

ALLEGATO C
CURRICULUM VITAE (maggio 2023)

**FORMATO
EUROPEO PER IL
CURRICULUM
VITAE**



INFORMAZIONI PERSONALI

Nome e Cognome

Antonino Morassi

Data di nascita

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Telefono cellulare

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Indirizzo Pec

Incarico attuale

**ISTRUZIONE
E FORMAZIONE**

- Date (da – a)
- Nome e tipo di istituto di istruzione o formazione
- Qualifica conseguita

1983-1989: Corso di laurea in ingegneria civile

1995-2001: Corso di laurea in matematica

Università di Udine, Università di Trieste

Laurea in ingegneria civile, laurea in matematica

ESPERIENZA LAVORATIVA

- Date (da – a)
- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

DAL DICEMBRE 2003 AD OGGI

Università di Udine, via Palladio 8, 33100 Udine

Istruzione universitaria

Professore ordinario di Scienza delle costruzioni

Attività di ricerca, didattica e organizzativa

MADRELINGUA

Italiano

ALTRE LINGUE

- Capacità di lettura
- Capacità di scrittura
- Capacità di espressione orale

[Inglese]

[buono]

[buono]

[buono]

**CAPACITÀ E COMPETENZE
TECNICHE**

*Con computer, attrezzature
specifiche, macchinari, ecc.*

Nella sua attività scientifica e di ricerca, il sottoscritto ha trattato problemi inversi generali e applicati nell'identificazione strutturale tramite metodi non distruttivi, come l'identificazione del danno in sistemi vibranti, l'identificazione di inclusioni in corpi elastici e la caratterizzazione di travi isospettrali e quasi-isospettrali. Su questi argomenti il sottoscritto ha sviluppato un'ampia attività sperimentale sull'uso di tecniche di analisi modale per il monitoraggio, l'identificazione strutturale e la rilevazione del danno, con applicazioni a modelli di media scala (travi, telai) e a strutture in scala reale (edifici, camini, ponti, serbatoi d'acqua). In passato, ha studiato problemi teorici per strutture sottili in elasticità lineare, dando una giustificazione di alcune teorie classiche per la determinazione del campo di stress in tubi sottili.

I suoi più recenti interessi di ricerca riguardano la modellazione di sistemi vibranti complessi, come nanotravi e ragnatele, e l'identificazione delle loro proprietà meccaniche tramite misure dinamiche non distruttive. Questo studio è sviluppato in collaborazione con gruppi di ricerca del Dipartimento di Meccanica del Continuum e Analisi Strutturale dell'Università Carlos III di Madrid, Spagna, e della Scuola Politecnica dell'Università di San Paolo, Brasile.

I risultati della sua ricerca sono stati pubblicati su importanti riviste internazionali. È autore di circa centoventi articoli pubblicati su riviste internazionali peer-reviewed, che hanno ricevuto 2.560 citazioni; l'indice h personale è pari a 29 (da Web of Science; maggio 2023).

**ALTRO (PARTECIPAZIONE A
CONVEGNI, SEMINARI,
PUBBLICAZIONI,
COLLABORAZIONI A
RIVISTE,ECC. ED OGNI ALTRA
INFORMAZIONE CHE IL
COMPILANTE RITIENE DI
DOVER PUBBLICARE)**

(Si veda più sotto)

• **Articoli pubblicati su riviste internazionali con processo di revisione anonima**

