Angelo Luongo

Professor of Solid and Structural Mechanics

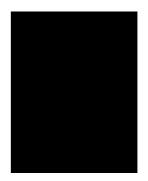
Born in

Italian Citizen

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EDUCATION

1989_1990

1978 Master Degree cum laude in Civil Engineering, at "La Sapienza" University (Rome)

Scholarship of the Italian National Research Council, CNR 1978-1981

ACADEMIC POSITIONS

Assistant Professor at "La Sapienza" University, Rome 1981-1988

Associate Professor at LìAquila University 1988-1990

1990-date Professor at L'Aquila University

ACADEMIC RESPONSABILITIES

1707-1770	Coordinator of the educational committee of the Engineering School of E Aquita
1994-2003	Head of Department of Civil Engineering (DISAT)
1997-2003	Member of the University Senate of L'Aquila
1989-2000	Member of the doctorate school of "Structural Mechanics" of La Sapienza and
	L'Aquila Universities associated
2000	Co-Founder and Coordinator of the Master Course of "Mathematical Engineering" of
	University of L'Aquila
2000-date	Co-Founder and Member of the doctorate school of "Mathematical Models for
	Engineering" of University of L'Aquila

Coordinator of the educational committee of the Engineering School of L'Aquila

Engineering" of University of L'Aquila

2007-2011 Pro-Rector for relationships with industries

Founder and Head of the International Research Center on Mathematics and 2010-date

Mechanics of Complex Systems, "M&MOCS"

2010-date Director of the "Laboratory of Testing of Material and Structures" of M&MOCS

2011-2012 Vicar Pro-Rector

2015-date Head of "Department of Civil, Architectural and Environmental Engineering"

(DICEAA)

2015-date Member of the University Senate of L'Aquila

ADMINISTRATIVE RESPONSABILITIES

2008-2011	Member of the Administrative Board of the IAM-Innovative Automotive Mechanics
	Consortium

Vice-President of the Administrative Board of the IAM-Innovative Automotive 2011-2012

Mechanics Consortium

2015-date President of the Administrative Board of the Academic Spin-off "Diagnostic,

Retrofitting, Innovation, Materials and Structures" (DRIMS)

PROFESSIONAL RESPONSABILITIES

2011-2012 Member of the Administrative and Technical Committee of the Public Work Regional Department

SCIENTIFIC LEADERSHIPS

2007-2009	Coordinator of the Scientific Consortium SICON, financed by the EU (contract
	MSFC-CT-2006-046177, Marie Curie Conferences and Training Courses)
2007-2008	Coordinator of an international team financed by EU (INTAS Collaborative Call
	with the Russian Academy of Science, Ref Nr 06-1000013-909)
2012-date	Coordinator of the Aimeta's group "Dynamics and Stability" (GADeS)
1998-2012	Responsible of Research Unit of PRIN projects, financed by the Italian Ministry of
	Education (MIUR) in: 1998, 2000, 2002, 2004, 2006, 2008 (biennial projects)
2012-2015	Principal Investigator of a PRIN triennial project

EDITORIAL BOARD MEMBERSHIPS

2007-2011	Associate editor of the International Journal "Mathematical Problems in
	Engineering" (Hindawi)
2012-date	Member of the Advisory Board of the International journal "Mathematics and
	Mechanics of Complex Systems" (MSP, Berkeley)
2012-2013	Member of the Editorial Board of the Journal "Open Aerospace Engineering
	JournaL' (Benthaam)
2013-date	Member of the Editorial Advisory Board of "Modern Mechanics and Mathematics"
	book series (Taylor & Francis)
2014-date	Associate Editor of "Nonlinear Dynamics" (Springer)
2015-date	Member of the Editorial Board of the "International Journal of Nonlinear Dynamics
	and Control' (InderScience)
2016-date	Associate Editor of "Journal of Applied and Computational Mechanics" (Shahid
	Chamran University of Ahvaz, Iran)

TEACHING AND DISSEMINATION ACTIVITIES

Organization of schools

- "Stability of equilibrium", Rome 1988;
- "Nonlinear Dynamics", Rome 1990;
- "Stability and Bifurcations of Nonlinear Dynamical Systems" (Marie Curie Conference), L'Aquila, 2007
- "Beam and Cable Nonlinear Mechanics", Genoa, 2014;
- "Dynamic Stability and Control of Flexible Structures", Sperlonga (Italy) 2013;
- "Seismic Dynamics", Messina 1991, Pescara 1996.

