

Journal and Conference Publications Dr Andrea Da Ronch

* indicates the three most significant publications in the last five years.

Referred Journals

- [1] Wu Y, Li D, Xiang J and Da Ronch A, "A Modified Airfoil-based Piezoaeroelastic Energy Harvester with Double Plunge Degrees of Freedom", *Theoretical and Applied Mechanics Letters*, 2016. In Press, Corrected Proof.
<http://dx.doi.org/10.1016/j.taml.2016.08.009>
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- [3] * Zhou Q, Li D, Da Ronch A, Chen G and Li Y, "Computational Fluid Dynamics-based Transonic Flutter Suppression with Control Delay", *Journal of Fluids and Structures*, 2016; 66: 183-206
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- [4] Li D, Zhou Q, Chen G, Li Y and Da Ronch A, "Structural Dynamic Reanalysis Method Application for Wing Structural Design", *International Journal of Aerospace and Lightweight Structures*, 2015; 5(4)
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- [5] Li F, Wang Y, Da Ronch A and M Ghandchi-Tehrani, "Adaptive Feedforward Control for Gust-induced Aeroelastic Vibrations", *International Journal of Aerospace and Lightweight Structures*, 2015; 5(1)
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- [6] Da Ronch A, "Un Mondo Migliore Grazie alla Ricerca e alle Nuove Tecnologie Aeronautiche", *Bellunesi Nel Mondo*, 2014; 3:7
- [7] * Ghoreyshi M, Cummings RM, Da Ronch A and Badcock KJ, "Transonic Aerodynamic Loads Modeling of X-31 Aircraft Pitching Motions", *AIAA Journal*, 2013; 51(10): 2447-2464
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- [10] Vallespin D, Badcock KJ, Da Ronch A, White M, Perfect P and Ghoreyshi M, "Computational Fluid Dynamics Framework for Aerodynamic Model Assessment", *Progress in Aerospace Sciences*, 2012; 52: 2-18
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- [13] Mialon B, Khrabrov A, Khelil SB, Huebner A, Da Ronch A, Badcock KJ, Cavagna L, Eliasson P, Zhang M, Ricci S, Jouhaud J-C, Rogé G, Hitzel S and Lahuta M, "Validation of Numerical Prediction of Dynamic Derivatives: The DLR-F12 and the Transcruiser Test Cases", *Progress in Aerospace Sciences*, 2011; 47(8): 674-694
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Journals Submitted for Peer-Review

- [1] Da Ronch A, Panzeri M, Abd Bari MA, Roberto d'Ippolito and Franciolini M, "Adaptive design of experiments for efficient and accurate estimation of aerodynamic loads", *Aircraft Engineering and Aerospace Technology*, Special Issue "SCAD & READ conference". Submitted 10 Oct 2016.
- [2] Jiffri S, Fichera S, Mottershead JE and Da Ronch A, "Experimental Nonlinear Control for Flutter Suppression in a Nonlinear Aeroelastic System," *Journal of Guidance, Control, and Dynamics*. Submitted 03 Oct 2016.
- [3] Zhou Q, Chen G, Da Ronch A and Li Y, "Reduced Order Unsteady Aerodynamic Model of a Rigid Aerofoil in Gust Encounters," *Aerospace Science and Technology*. Submitted on 26 Jun 2016.

Books

- [1] Marques P and Da Ronch A (Eds.), "Novel Concepts in Unmanned Aircraft Aerodynamics, Flight Stability, and Control." Chichester, GB, *Wiley-Blackwell*, 2016.
ESBN-10: 1118928687, ISBN-13: 978-1118928684

Book Chapters

- [1] Tantaroudas ND and Da Ronch A, "Nonlinear Reduced Order Aeroservoelastic Analysis of Very Flexible Aircraft," In Marques P and Da Ronch A (Eds.), "Novel Concepts in Unmanned Aircraft Aerodynamics, Flight Stability, and Control." Chichester, GB, *Wiley-Blackwell*, 2016.
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- [2] Akram U, Cristofaro M and Da Ronch A, "Virtual Flight Simulation using Computational Fluid Dynamics," In Marques P and Da Ronch A (Eds.), "Novel Concepts in Unmanned Aircraft Aerodynamics, Flight Stability, and Control." Chichester, GB, *Wiley-Blackwell*, 2016.
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Book Reviews

- [1] Da Ronch A, "Flight Dynamics Principles: a Linear Systems Approach to Aircraft Stability and Control - Third edition" by Cook MV reviewed in *The Aeronautical Journal*, June 2015: 795-796

Conference Papers

- [1] Da Ronch A, Panzeri M, Abd Bari MA, Roberto d'Ippolito and Franciolini M, "Adaptive design of experiments for efficient and accurate estimation of aerodynamic loads", 6th Symposium on Collaboration in Aircraft Design (SCAD), Warsaw, Poland, 12-14 Sep 2016
- [2] Wang Y, Li F and Da Ronch A, "Flight Testing Adaptive Feedback/Feedforward Controller for Gust Loads Alleviation on a Flexible Aircraft", AIAA-2016-3100, AIAA Aviation, Washington, DC, 13-17 Jun 2016
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- [7] Osborne T, Lasagna D, Da Ronch A and Stalnov O, "Numerical and Experimental Investigations on Very Flexible Aero-structures", AIAA-2016-1800, AIAA SciTech, San Diego, CA, 4-8 Jan 2016
- [8] Liu K, Da Ronch A, Li D and Xiang J, "Modeling of Unsteady Aerodynamics for a Flapping Wing", IFAC-PapersOnLine 2015; 48(28): 404-408

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- [3] Da Ronch A, "A Multi-purpose UAV Configuration: Wing Structural Design and Manufacturing", BSc Thesis, Department of Aerospace Engineering, Politecnico di Milano, Italy, Sep 2005

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