

# Lorenzo Dozio, Ph.D.

## Curriculum vitae

December 2019

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### Personal information

Born in Monza (MB, Italy), 13 November 1972, Italian citizenship.

Current address: via Codogno 11, Milano, Italy.

Married with Letizia, two sons (Paolo and Tommaso) and two twin daughters (Anna and Matilde).

Professor in Aerospace Structures (ING-IND/04 – Costruzioni e Strutture Aerospaziali)

Department of Aerospace Science and Technology (DAER), Politecnico di Milano

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### Education

January 2002 PhD in Aerospace Engineering, Politecnico di Milano

Thesis title: Active vibration control of flexible aerospace structures

Thesis supervisors: prof. Franco Bernelli Zazzera, prof. Paolo Mantegazza

October 1998 Degree in Aerospace Engineering, Politecnico di Milano

Thesis title: Controllo adattativo di una struttura flessibile mediante filtri a reticolo

Thesis supervisors: prof. Franco Bernelli Zazzera, prof. Paolo Mantegazza

June 1991 High School Diploma (classical studies),

Liceo Classico Statale Bartolomeo Zucchi, Monza

### Academic positions

since November 2019 Professor in Aerospace Structure

Department of Aerospace Science and Technology

Politecnico di Milano, Italy

June 2015 Associate Professor in Aerospace Structures

October 2019 Department of Aerospace Science and Technology,

Politecnico di Milano, Italy

October Visiting Professor

November 2015 Université Paris Ouest, Paris, France

from January 2004 to June 2015	Assistant Professor in Aerospace Structures Department of Aerospace Science and Technology, Politecnico di Milano, Italy
from January 2002 to December 2003	Post-doctoral fellow Department of Aerospace Science and Technology, Politecnico di Milano, Italy. Research title: Passive and active noise reduction inside helicopter cabins. Research supervisor: prof. Gianluca Ghiringhelli
from November 1998 to November 2001	PhD candidate Department of Aerospace Science and Technology, Politecnico di Milano, Italy

### **National qualifications**

August 2018	National Scientific Qualification for Full Professor ASN – Abilitazione Scientifica Nazionale Bando D.D. 1532/2016 Settore concorsuale 09/A1 – Ingegneria Aeronautica, Aerospaziale e Navale
February 2014	National Scientific Qualification for Associate Professor ASN – Abilitazione Scientifica Nazionale Settore concorsuale 09/A1 – Ingegneria Aeronautica, Aerospaziale e Navale

### **Institutional roles and activities**

List of institutional roles and activities carried out at Politecnico di Milano:

since January 2019	Chairman of the Aerospace Engineering Programs (BSc and MSc) Ingegneria Aerospaziale – Laurea di Primo Livello (ord. 270) Aeronautical Engineering/Ingegneria Aeronautica – Laurea Magistrale Space Engineering/Ingegneria Spaziale – Laurea Magistrale
since January 2019	Member of the Council of the School of Industrial and Information Engineering
since January 2019	Coordinator of the graduation committees School of Industrial and Information Engineering
May / July 2019	Member of the committee for the selection of PhD students Doctoral Program in Aerospace Engineering
from January 2017 to December 2018	DAER Head's delegate Council of the School of Industrial and Information Engineering
since October 2017	Member of the committee for the evaluation of the quality of the Aerospace Engineering Programs

since January 2017	Member of the Board of the Department of Aerospace Science and Technology
since January 2014	Member of the Teaching Committee Department of Aerospace Science and Technology
since 2013	Member of the steering committee of the PhD Program in Aerospace Engineering
from 2015 to 2018	Member of the committee for the selection of teaching collaborators in the Aerospace Engineering Programs
from January 2013 to December 2016	President of the committee for the admissions to MSc Programs in Aeronautical Engineering and Space Engineering
2005	Member of the committee for the re-design of the course in Fundamentals of Computer Science for students enrolled in the bachelor's degree in Aerospace Engineering

## **Teaching**

Teaching modules at Politecnico di Milano as lecturer:

2018-2019	DYNAMICS AND CONTROL OF SPACE STRUCTURES (10 credits) MSc in Space Engineering – Ingegneria Spaziale
2017-2018	DYNAMICS AND CONTROL OF SPACE STRUCTURES (10) MSc in Space Engineering – Ingegneria Spaziale
2016-2017	DYNAMICS AND CONTROL OF SPACE STRUCTURES (10) MSc in Space Engineering – Ingegneria Spaziale
2015-2016	DYNAMICS AND CONTROL OF AEROSPACE STRUCTURES AND FUNDAMENTALS OF AEROELASTICITY (10) MSc in Space Engineering – Ingegneria Spaziale MSc in Aeronautical Engineering – Ingegneria Aeronautica
2014-2015	DYNAMICS AND CONTROL OF AEROSPACE STRUCTURES AND FUNDAMENTALS OF AEROELASTICITY (10) MSc in Space Engineering – Ingegneria Spaziale MSc in Aeronautical Engineering – Ingegneria Aeronautica
2013-2014	DYNAMICS AND CONTROL OF AEROSPACE STRUCTURES AND FUNDAMENTALS OF AEROELASTICITY (10) MSc in Space Engineering – Ingegneria Spaziale
2012-2013	DYNAMICS AND CONTROL OF AEROSPACE STRUCTURES AND FUNDAMENTALS OF AEROELASTICITY (10) MSc in Space Engineering – Ingegneria Spaziale
2011-2012	DYNAMICS AND CONTROL OF AEROSPACE STRUCTURES AND FUNDAMENTALS OF AEROELASTICITY (10) MSc in Space Engineering – Ingegneria Spaziale
2006-2007	TECNICA E SPERIMENTAZIONE AEROSPAZIALE (5) BSc in Aerospace Engineering
2005-2006	TECNICA E SPERIMENTAZIONE AEROSPAZIALE (5) BSc in Aerospace Engineering
2004-2005	TECNICA E SPERIMENTAZIONE AEROSPAZIALE (5) BSc in Aerospace Engineering

2003-2004      TECNICA E SPERIMENTAZIONE AEROSPAZIALE (5)  
                    BSc in Aerospace Engineering

Teaching modules at Politecnico di Milano as assistant:

2010-2011      DINAMICA, CONTROLLO DI STRUTTURE E FONDAMENTI DI  
                    AEROELASTICITA' (10 credits)  
                    MSc in Space Engineering – Ingegneria Spaziale  
                    MSc in Ingegneria Aeronautica

2009-2010      DINAMICA E CONTROLLO DI STRUTTURE AEROSPAZIALI (7.5)  
                    MSc in Space Engineering – Ingegneria Spaziale  
                    MSc in Ingegneria Aeronautica

2008-2009      DINAMICA E CONTROLLO DI STRUTTURE AEROSPAZIALI (7.5)  
                    MSc in Space Engineering – Ingegneria Spaziale  
                    MSc in Ingegneria Aeronautica

2007-2008      DINAMICA E CONTROLLO DI STRUTTURE AEROSPAZIALI (7.5)  
                    MSc in Space Engineering – Ingegneria Spaziale  
                    MSc in Ingegneria Aeronautica

2006-2007      DINAMICA E CONTROLLO DI STRUTTURE AEROSPAZIALI (7.5)  
                    MSc in Space Engineering – Ingegneria Spaziale  
                    MSc in Ingegneria Aeronautica

2005-2006      DINAMICA E CONTROLLO DI STRUTTURE AEROSPAZIALI (7.5)  
                    MSc in Space Engineering – Ingegneria Spaziale  
                    MSc in Ingegneria Aeronautica

2004-2005      DINAMICA E CONTROLLO DI STRUTTURE AEROSPAZIALI (7.5)  
                    MSc in Space Engineering – Ingegneria Spaziale  
                    MSc in Ingegneria Aeronautica

2002-2003      SERVOSISTEMI AEROSPAZIALI  
                    Laurea VO Ingegneria Aerospaziale

2001-2002      SERVOSISTEMI AEROSPAZIALI  
                    Laurea VO Ingegneria Aerospaziale

Research seminars at LEME Université Paris Ouest (2015), DRIVE ISAT Université de Bourgogne (2013), Dipartimento di Sistemi e Informazione dell'Università di Firenze (2004 e 2009).

Short courses to aerospace and mechatronic companies: Leonardo Airbone & Space Systems (2018), SYSGO, Robox, S & H, Teach (2000-2004).

