificial Intelligence*, 8 (4), 899-917, (1993). [SCI]
110. M. J. Wang, and C.C. Huang, "An automated system for evaluating safety in manual material handling", *Journal of Occupational Safety and Health*, 1 (2), 39-45, (1993).
111. G. S. Liang, and M. J. Wang*, "A fuzzy multi-criteria decision-making approach for robot selection", *Robotics and Computer-Integrated Manufacturing*, 10 (4), 267-274, (1993). [SCI]
112. W. Y. Wu, and M. J. Wang*, "Detecting the dominant point by the curvature-based polygonal approximation", *Computer Vision, Graphics, and Image Processing*, 55 (2), 79-88, (1993). [SCI]
113. M. J. Wang*, and H. Lin, "A fuzzy multiple -criteria decision making method for control -display selection in process control", *Journal of the Chinese Institute of Industrial Engineers*, 10 (2), 113-120, (1993). [EI]
114. G. S. Liang, and M. J. Wang*, "Fuzzy fault tree analysis using failure possibility", *Microelectronics and Reliability*, 33 (4), 583-597, (1993). [SCI]
115. G. S. Liang, and M. J. Wang*, "Evaluating human reliability using fuzzy relation", *Microelectronics and Reliability*, 33 (1), 63-80, (1993). [SCI]
116. W. Y. Wu, and M. J. Wang*, "Detecting the dominant points by the curvature-based polygonal approximation", *CVGIP-Graphical Models and Image Processing*, 55(2), 79-88, (1993). [SCI]
117. C. M. Liu, M. J. Wang, J. M. Chen and Y. S. Pang, "A fuzzy logic approach to analyze assemblies", *Journal of the Chinese Institute of Industrial Engineers*, 9 (1), 51-70, (1992). [EI]
118. C. M. Liu, M. J. Wang, H. C. Wang, and Y. S. Pang, "A new fuzzy inference algorithm integrating exact-deduction and compositional rule of inference", *The Chinese Journal of Management Science*, 9 (1), 1-30, (1992).
119. W. Y. Wu, M. J. Wang*, and C. M. Liu, "Performance evaluation of some noise reduction methods", *Computer Vision Graphics and Image Processing: Graphical Model and Image Processing*, 54 (2), 134-146, (1992). [SCI]
120. T. S. Liu, and M. J. Wang*, "Ranking fuzzy numbers with integral value", *Fuzzy Sets and Systems*, 49 (3), 247-255, (1992). [SCI]
121. G. S. Liang, and M. J. Wang*, "Personnel placement in fuzzy environment", *Computers and Operations Research*, 19 (2), 107-121, (1992). [SCI]
122. T. S. Liou, and M. J. Wang*, "Fuzzy weighted average: an improved algorithm", *Fuzzy Sets and Systems*, 49 (3), 307-315, (1992). [SCI]

123. M. J. Wang, and S. L. Hwang, "Evaluation of Chinese road sign design", *Journal of the Chinese Institute of Industrial Engineers*, 9 (1), 71-75, (1992). [EI]
124. M. J. Wang*, C. M. Liu, and Y.C. Shih, "A method for determining the difference threshold of judging weight difference in material handling", *International Journal of Industrial Ergonomics*, 8, 335-343, (1991). [SCI]
125. G. S. Liang, and M. J. Wang*, "A fuzzy multi-criteria decision- making method for facility site selection", *International Journal of Production Research*, 29 (11), 2313-2330, (1991). [SCI]
126. W. S. Ma, M. J. Wang*, and F.S. Chou, "Evaluating the mechanical injury problem in wood-bamboo furniture manufacturing industry", *International Journal of Industrial Ergonomics*, 7, 347-355, (1991). [SCI]
127. M. J. Wang*, C. M. Liu, and Y. S. Pan, "Computer-aided panel layout using a multi-criteria heuristic algorithm", *International Journal of Production Research*, 29 (6), 1215-1233, (1991). [SCI]
128. T. S. Liou, and M. J. Wang*, "Rotating-shift system vs. fixed-shift system", *International Journal of Industrial Ergonomics*, 7, 63-70, (1991). [SCI]
129. M. J. Wang*, and H. P. Teh, "A knowledge based system for controls-displays selection", *Decision Support Systems*, 7 (2), 185-191, (1991). [SCI]
130. M. J. Wang*, and C. G. Drury, "A study of validity evaluation of two inspection selection tools", *Journal of the Chinese Institute of Industrial Engineers*, 8 (1), 69-79, (1991). [EI]
131. M. J. Wang*, H. P. Singh, and W. V. Huang, "A decision support system for robot selection", *Decision Support Systems*, 7 (3), 273-283, (1991). [SCI]
132. M. J. Wang*, J. Sharit, and C.G. Drury, "Fuzzy set evaluation of inspection performance", *International Journal of Man-Machine Studies*, 35, 587-596 (1991). [SCI]
133. C. M. Liu, M. J. Wang, Y. S. Pan, and Y. C. Shih, "Management and evaluation of research project", *Management Science Review*, 2, December, 21-47, (1990). (in Chinese).
134. M. J. Wang*, "A case study of epidemiological surveillance in a shoe manufacturing company - results and interventions", *Journal of the Chinese Institute of Industrial Engineers*, 7 (1), 43-51, (1990). [EI]
135. M. J. Wang*, and C. G. Drury, "A method for evaluating inspector's performance difference and job requirements", *Applied Ergonomics*, 20(3), 181-190, (1989). [SCI]

