

Silvia Pettinari's scientific publications

1 Journal Papers

1. M. L. Corradini, A. Cristofaro, R. Giambò and S. Pettinari. Design of robust fault detection filters for MIMO uncertain plants with quantized information. *International Journal of Control*, vol. 85, no. 3, pp. 239–250, March 2012.
2. S. Boria, S. Pettinari and F. Giannoni. Theoretical analysis on the collapse mechanisms of thin-walled composite tubes. *Composite Structures*, vol. 103, No. 0, pp. 43–49, September 2013.
3. M.L. Corradini, A. Cristofaro, G. Orlando, S. Pettinari. Robust control of multi-input periodic discrete-time systems with saturating. *International Journal of Control*, vol. 86, no. 7, pp. 1240–1247, June 2013.
4. S. Boria, S. Pettinari. Energy absorbed by composite conical structures in axial crushing. *Accepted by Advanced Composites Letters*, February 2013.

2 International Conference Papers

1. M. L. Corradini, G. Ippoliti, G. Orlando, S. Pettinari. Robust Control of Hybrid Plants in the Presence of Quantization Errors. *Proc. IEEE International Conference on Control and Automation*, pp.234-239, Christchurch, New Zealand, 2009.
2. M. L. Corradini, R. Giambò, S. Pettinari. Design of robust fault detection filters for plant with quantized information, *Proc. Advanced Control and Diagnosis*, Zielona Góra, Poland, 2009.
3. M. L. Corradini, A. Cristofaro, R. Giambò, S. Pettinari. Robust Fault Detection Filters for a Class of MIMO Uncertain Sampled-Data Systems. *Proc. Conference on Control and Fault-Tolerant Systems (SysTol'10)*, pp. 341-346, Nice, France, 2010.
4. M. L. Corradini, A. Cristofaro, R. Giambò, S. Pettinari. Design of robust fault detection filters for plants with quantized information. *Proc. Advanced Control and Diagnosis*, pp. 40-45, Ferrara, Italia, 2010.
5. A. Cristofaro, S. Pettinari. Stepwise fault accommodation for hybrid quantized control systems. *Proc. Mediterranean Conference on Control and Automation*, pp. 785–790, Corfu, Greece, 2011.
6. M. L. Corradini, A. Moneriù , G. Orlando and S. Pettinari. An Actuator Failure Tolerant Robust Control Approach for an Underwater Remotely Operated Vehicle. *Proc. CDC and ECC*, Orlando, Florida, 2011.
7. M.L. Corradini, A. Cristofaro, R. Giambò and S. Pettinari. A Lyapunov-based diagnosis signal for fault detection robust tracking problem of a class of sampled-data systems. *Proc. CDC and ECC*, Orlando, Florida, 2011.

8. M.L. Corradini, G. Ippoliti, G. Orlando, S. Pettinari. Speed Estimation and Fault Detection for PMSM via Quasi Sliding Modes. *Proc. IFAC World Conference*, pp.6142-6147, Milano, Italia, 2011.
9. A. Cristofaro, S. Pettinari. Abrupt Fault Accommodation for sampled-data control systems. *Proc. European Advanced Control and Diagnosis Workshop*, Budapest, Hungary, 2011.
10. A. Cristofaro, S. Pettinari. Hybrid control design for fault accommodation in sampled-data systems. *Proc. 2012 American Control Conference*, Montreal, Canada, 2012.
11. S.Pettinari, M. L. Corradini, A. Serrani. Detection of Scramjet Unstart in a Hypersonic Vehicle Model. *Proc. 2012 American Control Conference*, Montreal, Canada, 2012.
12. M. L. Corradini, A. Cristofaro, S. Pettinari. Design of Robust Fault Detection Filters for Linear Descriptor Systems Using Sliding-Mode Observers. *Proc. IFAC Symposium on Robust Control Design*, Aalborg, Denmark, 2012.
13. M. L. Corradini, A. Cristofaro, S. Pettinari. Robust FDI filters and fault sensitivity analysis in continuous-time descriptor systems. *Proc. of the 51st CDC*, Maui, Hawaii, 2012.
14. S. Boria, S. Pettinari. Mathematical and numerical approach for a crashworthy problem. *Proc. of the 5th Int. Conf. on Comp. Methods for Coupled Problems in Sc. and Eng. (COUPLED PROBLEMS 2013)*, Ibiza, Spain, 17-19 June 2013.
15. M.L. Corradini, R. Giambó, S. Pettinari. FO sliding surface for the robust control of integer-order LTI plants. *Accepted by the 19th IFAC World Congress*, Cape Town, South Africa, 24-29 August 2014.
16. M. L. Corradini, A. Cristofaro, S. Pettinari. Diagnosis and accommodation of faults affecting the PMSG in variable-speed sensorless wind turbines - A deterministic approach. *Accepted by the 13th European Control Conference (ECC)*, Strasbourg, France, 25-27 June 2014.
17. S. Pettinari, M. L. Corradini. Fault Tolerant Control Allocation for Fractional-Order Systems. *Accepted by the 13th European Control Conference (ECC)*, Strasbourg, France, 25-27 June 2014.