- J1 DAVINI C., GATTI F., MORASSI A., A damage analysis of steel beams, *Meccanica* 28 (1993) 27-37.
- J2 MORASSI A., Crack-induced changes in eigenparameters of beam structures, *ASCE Journal of Engineering Mechanics* 119(9) (1993) 1798-1803.
- J3 DAVINI C., MORASSI A., ROVERE N., Modal analysis of notched bars: tests and comments on the sensitivity of an identification technique, *Journal of Sound and Vibration* 179(3) (1995) 513-527.
- J4 MORASSI A., Torsion of thin tubes: a justification of some classical results, *Journal of Elasticity* 39 (1995) 213-227.
- J5 GLADWELL G.M.L., MORASSI A., On isospectral rods, horns and strings, *Inverse Problems* 11(3) (1995) 533-554.
- J6 MORASSI A., ROVERE N., Localizing a Notch in a Steel Frame from Frequency Measurements, *ASCE Journal of Engineering Mechanics* 123(5) (1997) 422-432.
- J7 MORASSI A., A uniqueness result on crack location in vibrating rods, *Inverse Problems in Engineering* 4 (1997) 231-254.
- J8 BISCONTIN G., MORASSI A., WENDEL P., Asymptotic separation of the spectrum in notched rods, *Journal of Vibration and Control* 3 (1998) 397-410.
- J9 MORASSI A., Torsion of thin tubes with multicell cross-section, *Meccanica* 34 (1999) 115-132.
- J10 MORASSI A., An asymptotic analysis of the flexure problem for thin tubes, *Mathematics and Mechanics of Solids* 4 (1999) 357-390.
- J11 GLADWELL G.M.L., MORASSI A., Estimating damage in a rod from changes in node positions, *Inverse Problems in Engineering* 7(3) (1999) 215-233.
- J12 BISCONTIN G., MORASSI A., WENDEL P., Vibrations of steel-concrete composite beams, *Journal of Vibration and Control* 6 (2000) 691-714.
- J13 MORASSI A., Structural identification of a steel frame from dynamic test-data, *Structural Engineering and Mechanics* 11(3) (2001) 237-258.
- J14 MORASSI A., Identification of a crack in a rod based on changes in a pair of natural frequencies, *Journal of Sound and Vibration* 242(4) (2001) 577-596.
- J15 MORASSI A., ROLLO M., Identification of two cracks in a simply supported beam from minimal frequency measurements, *Journal of Vibration and Control* 7(5) (2001) 729-740.
- J16 ALESSANDRINI G., MORASSI A., Strong Unique Continuation for the Lamè System of Elasticity, *Communications in Partial Differential Equations* 26(9/10) (2001) 1787-1810.
- J17 MORASSI A., ROCCHETTO L., A damage analysis of steel-concrete composite beams via dynamic methods. Part I: Experimental results, *Journal of Vibration and Control* 9 (2003) 507-527.
- J18 DILENA M., MORASSI A., A damage analysis of steel-concrete composite beams via dynamic methods. Part II: Analytical models and damage detection, *Journal of Vibration and Control* 9 (2003) 529-565.
- J19 MORASSI A., DILENA M., On point mass identification in rods and beams from minimal frequency measurements, *Inverse Problems in Engineering* 10(3) (2002) 183-201.
- J20 CABIB E., FREDDI L., MORASSI A., PERCIVALE D., Thin notched beams, *Journal of Elasticity* 64(2/3) (2001) 157-178.
- J21 ALESSANDRINI G., MORASSI A., ROSSET E., Detecting an inclusion in an elastic body by boundary measurements, *SIAM Journal on Mathematical Analysis* 33(6) (2002) 1247-1268.
- J22 DILENA M., MORASSI A., Identification of crack location in vibrating beams from changes in node positions, *Journal of Sound and Vibration* 255(5) (2002) 915-930.
- J23 ALESSANDRINI G., MORASSI A., ROSSET E., Detecting cavities by electrostatic boundary measurements, *Inverse Problems* 18 (2002) 1333-1353.
- J24 DILENA M., MORASSI A., Detecting cracks in a longitudinally vibrating beam with dissipative boundary conditions, *Journal of Sound and Vibration* 267 (2003) 87-103.
- J25 MORASSI A., ROSSET E., Detecting rigid inclusions, or cavities, in an elastic body, *Journal of Elasticity* 73 (2003) 101-126.
- J26 ALESSANDRINI G., MORASSI A., ROSSET E., Size estimates, *Contemporary Mathematics* 333 (2003) 1-33.
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- J28 DILENA M., MORASSI A., Damage identification in beams from changes in nodes of mode shapes, *Noise & Vibration Worldwide* 35(3) (2004) 15-20.
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- J30 MORASSI A., ROSSET E., Stable determination of cavities in elastic bodies, *Inverse Problems* 20(2) (2004) 453-480.
- J31 ALESSANDRINI G., MORASSI A., ROSSET E., Detecting an inclusion in an elastic body by boundary measurements, *SIAM Review* 46(3) (2004) 477-498.
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- J42 MORASSI A., NAKAMURA G., SHIROTA K., SINI M., A variational approach for an inverse dynamical problem for composite beams, *European Journal of Applied Mathematics* 18(1) (2007) 21-55.
- J43 FREDDI L., MORASSI A., PARONI R., Thin-walled beams: a derivation of Vlassov theory via Γ -convergence, *Journal of Elasticity* 86 (2007) 263-296.
- J44 MORASSI A., Damage detection and generalized Fourier coefficients, *Journal of Sound and Vibration* 302(1-2) (2007) 229-259.
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- J46 MORASSI A., TONON S., Dynamic testing for structural identification of a bridge, *ASCE Journal of Bridge Engineering* 13(6) (2008) 573-585.
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- J48 MORASSI A., TONON S., Experimental and analytical study of a steel-concrete bridge, *Journal of Vibration and Control* 14(6) (2008) 771-794.
- J49 DILENA M., MORASSI A., Vibrations of steel-concrete composite beams with partially degraded connection and applications to damage detection, *Journal of Sound and Vibration* 320 (2009) 101-124.
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- J51 MORASSI A., NAKAMURA G., SHIROTA K., SINI M., Numerical method for an inverse dynamical problem for composite beams, *Journal of Physics: Conference Series* 73 (2007) Paper 012015 (pp20).
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- J58 MORASSI A., ROSSET E., Unique determination of unknown boundaries in an elastic plate by one measurement, *Comptes Rendus de l'Académie des Sciences, série II: Mécanique, Special Issue on Inverse Problems in Solid Mechanics* 338 (2010) 450-460; DOI: 10.1016/j.crme.2010.07.011.

