

期刊論文 (Journal Paper)

1. Po-Yang Lin, **Win-Bin Shieh**, and Dar-Zen Chen (2013, Mar). "A Theoretical Study of Weight-Balanced Mechanisms for Design of Spring Assistive Mobile Arm Support (MAS)." *MECHANISM AND MACHINE THEORY*, 61:156–167.
 2. Po-Yang Lin, **Win-Bin Shieh**, and Dar-Zen Chen (2012, Feb). "Design of Statically Balanced Planar Articulated Manipulators with Spring Suspension." *IEEE Transactions on Robotics*, 28:1:12-21. (SCI, 2/19 ROBOTICS).
 3. 謝文賓, 羅遠傑, 陳啟倫, 廖國基 (2012年01月)。電動病床雙邊驅動式升降傾斜機構設計與應力分析。先進工程學刊, 7:1:23-29。本人為第一作者。
 4. **Win-Bin Shieh**, Frederick Sun, Dar-Zen Chen. (2011, May) "On the Operation Space and Motion Compatibility of Variable Topology Mechanisms." *Journal of Mechanisms and Robotics-Transactions of the ASME*, :2:021007, (SCI, 37/122 ENGINEERING, MECHANICAL).
 5. Po-Yang Lin, **Win-Bin Shieh**, Dar-Zen Chen (2010, Dec). "A stiffness matrix approach for the design of statically balanced planar articulated manipulators." *MECHANISM AND MACHINE THEORY*, 45:12:1877-1891.
 6. Po-Yang Lin, **Win-Bin Shieh**, Dar-Zen Chen (2010, Aug). "Design of a Gravity-Balanced General Spatial Serial-Type Manipulator." *Journal of Mechanisms and Robotics-Transactions of the ASME*, 2:3:031003. (SCI, 27/122 ENGINEERING, MECHANICAL).
 7. Po-Yang Lin, **Win-Bin Shieh**, and Dar-Zen Chen, 2009, "Design of Perfectly Static-Balanced One-DOF Planar Linkage with Revolute Joint Only," *ASME Transactions, Journal of Mechanical Design*. 131:5:051004, 2009. (SCI, EI)
 8. D.-Z. Chen, **W.-B. Shieh** and Y.-C. Yeh, 2008, "Kinematic Characteristics and Classification of Geared Mechanisms Using the Concept of Kinematic Fractionation," *ASME Transactions, Journal of Mechanical Design*., Vol. 130, no. 8, pp. 082602 (SCI).
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會議論文

1. Win-Bin Shieh, Jian-Sheng Lin (2013, Nov). Kinematic Modeling and Kinesiology Study of a Human Index Finger Based on Tendon-Driven Articulated Manipulator with Disc-Cam Pulleys. 2013 International Mechanical Engineering Congress & Exposition, San Diego, California, USA (IMECE2013), San Diego, CA, USA. 本人為第一作者、通訊作者。