B. Book

1. M. J. Wang, M. Y. Wang, and Y. C. Lin, *Anthropometric Data Book for the Chinese People in Taiwan*, Ergonomics Society of Taiwan, 2002. (ISBN 957-30149-1-2) (600 page-hard copy and CD-ROM)

C. Book Chapters

1. Y. L. Lin, M. J. Wang, and B. Wang, "Body dimension measurement using a depth camera", In Yamamoto S. (ed.), *New Ergonomics Perspective*, CRC Press (Taylor & Francis Group), 2015.
2. C. Y. Wu, and M. J. Wang, "A scoliosis survey in children with overweight at age 6 to 13 year old". In Shih, Y. C. and Liang, S. F. (eds.), *Bridging Research and Good Practices towards Patient Welfare*, CRC Press (Taylor & Francis Group), 2015.
3. Y. C. Lee, D. C. Chen, M. J. Wang, and S. J. Chen, "Innovative insole design and development". In C. F. Chien and C. C. Wu (eds.), *Industrial Engineering and Management Cases*, CIIE, 2014.
4. C. Y. Wu, H. R. Huang, and M. J. Wang, "The ergonomics evaluation of three front baby carriers", *Advances in Ergonomics in Design, Usability & Special Populations: Part III*, 2014.
5. C.-Y. Wu, T.-H. Chen, and M.-J. Wang, "Anthropometric and Scoliosis Survey for Children with Physical and Mental Disabilities". *Advances in Human Aspects of Healthcare*. V. G. Duffy (ed), CRC Press: 583-591, 2012.
6. Y. C. Lee, G. Lin and M. J. Wang, "Evaluating arch dimensions differences by using 3-D foot scanning data", in Shih, Y.C. and Liang, S. F. (eds.), *Ergonomics in Asia: Development, Opportunities, and Challenges*, CRC Press (Taylor & Francis Group), 223-226, 2011.
7. B. W. Hsu, and M. J. Wang, "Electroencephalographic study of visual fatigue", in Kumashiro M. (ed.), *Ergonomics Trends from the East*, CRC Press (Taylor & Francis Group), 2010.
8. J. M. Lu and M. J. J. Wang, "Digital human modeling and scanner-based anthropometry", Duffy, V. G. (ed.), *Handbook of Digital Human Modeling: Research for Applied Ergonomics and Human Factors Engineering*, CRC Press (Taylor & Francis Group), 2008.
9. M. J. Wang, C. L. Lin, Y. C. Shih, and H. Strasser, "The Effect of Screwdriver Handle Design and Blade Length on Muscle Activity and Torque MVC", H. Strasser (eds.), *Assessment of the Ergonomic Quality of Hand-Held Tools and Computer Input Devices*, 191-195, 2007.
10. M. J. Wang, C. L. Lin, Y. C. Shih, H. C. Chung, and H. Strasser, "Torque Levels, Subjective Discomfort, and Muscle Activity Associated with Four Commercially Available Screwdrivers Under Static and Dynamic Work Conditions", H. Strasser (eds.),

Assessment of the Ergonomic Quality of Hand-Held Tools and Computer Input Devices,183-190, 2007.

