

## 期刊論文 (Journal Paper)

1. **Yi-Chang Tsai**, Tan-Feng Lee, Chen-Yu Kai (2012, Jun). Pressure sensor free adaptive controller design for pneumatic servo systems with time-varying mismatched uncertainties. *Journal of the Chinese Society of Mechanical Engineers*, 33(3), 203-210. 本人為第一作者、通訊作者.
  2. **Y. C. Tsai**, and A. C. Huang, "Multiple-surface sliding controller design for pneumatic servo systems," *Mechatronics*, Vol. 18, pp. 506-512, 2008. (SCI, EI) (I.F.: 0.803) (I.F. Ranking: 33/107, 2007 JCR)
  3. **Y. C. Tsai**, and A. C. Huang, "FAT-based adaptive control for pneumatic servo systems with mismatched uncertainties," *Mechanical Systems and Signal Processing*, Vol. 22, pp. 1263-1273, 2008. (SCI, EI) (I.F.: 1.333) (I.F. Ranking: 10/107, 2007 JCR)
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## 會議論文

1. **Yi-Chang Tsai** , ‘Robust Impedance Control of Pressure-Sensor Free Pneumatic Servo Systems’ , 2011 International Conference on Electric Information and Control Engineering , 武漢 , 中國大陸 , 2011/4/15 , 2011 , (NSC99-2221-E-131-020)
  2. 蔡宜昌 , ‘具滑移接頭擾動連桿機構之氣壓伺服致動控制器設計’ , 中國機械工程學會第二十八屆全國學術研討會 , 台中 , 台灣 , 中華民國 , 2011/12/10 , 2011 , (NSC-99-2221-E-131-020)
  3. 蔡宜昌 , “氣壓夾爪系統之建模與爪角定位控制” , 中國機械工程師學會第二十七屆全國學術研討會論文集 , pp. BB12-007 , 台北市 , 中華民國九十九年十二月 。
  4. **Y. C. Tsai**, and A. C. Huang, “Robust Impedance Control of Pneumatic Servo Systems,” *Proceedings of CSME 26<sup>th</sup> National Conference on Mechanical Engineering*, B15-03, Nov. 2009.
  5. C. Huang, and **Y. C. Tsai**, “FAT based adaptive controller design for pressure-sensor free pneumatic servo systems,” IEEE Proceedings of the 7<sup>th</sup> World Conference on Intelligent Control and Automation, pp. 2200-2205, Jun. 2008. (EI)
  6. **Y. C. Tsai**, and A. C. Huang, “Adaptive controller design for pressure-sensor free pneumatic servo systems,” Proceedings of CSME 25<sup>th</sup> National Conference on Mechanical Engineering, B15-04, Nov. 2008.
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## **研究計畫及建教案**

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