### **Supervision of students**

Supervisor of the following PhD theses:

2018 -	Alessio Gorgeri	[]
2011-2014	Amir Hossein Mohazzab	Vibration analysis of composite plates and shells using spectral collocation techniques

Co-supervisor of the following PhD theses:

2004-2007	Alessandro Toso	Active control of noise and vibration in helicopter cabins
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Supervisor of the following MSc theses:

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| 2019 | Domenico Digiesi                     | [active control of microvibrations in sandwich plates]   |
|      | Luis Felipe Gaivao                   | [attitude control of spacecrafts with flexible antennas]<br>(in collaboration with D-Orbit SpA)  |
|      | Jacopo Paserio                       | Design of metamaterial-inspired acoustic liners<br>(in collaboration with Leonardo SpA)  |
| 2018 | Omar Faccini                         | Vibroacoustic control of plates with self-tuning decentralized feedback loops  |
|      | Alessio Gorgeri                      | Analysis of multilayered cylindrical shells using sublaminar variable-kinematic models   |
|      | Caterina Oltremonti & Marco Pascucci | Implementation of a 2D sandwich finite element in B2000++<br>(in collaboration with SMR SA)  |
|      | Davide Di Girolamo                   | Active damping controllers with proof-mass electrodynamic actuators: design, analysis and experiments  |
| 2017 | Francesco Gant                       | Stochastic modeling and analysis of acoustic pressure measurements in thermoacoustics<br>(in collaboration with Ansaldo Energia)                                       |
|      | Francesco La Manna                   | Thermo-mechanical analysis of multilayered plates using variable-kinematic 2D models   |
| 2016 | Marco Brizioli                       | Sublaminar variable-kinematic models for the dynamic analysis of sandwich plates   |
| 2015 | Claudio Punzi                        | Refined finite element formulation of shunted piezolaminated plates  |
|      | Tanzeel Ur Rehman                    | Exact vibration solutions of thick laminated and FGM plates and shells   |
|      | Matteo Bortolas                      | Efficient models for vibration analysis of composite plate assemblies  |
|      | Mirko Bartolo                        | Studio e applicazione di tecniche di Input Shaping per il controllo delle vibrazioni di strutture flessibili   |
|      | Francesco De Leo                     | Design of suboptimal controllers for reduction of vibration and sound radiation of plates using inertial actuators   |
|      | Marco Bevilacqua                     | Transferring an Earth based adaptive optics technology to space  |
| 2014 | Davide Invernizzi                    | A foreshortening formulation for flexible structures undergoing large overall motion   |
|      | Matteo Spinelli                      | Static and dynamic analysis of anisotropic plates using variable-kinematic Ritz models   |
|      | Silvio Patruno                       | Optimal location and gains of sensors and actuators for feedback vibroacoustic control of plates   |
| 2013 | Alberto De Vincenzis                 | Locally resonant 1-D structures: theory and application<br>(in collaboration with Georgia Tech, prof. Massimo Ruzzene)   |
|      | Alberto Spalluto                     | Free vibration of piezolaminated plates using refined 2-D theories   |
|      | Marco Dolci                          | Scientific analysis of NASA astrophysical mission concept SWORD<br>(in collaboration with JPL)   |
| 2011 | Luca Alimonti                        | Refined finite element structural models for the vibroacoustic response of plate-cavity systems<br>(in collaboration with Politecnico di Torino, prof. Erasmo Carrera) |
| 2010 | Filippo Casadei                      | Broadband vibration and noise control of plates with periodic arrays of shunted piezoelectric patches<br>(in collaboration with Georgia Tech, prof. Massimo Ruzzene)   |

	Luca Airoidi	Attenuation of wave propagation in beams and plates with periodic shunted piezoelectric patches (in collaboration with Georgia Tech, prof. Massimo Ruzzene)
2009	Mario Girlando	Modellazione di pannelli moderatamente spessi mediante il metodo di Ritz
2008	Andrea Barchi	Analisi e controllo della trasmissione acustica in sistemi a doppio pannello
	Pierluigi Serio	Modellazione e controllo di un sistema vibroacustico accoppiato
2007	Nicola Dabinovich Massimo Ricciardi	Tecniche di progetto di filtri spaziali per il controllo attivo strutturale Controllo vibroacustico centralizzato e decentralizzato di pannelli rinforzati
2006	Vito Laneve	Controllo predittivo generalizzato di strutture aerospaziali con pesatura in frequenza
	Marco Manfredi	Controllo attivo della trasmissione delle vibrazioni in una trave mediante algoritmi predittivi
2005	Alessandro Cicchelero	Controllo gerarchico delle vibrazioni di un pannello
2003	Daria Meloni	Progetto dell'architettura software del microsatellite Palamede