11. M. J. Wang, M.Y. Wang, and Y.C. Lin, "The anthropometric data of the aging workers in Taiwan", Kumashiro, M. (ed.), *Aging and Work*, Taylor and Francis, 2002.
12. Y. C. Shih, C. H. Chang, and M. J. Wang, "Could lifting belt increase the capability of maximum acceptable weight of one-lift while lifting asymmetrically at different height shifts", Wang, S. and Zhang K. (eds.), *Occupational Ergonomics*, 241-243, 2001.
13. A. Mital, M. Ayoub, S. Kumar, K. Landau, and M. J. Wang, (Editors in Chief), "Industrial and Occupational Ergonomics: User's Encyclopedia", 1999, (ISBN 0-9654506-0-0) (CD-ROM)
14. M. J. Wang, and H. C. Wu, "The relationship between maximum acceptable work time and physical workload", Wang, S. and Zhang K. (eds.), *Occupational Ergonomics*, 106-108, 2001.
15. M. J. Wang, Y. C. Chang, and Y. C. Shih, "Applying the revised NIOSH lifting guide to evaluate the MMH jobs in Taiwan", A. Mital, H. Krueger, S. Kumar, M. Menozzi, J. E. Fernandez (eds.) *Advances in Occupational Ergonomics and Safety*, 351-355, 1996.
16. W. Y. Wu and M. J. Wang, "Detecting the dominant points by the curvature-based polygonal approximation, L. O'Gorman and R. Kasturi (eds.), *Dominant Image Analysis*, IEEE Computer Society Press, 1995.
17. J. L. Wick, C. G. Drury, and M. J. Wang, "Ergonomics and the return -to -work process", A. C. Bittner J (ed.) *Advances in Industrial Ergonomics and Safety VII*, 1995.
18. Y. C. Shih and M. J. Wang, "Evaluating the factors affecting MVTC in valve operation", S-Robertson (ed.), *Contemporary Ergonomics*, 1995.
19. Y. C. Shih and M. J. Wang, "The effects of weight level and gloves on the discriminability of weight difference" F. Aghazadeh (ed.) *Advances in Industrial Ergonomics and Safety VI*, 607-612, 1994.
20. M. J. Wang and S. C. Lin, "Evaluating the performance of soldering point Inspection", in Nielsen and Jorgensen (eds.), *Advances in Industrial Ergonomics and Safety*, 1993.
21. M. J. Wang and G. C. Hwang, "An evaluation of visual search strategy under different product characteristics", in S. Kumar (ed.), *Advance in Industrial Ergonomics and Safety IV*, 1359-136| 1992.
22. W.S. Ma, M.J. Wang, and F. Chou, "Scenario analysis of wood-bamboo furniture manufacturing accidents" in M. Kumashiro and E. D. Megaw (eds.) *Toward Human Works*, 80-84, 1991.
23. M.J. Wang, "Effect of six didfferent kinds of gloves on grip strength" in M. Kumashiro and E. D. Megaw (eds.), *Toward Human Works*, 164-169, 1991.
24. T. S. Liu and M. J. Wang, "Job performance difference between two work-shift systems in an electronics factory" in W. Karwowski and S. R. Yates (eds.) *Advances in Industrial Ergonomics and Safety III*, 653-660, 1991.
25. M. J. Wang, C. M. Liu, and Y. C. Shih, "Evaluating the difference thresholds in material

- handling” in W. Karwowski, and S. R. Yates (eds.) *Advances in Industrial Ergonomics and Safety III*, 301-308, 1991.
26. M. J. Wang and H. P. Teh, “A knowledge based system for controls- display selection”, in A. Mitel (ed.), *Advances in Industrial Ergonomics and Safety I*, 945-952, 1989.
 27. M. J. Wang and C. G. Drury, “A method of evaluating job mental demands in industrial inspection”, in S. Asfour (ed.), *Trends In Ergonomics IV*, 88-96, 1987.
 28. M. J. Wang, J. Sharit, and C. G. Drury, “An application of fuzzy set theory for evaluation of human performance on an inspection task”, in Karwowski, W., and Mital, A (eds.) *Application of Fuzzy Set Theory in Human Factors*, 257-268, 1986.

D. Conference Papers

1. Y. C. Lee, M. Kouchi, M. Mochimaru, M. J. Wang, “The comparison of Taiwanese and Japanese female foot dimensions”, CIIE, 2014.
2. C. Y. Wu, H. R. Huang, and M. J. Wang, “Exploring the attractive image factors of baby carriers”, 2014 International Conference on Beyond Kansei Engineering and Design, Tainan, Taiwan, 2014.
3. M. J. Wang, B. W. Hsu, and C. Y. Chen, “Evaluating mental workload measures in performing multiple task management”, The 15th Asia Pacific Industrial Engineering and Management Systems (APIEMS 2014), Jeju, Korea, 2014.
4. C. Y. Wu, H. R. Huang, and M. J. Wang, “The ergonomics evaluation of three front baby carriers”, AHFE International 2014.
5. S. H. Liu, T. H. Chen and M. J. Wang, “The Study Of The Best Shift Work System In Petro-Chemical Industry”, the 13th Chinese Institute of industrial Engineers Conference (CIIE'13) 2013.
6. C. H. Wang, S. C. Chang and M. J. Wang, “Developing an Automobile Maintenance Expert System Using Augmented Reality”, The 14th Asia Pacific Industrial Engineering and Management Systems (APIEMS 2013), Cebu, Philippines, 2013.
7. C. C. Kuo, T. C. T and M. J. Wang, “Using 3D Scanning to Classify Taiwanese Male Head Shapes”, The 14th Asia Pacific Industrial Engineering and Management Systems (APIEMS 2013), Cebu, Philippines, 2013.
8. C. Y. Hsiao, Y. J. Liu and M. J. Wang, “Usability Evaluation Of The Touch Screen User Interface Design”, The 15th International Conference on Human-Computer Interaction, Mirage Hotel, Las Vegas, Nevada, USA, 2013.
9. C. Y. Wu, T. H. Chen, and M. J. Wang, “Anthropometry and scoliosis survey for school children with mental and physical disabilities”, AHFE International 2012.
10. Y. C. Lee, G. Lin and M. J. Wang, “Evaluating insole design with joint motion, plantar pressure and rating of perceived exertion measures”, The 18th Congress of the International Ergonomics Association, Recife, Brazil, 2012.
11. M. W. Riley, Y. T. Hung, M. J. Wang, Y. L. Lin, and J. C. Blunk, “Interactions between task repetition and psychosocial factors”, The 18th Congress of the International Ergonomics Association, Recife, Brazil, 2012.