2. Ya-Yun Lee, Dar-Zen Chen, and **Win-Bin Shieh** (2012, Nov). Design Optimization of Spring Configuration on Statically Balanced Planar Articulated Manipulators. The 2nd IFToMM Asian Conference on Mechanism and Machine Science, Tokyo, Japan.
3. 陳志鴻、林建昇、謝文賓 (2012 年 11 月)。大跨距零自由長度彈簧裝置之應用與設計。第十五屆全國機構與機器設計學術研討會，台南，台灣。NSC 100-2221-E-131-023。本人為通訊作者。
4. **Win-Bin Shieh**, Dar-Zen Chen, and Chia-Chun Wu (2012, Aug). Design of an Orthosis for the Weight Balance of Human Lower Limbs. ASME IDETC/CIE2012, Chicago, Illinois, UAS. NSC 100-2221-E-131-023. 本人為第一作者、通訊作者。
5. 林建昇, 陳志鴻, 謝文賓, ‘可攜式自動伸縮光碟機概念設計’, 第十四屆全國機構與機器設計學術研討會, 台灣、中壢, 台灣, 中華民國, 2011/11/4, 2011, (「自動伸縮應力分析」, 廣合科技有限公司, O03-099-E022)
6. **Win-Bin Shieh**, Chia-Chun Wu, Dar-Zen Chen, ‘Conceptual Design of a Portable Lower Limb Orthosis for Persons with Motor System Impairments’, 2nd IFToMM International Symposium on Robotics and Mechatronics, ISRM2011, Shanghai, China, 中國大陸, 2011/11/3, 2011, (「具肌力輔助及復健效能之穿戴式下肢外骨骼助行器設計」(NSC 99-2221-E-131-011-))
7. **Win-Bin Shieh**, Dar-Zen Chen, Chun-Fang Tsai, ‘Topological Synthesis of Fractionated Parallel Hybrid Transmission with Two Inputs’, 13th IFToMM World Congress, Guanajuato, MÉXICO, 墨西哥, 2011/6/19, 2011
8. **Win-Bin Shieh**, Dar-Zen Chen, Chau-Chih Yu, and Yi-Jeng Tsai, “Kinematic Modeling of a Finger-Alike Tendon-Driven Articulated Manipulator Based on Human Anatomy,” CD Proceedings of the First IFToMM Asian Conference on Mechanism and Machine Science, Asian-MMS2010, October 21 - 25, 2010, Taipei, Taiwan. (Paper ID:250125) (NSC 98-2221-E-131 -017-)
9. Po-Yang Lin, Dar-Zen Chen, **Win-Bin Shieh**, and Jing-Heng Chen, “On the Design and Synthesis of Parallel Motion Generators” CD Proceedings of the First IFToMM Asian Conference on Mechanism and Machine Science, Asian-MMS2010, October 21 - 25, 2010, Taipei, Taiwan. (Paper ID: 250046)
10. **Win-Bin Shieh**, Dar-Zen Chen, and Tzung-Shiun Liu, “Kinematic Families of Non-Fractionated Geared Kinematic Chains with up to Three DOFs and Eight Links Based on Mobility Degeneration,” CD Proceedings of the ASME 2010 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2010, August 15–18, 2010, Montreal, Quebec, Canada. (IDETC2010-28627)

11. 謝文賓、謝明洲、羅遠傑, 2009, “電動病床下壓式護欄之機構設計”, 中國機械工程學會第二十六屆全國學術研討會論文集 CD, 2009 年 11 月 20 日, 台灣台南, 國立成功大學。
12. 謝文賓、羅遠傑、謝明洲, 2009, “電動病床雙邊驅動式升降機構”, 第十二屆全國機構與機器設計學術研討會論文集 CD, 2009 年 11 月 6 日, 國立中正大學, 嘉義, 台灣。
13. 王淑儀、陳達仁、謝文賓, 2009, “具上肢特定肌肉訓練功能之輔具設計”, 第十二屆全國機構與機器設計學術研討會論文集 CD, 台灣嘉義, 國立中正大學, 11 月 6 日, 2009。
14. 蔡郡芳、陳達仁、謝文賓, 2009, “具雙輸入之可分離式混合動力變速機構之拓撲合成”, 第十二屆全國機構與機器設計學術研討會論文集 CD, 台灣嘉義, 國立中正大學, 11 月 6 日, 2009。
15. **Win-Bin Shieh**, Frederick Sun, and Dar-Zen Chen, 2009, “On the Topological Representation and Compatibility of Variable Topology Mechanisms,” Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2009, San Diego, California, USA, August 30–September 2, 2009,
16. Po-Yang Lin, **Win-Bin Shieh**, and Dar-Zen Chen, 2009, “On the Perfect Gravity Balance of a Spatial N-DOF Manipulator Based on the Localized Pseudo-Base,” Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2009, San Diego, California, USA, August 30–September 2, 2009,
17. Po-Yang Lin, **Win-Bin Shieh**, and Dar-Zen Chen, “Design of Perfectly Static-Balanced One-DOF Planar Linkage with Revolute Joint Only,” 第十一屆全國機構與機器設計學術研討會論文集 CD, 2008 年 11 月 14 日, 明新科技大學, 新竹, 台灣。(論文編號: A1N:93933)
18. Po-Yang Lin, **Win-Bin Shieh**, and Dar-Zen Chen, “Design of Gravity-Reduced Training and Rehabilitation Upper Limb Exoskeleton without Actuators for Hemiparetic Stroke Patients,” 第十一屆全國機構與機器設計學術研討會論文集 CD, 2008 年 11 月 14 日, 明新科技大學, 新竹, 台灣。(論文編號: A1N:23931) (“被動式上肢復健訓練穿戴型機械手臂設計”獲頒大會最佳論文獎第一名及紀念蔡隆文教授最佳論文獎)
19. 謝文賓、羅遠傑, “具升降及三軸向翻轉機構之筆記型電腦螢幕概念設計”, 第十一屆全國機構與機器設計學術研討會論文集 CD, 2008 年 11 月 14 日, 明新科技大學, 新竹, 台灣。(論文編號: A1N:95950)
20. 謝文賓、陳嘉振, “具有分離驅動特性之三個平移自由度並聯機器”, 中華民國第十三屆車輛工程學術研討會論文集 CD, 2008 年 10 月 31 日, 明志科技大學, 台北, 台灣。(論文編號: I-011)