Organization of conferences

1. Co-organizer of the Minisimposium "Passive control of structures via nonlinear energy sinks", CSNND 2012, April 30-May 2, 2012, Marrakech, Morocco.

- 2. Co-organizer of the Minisimposium "Dynamical systems, stability and bifurcation ", XXI AIMETA Conference, September 17-20, 2013, Turin, Italy.
- 3. Co-organizer of the Minisimposium "New vibration absorbers and control devices: Piezo-electric systems, energy harvesting and nonlinear energy sinks", CSNND 2014, May 19-21, 2014, Agadir, Morocco.
- 4. Co-organizer of the Minisimposium "Dynamics and Stability of mechanical systems", XXII AIMETA Conference, September 14-7, 2015, Genoa, Italy.
- 5. Chair of the EuroMech Colloquium 562 "Stability and Control of Nonlinear Vibrating Systems, 24-28 May, 2015, Sperlonga, Italy.

RESEARCH ACTIVITY

Main fields of interest:

Linear and Nonlinear Dynamics: Suspended cables, Beams, Tethered Satellite Systems, Linear

and nonlinear spatially-periodic systems, Nonlinear Energy

Sinks, Travelling masses/forces;

Buckling and Postbuckling: Systems of Beams, Thin-Walled Beams, Nearly-simultaneous

buckling modes;

Aeroelasticity: Stability of nonlinear discrete and continuous systems, Passive

control by Tuned Mass Dampers and Nonlinear Energy Sinks;

Dynamic instability: Follower forces, Ziegler Paradox, Nicolai Paradox, Piezo-

Electro-Mechanical beams, Nonlinear effects

Perturbation Methods: Eigenvalue sensitivity for defective and nearly-defective

dynamical systems, Algorithms for multiple static/dynamic bifurcations, Singular systems, Discrete-time systems;

Linear and nonlinear systems in buckling and dynamics.

Computational Mechanics: Finite Strips, Generalized Beam Theory (GBT).

Papers authored/co-authored

In international journals: about 110 (indexed by Scopus) about 15 (indexed by Scopus)

Bibliometric indexes

h-index: 30 (Scopus 01/08/2017)

number of citations: 2245 (Scopus 01/08/2017)

Educational Books

- 1. Luongo, A., Paolone, A., Meccanica delle Strutture: Sistemi rigidi ad elasticità concentrata, MASSON, Milano, 1997.
- 2. Luongo, A., Paolone, A., Scienza delle Costruzioni. Vol. 1: Il Continuo di Cauchy, CEA, Milano, 2004.
- 3. Luongo, A., Paolone, A., Scienza delle Costruzioni. Vol. 2: Il Problema di De Saint Venant, CEA, Milano, 2005.

Scientific Books

1. Pignataro, M., Rizzi, N., Luongo, A., Stabilità, Biforcazione e comportamento Postcriticodelle Strutture Elastiche, ESA, Roma, 1983.

- 2. Pignataro, M., Rizzi, N., Luongo, A., Bifurcation, Stability and Postcritical behaviour of elastic structures, Elsevier Science Publishers, Amsterdam, 1990.
- 3. Luongo, A., Zulli, D., Mathematical Models of Beams and Cables. Wiley-ISTE, 2014,ISBN: 978-1-84821-421-7.