12. Y. C. Lee, G. Lin, and M. J. Wang, "Evaluating the differences among the four foot dimension Measurement Methods", International Conference on Instrumentation, Measurement, Circuits and Systems (IMCAS '11), 2011.
13. G. Lin, Y. C. Lee, and M. J. Wang, "Designing arch support using 3D scanning foot data", Ergonomics Society of Taiwan Annual Conference, 2011.
14. Y. C. Li, and M. J. Wang, "Evaluating the gender effect on foot dimensions", Proceedings of the 9th Pan-Pacific Conference on Occupational Ergonomics, 2010.
15. Y. L. Lin, and M. J. Wang, "Constructing 3D human model from 2D images", Proceedings of the 17th International Conference on Industrial Engineering and Engineering Management, 2010.
16. T. H. Chen, C. L. Lin and M. J. Wang, "The evaluation of double-layers clothing on clothing microclimate, physiological responses and subjective comfort", AHFE International 2010.
17. M. C. Chung, C. H. Chang, C. L. Lin and M. J. Wang, "A comparison of different shoe insoles in gait performance", AHFE International 2010.
18. L. J. Twu, C. L. Lin and M. J. Wang, "The effect of local illumination on light-on test inspection in a TFT-LCD plant", AHFE International 2010.
19. C. L. Lin, Y. T. Hung, M. J. Wang and J. P. Chen, "The investigation of low back problems among home delivery drivers", AHFE International 2010.
20. C. Y. Wu, C. L. Lin and M. J. Wang, "The effect of backpack weight on gait parameters", AHFE International 2010.
21. C. L. Lin, and M. J. Wang, "The effect of display type and video game type on visual fatigue and mental workload", International Conference on Industrial Engineering and Operation Management 2010.
22. Y. L. Lin, and M. J. Wang, "3D body shape deformation from front and side images", APIEMS, 2009.
23. Y. T. Hung, C. L. Lin, M. J. Wang, and C. P. Chen, "Investigating the low back discomfort problems in home delivery drivers", CIIE 2009.
24. H. Strasser, M. J. Wang, M. C. Chiu, O. Mueller, "Physiological Costs and Hearing Risks Associated with Chinese Classical Music and Energy-Equivalent Sound Exposures with Differing Frequency Composition", IEA 2009.
25. J. M. Lu, M. J. J. Wang, R. Mollard, P.Y. Hennion, C.L. Lin, "Body shape analysis using 3D scanning data", IEA 2009.
26. B. W. Hsu, M. J. J. Wang, "Visual fatigue evaluation of PDP, LCD and CRT TV", IEA 2009
27. M. J. Chung, M. J. Wang, "The effects of walking speed and gender on plantar pressure parameters", IEA 2009.
28. C. F. Kuo, M. J. Wang, "Motion Generation from Semantics", IEA 2009.
29. B. W. Hsu and M. J. Wang, "Electroencephalographic Study of Visual Fatigue", The 1st East Asian Ergonomics Federation Symposium. 2008.
30. Y. Y. Kang, M. J. Wang and C. L. Lin, "Evaluating the Effect of Display Medium on Visuospatial Ability and Mental Workload", The 1st East Asian Ergonomics Federation Symposium. 2008.
31. Y. L. Lin and M. J. Wang, "Automatic Feature Extraction from Front and Side Images", The IEEE International Conference on Industrial Engineering and Engineering Management. 2008.