21. **Win-Bin Shieh**, Dar-Zen Chen, and Yan-Jun Chen, "Kinematic Synthesis of One-DOF Geared Mechanisms According to Specified Gain Types," Proceedings of the ASME 2008 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, Brooklyn, New York, USA, August 3-6, 2008.(DETC2008-49510).
 22. P.-Y. Lin, **Win-Bin Shieh**, and Dar-Zen Chen, "Design of Perfectly Static-Balanced One-DOF Planar Linkage with Revolute Joint Only," Proceedings of the ASME 2008 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, Brooklyn, New York, USA, August 3-6, 2008.(DETC2008-49509).
 23. 林博揚、謝文賓、陳達仁, "運用基底彈簧之平面單自由度靜平衡連桿機構設計", 第十屆全國機構與機器設計學術研討會論文集, pp202-pp208, 11 月 30 日, 國立中興大學, 台中市, 台灣, 2007.
 24. 林韋全、陳嘉振、謝文賓、廖國基, "新型摺疊式照相行動電話模組化上蓋旋轉機構之專利分析與概念設計", 中國機械工程學會第二十四屆全國學術研討會論文集論文集, 11 月 22-23 日, 中原大學, 桃園中壢, 台灣, 2007.
 25. **W.-B. Shieh**, D.-Z. Chen and P.-Y. Lin, "Design of statically balanced planar four-bar linkages with base-attached springs", 12th IFToMMWorld Congress, Besancon (France), June 18-21, 2007.
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專利

1. "平版式衛生紙自動摺疊裝置", 中華民國新型第M344858 號。
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研究計畫及建教案

1. 謝文賓, 具肌力輔助及復健效能之穿戴式下肢外骨骼助行器設計 (II)(100-2221-E-131-023-), 國科會, 1000801~1010731。
2. 謝文賓, 具肌力輔助及復健效能之穿戴式下肢外骨骼助行器設計 (NSC99-2221-E-131 -011-), 國科會, 20100801~20110731。
3. 謝文賓, 自動伸縮應力分析, 廣合科技有限公司, 20100620~20110619.
4. 謝文賓, 基於解剖學與人體運動學之類人手指關節式腱驅動機構之運動模型建構與驗證, 國科會, 20090801~20100731。
5. 謝文賓, 電動病床雙邊驅動式升降機構與病床/推床之護欄設計, 長庚醫療器材股份有限公司, 20090316~20091231
6. 謝文賓, 病床主要傳動件機構設計雙轉軸迴旋技術研究, 長庚醫療器材股份有限公司, 20080410~20081231。
7. 謝文賓, 雙轉軸迴旋技術研究, 慶翰科技有限公司, 20080301~20081130。
8. 謝文賓, 「應用雙圖畫表示法於平面連桿機構可動型態需求之拓撲分析」

榮譽

1. 謝文賓獲得 2008 第十一屆全國機構與機器設計學術研討會最佳論文獎(第一名)。
2. 謝文賓獲得 2008 財團法人中華古機械文教基金會紀念蔡隆文教授最佳論文獎。