Special Issues and Volumes

- 1. Editor of the book "Recent Research Developments in Sound & Vibration", *Transworld Research Network*, Kerala, India, ISBN:81-7736-186-4, 2003.
- 2. Guest editor of the Special Issue "Advances in dynamics, stability and control of mechanical systems", *Meccanica*, 2015, DOI 10.1007/s11012-014-0089-5.
- 3. Guest editor (with S. Lenci) of the Special Issue "Dynamics and ControL', *Int. Journal of Nonlinear Mechanics*, 2016 (to appear).
- 4. Guest Editor (with S. Casciati) of the Special Issue "Recent developments in structural nonlinear dynamics", *Nonlinear Dynamics*, 2016 (to appear).
- 5. Guest Editor (with S. Casciati) of the Special Issue "Mathematical models for dynamics and stability of materials and structures", *Int. Journal of Mathematics and Mechanics of Solids*", 2016 (to appear).
- 6. Guest Editor (with S. Casciati) of the Special Issue "Control of nonlinear systems", *Int. Journal of Smart Structures and Systems*", 2016 (to appear).
- 7. Guest editor (with G. Rega) of the Special Issue "Nonlinear Dynamics, Identification and Monitoring of Structures (dedicated to the memory of F. Benedettini)", *Meccanica*, 2016 (to appear).

Invited and plenary lectures

- 1. ENOC 2002- 4th European Nonlinear Oscillations Conference Moscow 2002, Russia
- 2. CIMS2008 Coupled Instabilities in Metal Structures, University of Sydney, Australia, 2008
- 3. DINCON"2010 9th Brazilian Conference on Dynamics, Control and Their Applications, Universidade Estadual Paulista "Júlio de Mesquita Filho", Brazil, 2010
- 4. PHYSCON 2011, Minisymposium on "Stability Problems with Applications in Physics and Mechanics", Leon, Spain, 2011
- 5. CanCNSM2013, 4th Canadian Conference on Nonlinear Solid Mechanics, Montreal, Canada, 2013
- 6. ICONNE 2015, International Conference on Nonlinear Dynamics, Chaos, Control and Applications to Engineering, Rio de Janeiro, Brazil, 2015

Reviewer activity

Reviewer of several international journals, including: Applied Mathematical Modelling, Communications in Nonlinear Science and Numerical Simulation, Computers and Structures, Continuum Mechanics and Thermodynamics, Engineering Failure Analysis, European Journal of Mechanics, Int. J. Damage Mechanics, Int. J. Mechanical Science, Int. J. Mechanical Sciences, Int. J. Nonlinear Mechanics, Int. J. of Bifurcation and Chaos, Int. J. of Solids and Structures, J. Applied Mechanics, J. Engineering Mechanics, J. of Computation and Applied Mathematics, J. of Computation and Nonlinear Dynamics, J. of Fluid and Structures, J. of Mathematical Biology, J. of Mechanics of Materials and Structures, J. of Sound and Vibration, J. of Vibration and Acoustics, J. of Vibration and Control, Mathematics and Mechanics of Solids, Meccanica, Nonlinear Dynamics, Thin-Walled Structures, ZAMM, ZAMP.

TRAINING ACTIVITY

As PhD supervisor:

A. Paolone (now Full Professor at Univ. of Rome "Sapienza")

- A. Di Egidio (now Associate Professor at Univ. of L'Aquila)
- V. Gattulli (now Associate Professor at Univ. of L'Aquila)
- F. Di Fabio (now Assistant Professor at Univ. of L'Aquila)
- F. Di Tomasso (now Professional Engineer)
- G. D'Amore (now Technician at Univ. of Rome "Sapienza")
- D. Zulli (now Assistant Professor at Univ. of L'Aquila)
- A. De Simone (now Professional Engineer)
- F. D'Annibale (now Researcher at Univ. of L'Aquila)
- M. Ferretti (now Post-doc at Univ. of L'Aquila)

As post-doc supervisor:

- F. Romeo (now Associate Professor at Univ. of Rome "Sapienza")
- M. Vasta (now Associate Professor at Univ. of Chieti-Pescara)
- S. Bruno (now Professional Engineer)
- M. Lepidi (now Assistant Professor at Univ. of Genoa)
- A. Contento (now Post-doc at Univ.of Illinois Urbana-Champaign)

As hosting research leader:

- M. Arkhipova (Associate Professor at S. Petersburg Univ.)
- A.O. Belyakov (Senior Research Fellow, Lomonosov Moscow State Univ.)
- A. Mailybaev (Professor, IMPA, Rio de Janeiro, Brasil)
- G. Ranzi (Professor at Univ. of Sydney)