32. C.L. Lin, Y. L. Wei and M. J. Wang, "Ergonomics Evaluation of Cart Pushing and Pulling in TFT-LCD Industry", The 2nd International Conference on Applied Human Factors and Ergonomics. 2008.
33. C.L. Lin, M.J. Wang and Y.S. Chen, "Evaluation of perceived discomfort in repetitive arm reaching and holding task", The 2nd International Conference on Applied Human Factors and Ergonomics. 2008.
34. C.L. Lin, M.J. Wang and F.S. Chen, "The strategy of improving SEM inspection performance and eye-fatigue problems", The 2nd International Conference on Applied Human Factors and Ergonomics. 2008.
35. M. J. Chung, M.J. Wang H. Bubb, The Comparison of Foot Dimensions and Changes of Foot Size with Weight Bearing in School Children with and without Flatfoot. Proceeding of the Nordic Ergonomic Society, Iceland 2008
36. S. W. Chang, M. J. Wang, and N. J. Delleman, Effects of the angle of approaching a spot for a manufacturing action on whole-body orientation and position, Technical paper 2007-01-2481, SAE International, Detroit, Michigan, 2007.
37. J. M. Lu, M. J. Chung, Y. L. Lin, L. L. Twu, M. S. Chen, and M. J. Wang, Analysis and improvement of musculoskeletal disorders for TFT-LCD operators, International Conference of Industrial Hygiene and Occupational Medicine, 2007.
38. M. J. Chung, J. P. Chen JP, T. H. Chen, C. Y. Wu, M. J. Wang, The study of anthropometric data for school children in Taiwan. Proceeding of the 8th Asian Pacific Industrial Engineering and Management Systems, Taiwan, 2007.
39. H.F Lin, C. H. Hsu, and M. J. Wang, "An application of data mining technique in Engineering to facilitate production management of garments", proceedings of the 11th WSEAS International Conference on Computers, 2007.
40. T. H. Chen , C. F. Fan, M. J. Wang, and M. C. Chiu, "The Effects of Noise Intensity and Frequency on Physiological Measures and Subjective Responses", The 36th International Congress and Exhibition on Noise Control Engineering. 2007.
41. M. C. Chiu, M. J. Wang, and H. Strasser, "The physiological cost of hearing of Chinese and European subjects exposed to noise and Chinese classical music", Inter-noise 2007.
42. M. J. Chung and M. J. Wang, "The effect of age and gender on joint flexibility", The 7th APIEMS, 2007.
43. M. J. Chung and M. J. Wang, "The Development of Sizing System for School Students", The 36th International Conference on Computers and Industrial Engineering. 2006.
44. Y. C. Lin, M. J. Wang, and T. Chen ,Establishing Calibration Models and Error Envelopes of a 3D Whole Body Scanning System, The 5th WSEAS International Conference on Instrumentation, measurement, circuits and systems, 2006.
45. F. S. Chen and M. J. Wang, "Evaluating the eye-fatigue problems of SEM inspectors", EST 2006.
46. C. R. Lee and M. J. Wang, "Evaluating the MSDs problems of fab maintenance engineers", EST 2006.
47. C. L. Lin, W. H. Hsu, M. J. Wang, "Posture and Biomechanics analysis of clean room operators", EST 2006.
48. C. L. Lin, M. J. Wang, C.G. Drury, Y.S. Chen, "Evaluation of perceived discomfort and muscle activity in arm reaching and holding task", IEA 2006.
49. C. M. Lu and M. J. Wang, "Automated landmark extraction from 3D whole body scanning data", IEA 2006.
50. C. L. Lin, and M. J. Wang, "The influence of different clean room boot design on physiological, biomechanical and psychophysical responses", CAES 2005.

51. C. H. Hsu and M. J. Wang, "Using data mining technique to establish sizing systems for the manufacturing of garments", The 33rd International Conference on Computers & Industrial Engineering, 2004.
52. M. J. Wang, W. Y. Wu, K. C. Lin and S. N. Yang, "Establishing anthropometric data from whole body scanner, The 5th APIEMS, 2004.
53. Y. C. Lin and M. J. Wang, "Error analysis of 3D scanning system", 04DHM-79, SAE 2004
54. S. W. Chang and M. J. Wang, "Digital workplace evaluation: using auto assembly as an example", HAAMAHA 2004.
55. C. F. Chang and M. J. Wang, "Interactive virtual evaluation for interface design", HAAMAHA 2004.
56. Y. Y. Kang, M. J. Wang, and R. Lin, "A study of E-book operation in usability and mental workload", HAAMAHA 2004.
57. B. W. Hsu and M. J. Wang, "Trackball evaluation under different task", Proceedings of CIIE 2003.
58. M. C. Chiu and M. J. Wang, "Evaluation of Working Shoes for Clinical Nurses", Proceedings of Asia Pacific Symposium on Safety, 2003
59. M. J. Wang, C. L. Lin, Y. C. Shih, H. C. Chung, H. Strasser, "The effect of screwdriver handle type and glove on subjective and objective responses", Proceedings of Asia Pacific Symposium on Safety, 2003
60. W. S. Hsu and M. J. Wang, "VDT workstation preferred settings: Effects of initial settings, monitor size and deviations", Proceedings of IEA 2003.
61. M. J. Wang, C. L. Lin, Y. C. Shih, and H. Strasser, "The effect of screwdriver handle and blade length on muscle activity and torque MVC", Proceedings of IEA 2003.
62. M. C. Chiu, M. J. Wang, C. W. Lu, S. M. Pan, and M. Kumashiro, "The work ability index and quality of life", Proceedings of IEA 2003.
63. M. J. Wang, Y. C. Lin, and W. Y. Wu, "The development of automated tailoring system using 3D scanning data", Proceedings of IEA 2003.
64. W. S. Hsu, M. J. Wang, and C. E. Shen, "Evaluations of adjustable and fixed keyboard trays based on personal preferred settings", Proceedings of IEA 2003.
65. M. J. Wang, W. Y. Wu, and K. C. Lin, "Recognizing landmarks in the whole body scanning model", Proceedings of the 17th International Conference on Production Research (ICPR-17), August 2003.
66. M. J. Wang, Y. C. Lin, and W. Y. Wu, The automated anthropometric data collection and evaluation from 3-D scanning human models, Proceedings of XVII Annual Conference of the International Society for Occupational Ergonomics & Safety (ISOES), 2003.
67. C. W. Lu, H. C. Liao, and M. J. Wang, "The relationship between sports and musculoskeletal disorders", Proceedings of the 2003 EST annual conference, 2003.
68. M. J. Wang, Y. Y. Lin, and C. L. Tsao, "Workload evaluation using EEG", Proceedings of the 2003 EST Annual Conference, 2003.
69. C. C. Wei and M. J. Wang, "Applying fuzzy set theory to ERP project selection", Annual Technology Management Conference, 2002.
70. C. C. Wei, M. J. Wang, C. F. Chien, "ERP project selection using the analytic hierarchy process", Proceedings of the Fourth Asia-Pacific Conference on Industrial Engineering and Management Systems, 2002.
71. M. J. Wang and C. C. Wei, "A multi-criteria model for ERP project selection", Proceeding of Computers and Industrial Engineering Conference, 2002.