Co-Supervisor of the following MSc theses:

2018	Davide Pizzi Enrico Spigarolo	Ritz approach for the analysis of curvilinearly stiffened panels Analysis of post-buckled variable-stiffness panels using Ritz method and Koiter's approach
2003	Walter Corbetta	Controllo attivo centralizzato di vibrazione e rumore di un pannello sottile
	Mark Watt	Adaptive control of large space structures (in collaboration with University of Glasgow)
	Francesco Ballabio	Controllo attivo di una struttura in composito laminato con piezoelettrici integrati (in collaboration with CGSpace)
2002	Corrado Romano	Controllo adattativo delle vibrazioni di una trave tramite attuatori piezoelettrici
	Alessandro Toso & Roberto Previti	Controllo attivo adattativo-predittivo del flutter su un modello d'ala con due superfici mobili
2001	Alessandra Ferrario & Roberto Sorbi	Controllo adattativo di una trave a massa variabile

Academic tutor of the following BSc stages:

2009	Elisabetta Vaccaro	Documentazione F.A.I. e controlli dimensionali
2008	Oronzo Signorile Alberto Nova	Campagna prove su un nuovo modello di girante PAG T1 Valutazione dell'usura di un disco freno carbo-ceramico mediante analisi termica
2007	Aida Curci	Il sistema di automazione per la linea di produzione del clinker nella cementerai
	Andrea Carbonaro Guido Settingiano	Sviluppo e industrializzazione di polipreparatori Prove di laboratorio su materiali compositi di impiego aeronautico

	Michele Mambretti	Controllo dimensionale tramite macchine di misura a coordinate e compilazione della documentazione F.A.I.
2006	Matteo Emanuelli Gianmarco Sironi	Stima dell'incertezza di misura di un calorimetro Determinazione dell'incertezza di misura associata alla strumentazione impiegata nelle tarature e nelle prove strutturali

### **Editorial and review activities**

since October 2017	Member of the editorial board of the international journal Vibration (ISSN: 2571-631X) <a href="http://www.mdpi.com/journal/vibration">http://www.mdpi.com/journal/vibration</a>
since 2015	Member of the editorial board of STRUCTURAL AND COMPUTATIONAL MECHANICS BOOK SERIES, Società Editrice Esculapio (ISSN: 2421-2822)
since 2015	Member of the editorial board of the international journal Shock and Vibration (ISSN: 1070-9622) <a href="https://www.hindawi.com/journals/sv">https://www.hindawi.com/journals/sv</a>
since 2014	Associate Editor of the international journal Curved and Layered Structures (ISSN: 2353-7396) <a href="https://www.degruyter.com/view/j/cls">https://www.degruyter.com/view/j/cls</a>
since 2006	Referee for the following international journals: Journal of Sound and Vibration, Composite Structures, Smart Materials and Structures, Journal of Vibration and Acoustics, AIAA Journal, Journal of Vibration and Control, Shock and Vibration, Meccanica, International Journal of Mechanical Sciences, Computer Methods in Applied Mechanics and Engineering, Journal of Intelligent Materials Systems and Structures, International Journal of Non-Linear Mechanics, IEEE Transactions on Control Systems Technology

### **Conference organization**

2020	Member of the Scientific Committee of 3 <sup>rd</sup> Euro-Mediterranean Conference on Structural Dynamics and Vibroacoustics (MEDYNA 2020), 17-19 February 2020, Naples, Italy
2019	Member of the Scientific Committee of 22 <sup>th</sup> International Conference of Composite Structures (ICCS22) and 1 <sup>st</sup> Chinese Conference on Composite Structures, 31 October – 3 November 2019, Wuhan, China
2019	Member of the Scientific Committee of 5 <sup>th</sup> International Conference on Mechanics of Composites (MECHCOMP5), 1-4 July 2019, Lisbon, Portugal
2018	Member of the Scientific Committee of 21 <sup>th</sup> International Conference of Composite Structures (ICCS21), 4-7 September 2018, Bologna, Italy
2018	Member of the Scientific Committee of 4 <sup>th</sup> International Conference on Mechanics of Composites (MECHCOMP4), 9-12 July 2019, Madrid, Spain
2017	Member of the Scientific Committee of 20 <sup>th</sup> International Conference of Composite Structures (ICCS20), 4-9 September 2017, Paris, France