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- J60 MORASSI A., Dynamic testing and structural identification of the Hypo Bank Office complex. Part I: Experiments, *Journal of Structural Engineering ASCE* 137(12) (2011) 1527-1539; DOI:10.1061/(ASCE)ST.1943-541X.0000387.
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- J62 DILENA M., MORASSI A., Dynamic testing of a damaged bridge, *Mechanical Systems and Signal Processing* 25(5) (2011) 1485-1507.
- J63 CALIO' I., GLADWELL G.M.L., MORASSI A., Families of beams with a given buckling spectrum, *Inverse Problems* 27(4) (2011) 045006 (16 pp.) DOI:10.1088/0266-5611/27/4/045006; ISSN 0266-5611.
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- J66 DILENA M., FEDELE DELL'OSTE M., MORASSI A., Detecting cracks in pipes filled with fluid from changes in natural frequencies, *Mechanical Systems and Signal Processing* 25(8) (2011) 3186-3197, DOI: 10.1016/j.ymsp.2011.04.013.
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- J68 DILENA M., MORASSI A., PERIN M., Dynamic identification of a reinforced concrete damaged bridge, *Mechanical Systems and Signal Processing* 25(8) (2011) 2990-3009, DOI: 10.1016/j.ymsp.2011.05.016.
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- J73 CADDEMI S., MORASSI A., Multi-cracked Euler-Bernoulli beams: mathematical modelling and exact solutions, *International Journal of Solids and Structures* 50(6) (2013) 944-956, DOI: 10.1016/j.ijsolstr.2012.11.018
- J74 MORASSI A., ROSSET E., VESSELLA S., Recent results about the detection of unknown boundaries and inclusions in elastic plates, *Journal of Inverse and Ill-Posed Problems* 21(2) (2013) 311-352; DOI: 10.1515/jip-2012-0068.
- J75 BEDON C., MORASSI A., Dynamic testing and parameter identification of a base-isolated bridge, *Engineering Structures* 60 (2014) 85-99; DOI: 10.1016/j.engstruct.2013.12.017.
- J76 MORASSI A., Exact construction of beams with a finite number of given natural frequencies, *Journal of Vibration and Control* 21(3) (2015) 591-600; DOI: 10.1177/1077546313488616.
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- J88 RUBIO L., Fernández-Sáez J., MORASSI A., Point mass identification in rectangular plates from minimal natural frequency data, *Mechanical Systems and Signal Processing* 80 (2016) 245-261; DOI: 10.1016/j.ymsp.2016.04.025.
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- J93 Fernández-Sáez J., MORASSI A., RUBIO L., Crack identification in elastically restrained vibrating rods, *International Journal of Non-Linear Mechanics, Special Issue "Nonlinear Dynamics: A Conspectus and a Festschrift for Professors G. Rega and F. Vestroni"*, 94 (2017) 257-267; DOI: 10.1016/j.ijnonlinmec.2017.03.018.
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- J98 RUBIO L., Fernández-Sáez J., MORASSI A., Exact eigensolutions for a family of non-uniform rods with end point masses, *Journal of Vibration and Acoustics-Transaction of the ASME* 139(5) (2017) Paper number 051018 (7 pages); DOI: 10.1115/1.4036467.
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- anisotropic Kirchhoff-Love plate, *SIAM Journal of Mathematical Analysis* 51(2) (2019) 731–747; DOI: 10.1137/18M1203286.
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