72. M. J. Wang and C. L. Huang, "The evaluation of AEI/ADI eye-fatigue problems", Proceedings of the 2002 EST Annual Conference, 2002.
73. M. J. Wang and M. C. Chiu, "WAI evaluation for nurses", Proceedings of the 2002 EST Annual Conference, 2002.
74. M. J. Wang and H. C. Wu, The relationship between maximum acceptable work time and physical workload, The 6th Pan-Pacific Conference on Occupational Ergonomics, Beijing, 2001.
75. H. J. Chung and M. J. Wang, "Ergonomics Intervention in the Semiconductors Manufacturing Industry", Proceedings of Computer Aided Ergonomics 2001.
76. W. H. Hsu and M. J. Wang, "Deviation from VDT preferred settings and physical discomforts", Proceedings of the 5th Annual International Industrial Engineering-Theory, Applications, and Practice, Dec. 2000.
77. H. C. Wu and M. J. Wang, "The upper limit of continuous work duration for high intensity work", Proceedings of the 5th Annual International Industrial Engineering-Theory, Applications, and Practice, Dec. 2000.
78. Y. C. Shih, M. J. Wang, and S. L. Fu, "The effects of gloves and postures on peak pushing/pulling forces of young people in Taiwan", Proceedings of the 5th Annual International Industrial Engineering-Theory, Applications, and Practice, Dec. 2000.
79. H. C. Wu and M. J. Wang, "Establishing a prediction model of maximal oxygen uptake for Taiwanese adults", Proceedings of the 5th Annual International Industrial Engineering-Theory, Applications, and Practice, Dec. 2000.
80. M. J. Wang, E. M. Wang, and Y. C. Lin, "The establishment of anthropometric database in Taiwan", Proceeding of IEA 2000.
81. W. H. Hsu and M. J. Wang, "Physical discomfort among VDT users in a semi-conductor manufacturing company", Ergon-Axia, 2000.
82. S. J. Wu and M.J. Wang, "Acceptable workload and acceptable working time", Proceedings of CIIE, Dec 1999.
83. H. F. Lin and M. J. Wang, "The discomfort problems of using computers in elementary and high schools", Proceedings of CIIE, Dec. 1999.
84. W. H. Hsu and M. J. Wang, "The effect of ergonomic training on VDT workstation preferred settings", Proceedings HCI international 99, 1999.
85. W. H. Hsu and M. J. Wang, "The comparison of preferred settings between PC and CAD workstation", Proceedings HCI international 99, 1999.
86. M. J. Wang, E. M. Y. Wang, and Y. C. Lin, "Computer aided VDT workstation design based on anthropometric data of Taiwanese workers", Proceedings of Computer Aided Ergonomics, 1999.
87. H.C. Chung and M. J. Wang, "Evaluating the MAWL for the wafer handling tasks in semi-conductors manufacturing industry", Proceedings of the 4th Annual International Industrial Engineering-Theory, Applications, and Practice, Oct. 1999.
88. C. H. Chang and M. J. Wang, "Evaluating factors that influence hand-arm stress while operating electric screw drivers", Proceedings of Global Ergonomics, 1998.
89. C. H. Chang and M. J. Wang, "Evaluating factors that influence hand-arm stress while operating electric screw drivers", Proceedings of the 5th Pan-Pacific Conference on Occupational Ergonomics, 1998.
90. C. H. Chang and M. J. Wang, "Evaluating factors that influence hand-arm stress while operating electric screw drivers", Proceedings ASEAN Ergonomics 97, 257-262, 1997.
91. M. J. Wang, M. Y. Wang, and Y. C. Lin, "VDT workstation design based on