- 2017 Member of the Scientific Committee of 3<sup>rd</sup> International Conference on Mechanics of Composites (MECHCOMP3), 4-7 July 2017, Bologna, Italy
- 2016 Member of the Scientific Committee of 19<sup>th</sup> International Conference of Composite Structures (ICCS19), 5-9 September 2016, Porto, Portugal
- 2016 Member of the Scientific Committee of 2<sup>nd</sup> International Conference on Mechanics of Composites (MECHCOMP2), 11-14 July 2016, Porto, Portugal
- 2015 Member of the Scientific Committee of the International Conference on Shells, Plates and Beams (SPB2015), 9-11 September, Bologna, Italy
- 2015 Member of the Scientific Committee of 10<sup>th</sup> International Conference on Composite Science and Technology (ICCST/10), 2-9 September 2015, Lisbon, Portugal
- 2015 Member of the Scientific Committee of 18<sup>th</sup> International Conference of Composite Structures (ICCS18), 15-18 June 2015, Lisbon, Portugal
- 2015 Member of the Scientific Committee of 2<sup>nd</sup> International Conference in Algebraic and Symbolic Computation (ECCOMAS Thematic Conference), 26-27 March 2015, Faro, Portugal
- 2014 Member of the Scientific Committee of 1<sup>st</sup> International Conference on Mechanics of Composites (MECHCOMP1), 8-12 June 2014, Long Island, USA
- 2013 Member of the Scientific Committee of 3<sup>rd</sup> Embed with Linux Workshop, 26-27 August 2013, Toulouse, France
- 2013 Organizer and chairman of the session “Vibration modeling and behavior of laminated structures”, 17<sup>th</sup> International Conference on Composite Structures, 17-21 June 2013, Porto, Portugal
- 2012 Member of the Scientific Committee of 1<sup>st</sup> International Conference on Mechanics of Nano, Micro and Macro Composite Structures, 18-20 June 2016, Torino, Italy
- 2012 Member of the Scientific Committee of 2<sup>nd</sup> Embed with Linux Workshop, 4 June 2012, Cité de la voile, Lorient, France

### **Current research interests**

Dynamics and control of flexible aerospace structures.  
 Advanced models of multilayered composite and smart plates and shells.  
 Active and shunted piezoelectric control systems.  
 Modeling and control of vibroacoustic systems.  
 Passive and active noise and vibration control for aerospace applications.

### **Research and industrial projects**

Principal investigator of the following projects and contracts:

- 2018-2019 “BEAT – Busbar Embedded Audio Technology”, funded by Elmont srl
- 2017-2018 “MuteMovida – Design of an active device for reducing sound transmission through windows”, funded by Soonora srl
- 2013-2016 “VIP2 – Vibroacoustic models of panels with viscoelastic and piezoelectric layers”, funded by Fondo di Ateneo per la Ricerca di Base (FARB 2013), Politecnico di Milano
- 2007-2009 Tutoraggio Scientifico e Consulenza Professionale per Finlombarda, funded by Regione Lombardia
- 2007 “Design and implementation of a real-time system for complex industrial controllers”, funded by M.A.I. srl



Co-principal investigator of the following projects and contracts:

- 2019-2022 “DEVISU - DEvelopment and applications of a VIRTUAL hybrid platform for multiscale analysis of advanced STRUCTURES of aircraft”, funded by Ministero dell’Università e della Ricerca, PRIN Bando 2017
- 2012-2015 “GARTEUR HC/AG-20 – Simulation and experimental methods for new solutions for internal noise reduction”, Group for Aeronautical Research and Technology in Europe
- 2014 Contratto di consulenza per analisi di transazioni (advice activities related to aerospace companies), funded by Deloitte SpA
- 2010-2011 “Smart adaptive lead-lag damper”, funded by Mecaer Aviation Group
- 2003-2008 “FRIENDCOPTER – Integration of Technologies in Support of a Passenger and Environmentally Friendly Helicopter”, funded by European Program FP6
- 2005-2006 “Nanotecnologie per nanosatelliti universitari in volo in formazione: realizzazione di un prototipo”, funded by ASI (Italian Space Agency)
- 2004-2005 “SI PARTE! – Soluzioni innovative per applicazioni real-time embedded”, funded by Regione Lombardia
- 2003-2005 “Metodi e tecniche innovative per la qualifica spaziale di un microsatellite universitario”, funded by ASI (Italian Space Agency)
- 2002-2003 “Studio, realizzazione e sperimentazione di un Sistema di controllo attivo delle oscillazioni di pressione in un tubo di Rijke”, funded by ENEL ricerca.

