個人著作

A. Journal Papers

1. **M. Y. Wei,** S. A. Fang, and J. W. Liu, "Design and implementation of a new training flight simulator system," *Sensors, vol. 22,* pp. 7933, Oct. 2022. (SCI)
2. **M. Y. Wei,** Y. L. Yeh, J. W. Liu, and H. M. Wu, "Design and control of a multi-axis servo motion chair system based on a microcontroller," *Energies, vol. 15,* pp. 4401, June 2022. (SCI)
3. **M. Y. Wei**, "Design of a DSP-based motion-cueing algorithm using the kinematic solution for the 6-DoF motion platform," *Aerospace, vol. 9,* pp. 203, Oct. 2022. (SCI)
4. **M. Y. Wei,** "Design and implementation of an iterative learning control for three-axis motion control system," *新新季刊,* vol. 50, no. 2, pp. 208-214, Apr. 2022.
5. **M. Y. Wei**, Y. L. Yeh "A Study on the Design of 4-DOF Motion-Cueing Seat," *新新季刊,* vol. 52, no. 4, pp. 81-87, Oct. 2022.
6. **M. Y. Wei**, Y. L. Yeh, S. W. Chen, H. M. Wu, and J. W. Liu, "Design, analysis, and implementation of a four-DoF chair motion mechanism," *IEEE ACCESS, vol. 9,* pp. 124986-124999, Sep. 2021. (SCI)
7. **M. Y. Wei**, "Design and implementation of inverse kinematics and monitoring motion system for 6Dof platform," *Applied Science, vol. 11,* pp. 9330, Oct. 2021. (SCI)
8. **M. Y. Wei**, "Design of Optimized Tracking Motion-Cueing Algorithm for 6DOF Motion Platform Algorithm," *新新季刊,* vol. 49, no. 2, pp. 197-205, Apr. 2021.
9. **M. Y. Wei**, "Design of 6DOF Motion Platform Algorithm," 新新季刊, vol. 49, no. 1, pp. 132-137, Jan. 2021.

10. **M. Y. Wei**, "Design and Implementation of Encoder Calibration Platform by Interior Permanent Synchronous Motor Drives," *新新季刊,* vol. 48, no. 4, pp. 133-139, Oct. 2020.
11. **M. Y. Wei**, W. C. Chen, and Y. T. Tsai,, "Design and Implementation of Inverse Kinematics for 6DOF Crank Arm Motion Platform," *新新季刊,* vol. 46, no. 4, pp. 130-137, Oct. 2018.
12. **M. Y. Wei**, G. T. Liaw, R. C. Dung, S. C. Guei, and K. M. Lin, "Adaptive position control of synchronous reluctance motors based on passivity theory," *新新科技年刊,* vol. 12, no. 1, pp. 67-76, Jan. 2016.
13. **M. Y. Wei**, and T. H. Liu, "Design and implementation of an on-line tuning adaptive controller for synchronous reluctance motor drives," *IEEE Transactions on Industrial Electronics*, vol. 60, no. 9, pp. 3644-3657, Sep. 2013. (SCI)
14. **M. Y. Wei**, T. H. Liu, and P. C. Pan, "Rotor position estimator and adaptive controller design for wide-range adjustable speed synchronous reluctance motor drive systems," *International Journal of Electrical Engineering*, vol. 20, no. 1, pp. 1-14, Sep. 2013. (EI)
15. **M. Y. Wei**, and T. H. Liu, "A novel adaptive controller for a synchronous reluctance motor position control system," *電力電子雙月刊,* vol. 11, no. 1, pp. 72-83, Jan. 2013.
16. **M. Y. Wei**, and T. H. Liu, "A high-performance sensorless position control system of a synchronous reluctance motor using dual current-slope estimating technique," *IEEE Transactions on Industrial Electronics*, vol. 59, no. 9, pp. 3411-3426, Sep. 2012. (SCI)
17. C. K. Lin, T. H. Liu, **M. Y. Wei**, L. C. Fu, and C. F. Hsiao, "Design and implementation of a chattering-free non-linear sliding-mode controller for interior permanent synchronous drive systems," *IET*

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19. **M. Y. Wei**, and T. H. Liu, "Design and implementation of a passive controller for sensorless synchronous reluctance motor control systems," *電力電子雙月刊,* vol. 8, no. 6, pp. 58-68, Nov. 2010.

B. Conference Papers:

1. **M. Y. Wei**, and S. W. Chen, "Optimal control-based motion cueing algorithm design for 6DoF motion platform," *in Proc. IEEE ICKII-2021*, Taichung, Taiwan, pp. 216-222, Jul. 2021.
2. **M. Y. Wei**, "Design and implementation of the inverse kinematics and monitoring module for six-axis crank arm platform," *in Proc. IEEE ICKII-2021*, Taichung, Taiwan, pp. 210-215, Jul. 2021.
3. **M. Y. Wei**, and T. H. Liu, "On-line tuning adaptive controller design for a synchronous reluctance motor drive system," *in Proc. IEEE IPEMC-2012*, Harbin, China, pp. 64-68, Jun. 2012.
4. **M. Y. Wei**, and T. H. Liu, "Rotor position and speed estimation for a synchronous reluctance motor using dual current-slope technique, " *in Proc. IEEE ICIT-2011*, Alabama, USA, pp. 176-181, Mar. 2011.
5. **M. Y. Wei**, S. A. Fang, and J. W. Liu, "Design and implementation of a new full-featured flight simulator," *The 2022 Conference on Aeronautics and Astronautics*, Taichung, Taiwan, 2022.
6. **M. Y. Wei**, H. C. Yuan, J. W. Liu, and S. W. Chen, "Implementation of

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8. **M. Y. Wei**, and T. H. Liu, "High-performance position estimator and controller design for a synchronous reluctance motor drive," *in Proc. of the 10th Symposium on Taiwan Power Electronics Conference & Exhibition*, Chungli, Taiwan, 2011.
9. **M. Y. Wei**, and T. H. Liu, "Design and implementation of an adaptive inverse controller for synchronous reluctance motor drive systems," *in Proc. of the 32th Symposium on Electric Power Engineering*, New Taipei City, Taiwan, 2011.
10. **M. Y. Wei**, and T. H. Liu, "A passivity-based controller for sensorless synchronous reluctance motor drive systems," *in Proc. of the 28th Symposium on Chinese Society of Mechanical Engineers*, Taichung, Taiwan, 2011.
11. **M. Y. Wei**, and T. H. Liu, "Implementation of a sensorless synchronous reluctance motor control system using dual-slope current technique," *in Proc. of the 27th Symposium on Chinese Society of Mechanical Engineers*, Taipei, Taiwan, 2010.
12. **M. Y. Wei**, and T. H. Liu, "Design and implementation of a passive controller for sensorless synchronous reluctance motor drive systems," *in Proc. of the 9th Symposium on Taiwan Power Electronics Conference & Exhibition*, Chiayi, Taiwan, 2010.
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sensorless control by dual current-slope strategy for synchronous reluctance motor drive systems," *in Proc. of the 31th Symposium on Electric Power Engineering*, Tainan, Taiwan, 2010.