- anthropometric data of Taiwanese workers”, Proceedings of WWDU '97 Tokyo, 67-68, 1997.
92. C. H. Chang and M. J. Wang, “Evaluating factors that influence hand-arm stress while operating pneumatic screw drivers”, Proceedings IEA 97,
 93. Y. C. Shih, M. J. Wang, and C. H. Chang, “The effects of handle angle on maximum acceptable weight of lifting”, Proceedings of the 4th Pan-Pacific Conference on Occupational Ergonomics, 260-263, 1996.
 94. C. T. Lin and M. J. Wang, “Human robot interaction in an aircraft wing drilling system”, Proceedings of the 4th Pan-Pacific Conference on Occupational Ergonomics, 430-433, 1996.
 95. C. T. Lin and M. J. Wang, “Fault tree analysis in a human robot system”, Proceedings of the 4th Pan-Pacific Conference on Occupational Ergonomics, 561-564, 1996.
 96. E. M-y. Wang, M. J. Wang, W. Y. The, and Y. C. Shih, “Toward an ergonomic work environment: Anthropometry survey for Taiwan workers”, Proceedings of the 4th Pan-Pacific Conference on Occupational Ergonomics, 131-134, 1996.
 97. M. J. Wang, G. J. Huang, W. Y. Yeh, and C. L. Lee, “Manual lifting task risk evaluation using computer vision system”, Proceedings of 18th International Conference on Computer and Industrial Engineering China Machine Press, 1995.
 98. Y. C. Shih, S. L. Fu, and M. J. Wang, “The influences of gloves on the maximum volitional forces”, International Conference on Ergonomics in Occupational Safety and Health, 117-121, 1995.
 99. M. J. Wang and T. C. Chang, “Tool Steel Material selection through fuzzy multiple criteria decision making”, Proceeding of Expersys-94, 233-238, 1994.
 100. W. Y. Wu and M. J. Wang, “Two-dimensional object recognition by using the reciprocal of compactness”, Proceedings of the 7th IPPR Conference on Computer Vision, Graphics, and Image Processing Conference, 1994.
 101. S.C. Lin, S. L. Hwang, and M. J. Wang, “The effect of road sign design on driver's behavior”, '94 International Conference on Ergonomics in Safety and Health, 189-196, 1994.
 102. Y. C. Shih and M. J. Wang, “The effect of handle diameter and angle on human discriminability of weight difference”, '94 International Conference on Ergonomics in Safety and Health, 51-58, 1994.
 103. M. J. Wang, C. J. Liu, and W. Y. Wu, “Inspecting IC code using similarity matching”, Proceeding of the Sixth National Conference on Automation Technology, 642-647, 1993.
 104. W. Y. Wu and M. J. Wang, “Two-stage string matching for object recognition”, Proceedings of CIIE, 449-454, 1993.
 105. M. J. Wang, D. M. Wang, and W. Y. Wu, “A fast algorithm for corner detection”, Proceedings of CIIE, 642-647, 1993.
 106. T. S. Liou and M. J. Wang, “A new method of ranking fuzzy numbers”, The First National Symposium of Fuzzy Set Theory and Applications, 497-501, 1993.
 107. G. S. Liang and M. J. Wang, “Fuzzy cost and benefit analysis” The First National Symposium on Fuzzy Set Theory and Applications, 321-327, 1993.
 108. T. S. Liou and M. J. Wang, “Linguistic evaluation of mental workload”, The First National Symposium on Fuzzy Set Theory and Applications, 30-35, 1993.
 109. M. J. Wang and Y. C. Shih, “The effect of gloves on difference threshold of judging weight differences”, Proceeding of The International Ergonomics Association World Conference '93 Ergonomics on Material Handling, 1993.