## **Scientific publications**

Metrics (updated at 29 July 2019)	WoS –	h-index: 15 citations: 610
	Scopus –	h-index: 15 citations: 745
	Google Scholar –	h-index: 20 citations: 1492

List of journal papers.

- [J1] Vescovini, R.; Olivieri, V.; Pizzi, D.; **Dozio, L.**; Weaver, P.M.  
A Semi-Analytical Approach for the Analysis of Variable-Stiffness Panels with Curvilinear Stiffeners  
International Journal of Solids and Structures, in press.
- [J2] Vescovini, R.; Olivieri, V.; Pizzi, D.; **Dozio, L.**; Weaver, P.M.  
Pre-buckling and Buckling Analysis of Variable-Stiffness, Curvilinearly Stiffened Panels  
Aerotecnica Missili e Spazio (2019), <https://doi.org/10.1007/s42496-019-00031-4>.
- [J3] Gorgeri, A.; Vescovini, R.; **Dozio, L.**  
Analysis of Multiple-Core Sandwich Cylindrical Shells using a Sublaminar Formulation  
Composite Structures, Vol. 225, October 2019, article 111067  
DOI: 10.1016/j.compstruct.2019.111067
- [J4] Vescovini, R.; Spigarolo, E.; Jansen, E.L.; **Dozio, L.**  
Efficient post-buckling analysis of variable-stiffness plates using a perturbation approach  
Thin-Walled Structures, Vol. 143, October 2019, article 106211  
DOI: 10.1016/j.tws.2019.106211
- [J5] D’Ottavio, M.; **Dozio, L.**; Vescovini, R.; Polit, O.  
The Ritz - Sublaminar Generalized Unified Formulation Approach for Piezoelectric Composite Plates

- International Journal of Smart and Nano Materials, Vol. 9, N. 1, 2018, p. 34-55  
DOI: 10.1080/19475411.2017.1421275
- [J6] Vescovini, R.; D'Ottavio, M.; **Dozio, L.**; Polit, O.  
Buckling and Wrinkling of Anisotropic Sandwich Plates  
International Journal of Engineering Science, Vol. 130, 2018, p. 136-156  
DOI: 10.1016/j.ijengsci.2018.05.010
- [J7] Vescovini, R.; **Dozio, L.**  
Analysis of Monolithic and Sandwich Panels Subjected to Non-Uniform Thickness-Wise Boundary Conditions  
Curved and Layered Structures, Vol. 5, N. 1, 2018, p. 232-249  
DOI: 10.1515/cls-2018-0017
- [J8] Vescovini, R.; **Dozio, L.**  
Thermal Buckling Behaviour of Thin and Thick Variable-Stiffness Panels  
Journal of Composite Sciences, Vol. 2, N. 4, 58, 2018, p. 1-23  
DOI: 10.3390/jcs2040058
- [J9] Vescovini, R.; **Dozio, L.**; D'Ottavio, M.; Polit, O.  
On the Application of the Ritz Method to Free Vibration and Buckling Analysis of Highly Anisotropic Plates  
Composite Structures, Vol. 192, 2018, p. 460-474  
DOI: 10.1016/j.compstruct.2018.03.017
- [J10] Bevilacqua, M.; **Dozio, L.**; Mantegazza, P.  
Transferring an Earth-Based Adaptive Optics Technology to Space Telescopes  
Aerotecnica, Missili e Spazio, Vol. 96, N. 3, 2017, p. 124-135
- [J11] Vescovini, R.; D'Ottavio, M.; **Dozio, L.**; Polit, O.  
Thermal Buckling Response of Laminated and Sandwich Plates Using Refined 2-D Models  
Composite Structures, Vol. 176, 2017, p. 313-328  
DOI: 10.1016/j.compstruct.2017.05.021
- [J12] D'Ottavio, M.; **Dozio, L.**; Vescovini, R.; Polit, O.  
Bending Analysis of Composite Laminated and Sandwich Structures Using Sublaminated Variable-Kinematic Ritz Models  
Composite Structures, Vol. 155, 2016, p. 45-62  
DOI: 10.1016/j.compstruct.2016.07.036
- [J13] **Dozio, L.**  
A Hierarchical Formulation of the State-Space Levy's Method for Vibration Analysis of Thin and Thick Multilayered Shells  
Composites Part B - Engineering, Vol. 98, 2016, p. 97-107  
DOI: 10.1016/j.compositesb.2016.05.022
- [J14] **Dozio, L.**; Alimonti, L.  
Variable Kinematic Finite Element Models of Multilayered Composite Plates Coupled with Acoustic Fluid  
Mechanics of Advanced Materials and Structures, Vol. 23, N. 9, 2016, p. 981-996  
DOI: 10.1080/15376494.2015.1121558
- [J15] Invernizzi, D.; **Dozio, L.**  
A Fully Consistent Linearized Model for Vibration Analysis of Rotating Beams in the Framework of Geometrically Exact Theory  
Journal of Sound and Vibration, Vol. 370, 2016, p. 351-371  
DOI: 10.1016/j.jsv.2016.01.049
- [J16] Vescovini, R.; **Dozio, L.**  
A Variable-Kinematic Model for Variable Stiffness Plates: Vibration and Buckling Analysis  
Composite Structures, Vol. 142, 2016, p. 15-26  
DOI: 10.1016/j.compstruct.2016.01.068
- [J17] **Dozio, L.**

- Refined 2-D Theories for Free Vibration Analysis of Annular Plates: Unified Ritz Formulation and Numerical Assessment  
Computers & Structures, Vol. 147, 2015, p. 250-258  
DOI: 10.1016/j.compstruc.2014.10.015
- [J18] Mohazzab, A.H.; **Dozio, L.**  
Prediction of Natural Frequencies of Laminated Curved Panels Using Refined 2-D Theories in the Spectral Collocation Method  
Curved and Layered Structures, Vol. 2, N. 1, 2015, p. 1-14  
DOI: 10.1515/cls-2015-0001
- [J19] Mohazzab, A.H.; **Dozio, L.**  
A Spectral Collocation Solution for In-Plane Eigenvalue Analysis of Skew Plates  
International Journal of Mechanical Sciences, Vol. 94-95, 2015, p. 199-210  
DOI: 10.1016/j.ijmecsci.2015.03.008
- [J20] Vescovini, R.; **Dozio, L.**  
Exact Refined Buckling Solutions for Laminated Plates Under Uniaxial and Biaxial Loads  
Composite Structures, Vol. 127, 2015, p. 356-368  
DOI: 10.1016/j.compstruct.2015.03.003
- [J21] **Dozio, L.**  
Exact Vibration Solutions for Cross-Ply Laminated Plates with Two Opposite Edges Simply Supported Using Refined Theories of Variable Order  
Journal of Sound and Vibration, Vol. 333, N. 8, 2014, p. 2347-2359  
DOI: 10.1016/j.jsv.2013.12.007
- [J22] **Dozio, L.**  
Exact Free Vibration Analysis of Lévy FGM Plates with Higher-Order Shear and Normal Deformation Theories  
Composite Structures, Vol. 111, 2014, p. 415-425  
DOI: 10.1016/j.compstruct.2014.01.014
- [J23] **Dozio, L.**  
Natural Frequencies of Sandwich Plates with FGM Core Via Variable-Kinematic 2-D Ritz Models  
Composite Structures, Vol. 96, 2013, p. 561-568  
DOI: 10.1016/j.compstruct.2012.08.016
- [J24] Bottasso, C.L.; Cacciola, S.; Croce, A.; **Dozio, L.**  
Load Reduction in Lead-Lag Dampers by Speed-Scheduled Aperture and Modulated Control of a Bypass Valve  
Journal of the American Helicopter Society, Vol. 57, N. 2, 2012, p. 16-28  
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