110. G. S. Liang and M. J. Wang, "A fuzzy MCDM algorithm for personnel selection", *Proceeding of the Tenth International Conference on Multiple Criteria Decision Making*, Vol. III, 7, 1992.
111. T. S. Liou and M. J. Wang, "Multiple criteria decision making with interval weights", *Proceedings of the Tenth International Conference on Multiple Criteria Decision Making*, Vol. II, 111-116, 1992.
112. G. S. Liang and M. J. Wang, "Evaluating human reliability using fuzzy relation", *Proceedings of International Conference on Human Factors in Nuclear Power Plants*, 9-13, 1992.
113. G. S. Liang and M. J. Wang, "Human reliability evaluation using fuzzy concept", *Proceedings of CII- Annual Conference*, 398-403, 1991.
114. L.K. Huang, W.Y. Wu, and M. J. Wang, "A simple method of locating circular object", *Proceeding of the 4th IPPR Conference on Computer Vision, Graphics and Image Processing*, 238-242, 1991.
115. M. J. Wang, T. S. Shih, K. C. Huang, Y. J. Lee, and C. F. Chen "Surveillance of repetitive trauma problems in electronic industry" *Proceedings of the 1990 Occupational Safety and Hygiene Conference* 188-202, 1990.
116. W. Y. Wu, M. J. Wang, and C. M. Liu, "An automated inspection system for printed circuit boards", *Proceedings of CII- Annual Conference*, 201-210, 1990.
117. C. M. Liu, M. J. Wang, and Y.S. Pang, "A multiple criteria linguistic model" *Proceedings of CIIE*, 19-28, 1990.
118. C. M. Liu, M. J. Wang, and J. M. Chen, "An expert system for the automatic assembly process", *Proceeding of IE- Conference on Human Factors in Design for Manufacturability and Process Planning*, Honolulu, Hawaii, 213-220, 1990.
119. M. J. Wang, C. M. Liu, and Y. S. Pan, "Compute -aided panel layout using multiple-criteria heuristic algorithm", *Proceeding of IE- Conference of Human Factors in Design for Manufacturability and Process Planning*, Honolulu, Hawaii, 483 - 488, 1990.
120. Y. S. Peng, Y. T. Shih, C. M. Liu, and M. J. Wang, "Method of managing and evaluating research projects", *Proceeding of CIIE*, 9 -99, 1989.
121. H. C. Wang, J. M. Chen, M. J. Wang and C. M. Liu, "A study of expert system for selecting material handling equipments", *Proceeding of CIIE*, 217-224, 1989.
122. K. T. Hsiao, M. J. Wang, and C. M. Liu, "Simulation analysis of visual search performance in industrial inspection", *Proceeding of CIIE*, 225-234, 1989.
123. W. Y. Wu, M. J. Wang, and C. M. Liu, "Performance analysis of noise reduction methods in the image processing", *Proceedings of CIIE*, 235-243, 1989.
124. M. J. Wang, "Ergonomics application in occupational safety control - a case study", *Proceedings of the 54th Chinese Institute of Engineering Conference*, 1-21, 1989.
125. B. M. Kleiner and M. J. Wang, "Factors affecting the performance of semi -automated inspection", *Proceedings of IXth International Conference on Production Research*, Cincinnati, Ohio, 461-466, 1987.
126. W. V. Huang, M. J. Wang, and M. Ginn, "Layout planning- A fuzzy set approach", *Proceeding of IXth International Conference on Production Research*, Cincinnati, Ohio, 2444-2449, 1987.
127. M. J. Wang, H. Singh, W. V. Huang, "Robot selection through fuzzy set optimization", *Proceedings of International Conference on Robotics and Factories of the Future*, 617-624, 1987.
128. M. J. Wang, R. R. Bishu, and S. H. Rodgers, "Grip strength changes when wearing three types of gloves", *Proceedings of Interface 87*, Rochester, New York, 349-354, 1987.

129. C. G. Drury and M. J. Wang, "Are research results in inspection task-specific ?", Proceedings of the Human Factors Society, 30th Annual Meeting, 476-480, 1986.
130. M. J. Wang, C. G. Drury, and M. L. Raulin, "An evaluation of IPI- inspection test", Proceedings of the Human Factors Society, 30th Annual Meeting, 1296-1300, 1986.

E. Patents

1. Y.L. Lin, M.J. Wang, B. Wang, Non-contact 3D body dimension data collection system, ROC Patent No. I488017, 2015.
2. M. J. Wang, C. F. Kuo, C. H. Su, and S. C. Chang, Automated operation planning system based on physiological, motion, and environmental information. ROC Patent No. I403962, 2013.
3. M. J. Wang, S. N. Chen, C. F. Kuo, Digital human model motion generation based on object characteristics, ROC Patent No. I395153, 2013.
4. T. A. Kuo, F. J. Kuo, P.C. Chen, M. J. Wang, C. F. Kuo, S. Li, S. W. Chang, Synthetic Image Automatic Generation System and Method Thereof, PR China Patent No. 802067, 2011.
5. C. M. Lu, and M. J. Wang, Automated landmarks extraction from three dimensional whole body scanned data, US Patent No.7561726, 2009.
6. M. J. Wang and C. H. Chen, Motion generation based motion element semantics, ROC Patent No. I301940, 2008.
7. C. M. Lu, and M. J. Wang, Automated landmarks identification from 3D whole body scanning data, ROC Patent No. I235041, 2007.
8. M. J. Wang, C. Y. Lee, Y. D. Huang, Y. S. Wang, C. C. Tsai, Ergonomic mattress with effective ventilating and pressure relieving, ROC Patent No. M471212, 2014.
9. C. C. Tsai, and M. J. Wang, Ergonomics lifting belt. ROC Patent No. M451960, 2013.
10. M. J. Wang, C. L. Lin, and Y. C. Lee, Ergonomics nap pillow design, ROC Patent No. M427029, 2012.
11. M. J. Wang, C. L. Lin, and Y. C. Lee, Ventilating insole structure, ROC Patent No. M388860, 2010.
12. M. J. Wang, Y. C. Lee, and Gloria Lin, Arch support insole, ROC Patent No. M391862, 2010.
13. M. J. Wang, Y. C. Lee, and Gloria Lin, Insole structure with heel cup, ROC Patent No. M391317 2010.
14. M. J. Wang, and S. Y. Chi, Improving hand tool handle structure, ROC Patent No. M264078, 2006.
15. M. J. Wang, C. L. Lee, and S. W. Wu, Meet processing knife design, ROC Patent No. 338369, 1998.