

MUZIO M. GOLA

EMERITUS PROFESSOR OF THE POLITECNICO DI TORINO

SOCIO CORRISPONDENTE – ACCADEMIA DELLE SCIENZE DI TORINO

POLITECNICO DI TORINO

DIMEAS - DIPARTIMENTO DI INGEGNERIA MECCANICA E AEROSPAZIALE

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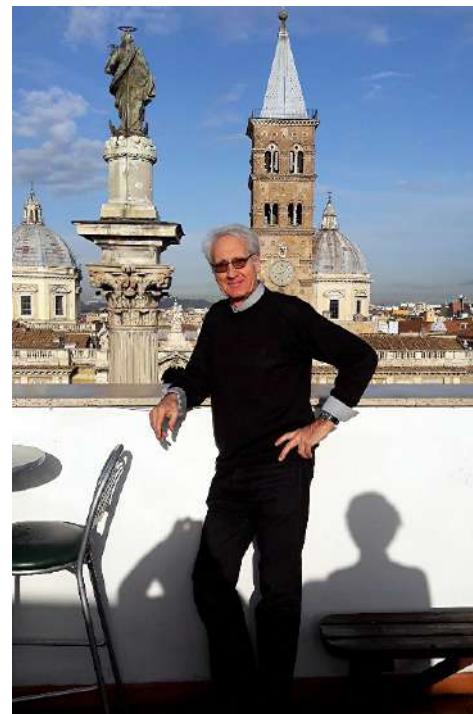
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SCOPUS AUTHOR ID: 7006108085



Scientific area

0009-Industrial and information engineering

Nationality

Italian

Date of birth

30.5.1946

POSITIONS, history

until 31/10/2016, Full Professor of Machine Design (Costruzione di Macchine) ING-IND / 14, Dept. DIMEC (Dept. of Mechanics) later DIMEAS, Politecnico di Torino

appointed full professor on 5.15.1987, permanent confirmation on 5.16.1990.

from 11/80 to 5/87, Associate Professor of Machine Design, DIMEC (Dept. of Mechanics), Politecnico di Torino

from 8/73 to 11/80, Assistant Professor to the Chair of Construction of Machines and Technologies, Istituto della Motorizzazione, Politecnico di Torino

from 11/71 to 8/73, Istituto di Macchine, Politecnico di Torino, Researcher

EDUCATION

- 1965/71
- 1960/65

Politecnico di Torino, "Laurea" in Mechanical Engineering on 30.7.1971, Torino, Italy
Liceo Scientifico Orazio Grassi (Scientific High School), Savona, Italy

PERSONAL SKILLS

MOTHER TONGUE

ITALIANO

OTHER LANGUAGES

| Language | Read | Understood | Spoken/written |
|----------|-------|------------|----------------|
| English | ◆◆◆◆◆ | ◆◆◆◆ | ◆◆◆◆ |
| French | ◆◆◆◆◆ | ◆◆◆◆ | ◆◆◆ |
| Spanish | ◆◆◆◆ | ◆◆◆ | ◆◆ |
| German | ◆◆ | ◆ | ◆ |

QA, EVALUATION AND ACCREDITATION

Quality Assurance, Evaluation and Accreditation activities from p. 22 , highlighted with a gray background.

PROFESSIONAL ACTIVITY

Since 1978, regular activity as a forensic technical expert for Courts, Prosecutors and private clients. On matters relating to mechanical design, safety of structures and machinery, analysis of accidents at work and compliance with safety regulations; important experience from the non-academic world.

**SERVICE ACTIVITIES
AT POLITECNICO DI
TORINO**

- From 2014 to 2016.10, member of the University Quality Presidium
- from 2012.03 to 2016.10, Vice-Rector for Quality
- 2008, appointment by the Dean of the I Faculty of Engineering, member of the Emeritus Professorship Committee
- from 2007 to 2016, Director, CEQUA-University Quality Center
- from 2005 to 2012, Vice-Rector for Quality, Evaluation and Accreditation
- from 2005.12 to 2006.30, rectoral appointment to the Bibliometric Criteria Committee
- from 2003 to 2007, Member of the University Resources Commission - CRA
- from 2003 to 2007, Director, DIMEC - Department of Mechanics,
- from 2002 to 2005, Rector's Delegate for Quality, Evaluation and Accreditation of Teaching
- from 2000.10 to 2002.4 member of the Executive Committee for Educational and Research Self-Assessment
- from 1999 to 2002, Vice Dean, 1st Faculty of Engineering
- from 1994 to 1999, President of the CPD, Joint Committee for Didactics
- 1993, member of the Joint Committee for Didactics
- 1992, member of the Committee for relations with the Academy of Sciences of the former Soviet Union
- from 1990 to 2003 Coordinator of the PhD course "Design and Construction of Machines"
- from 1985/86 to 1996/97, member of the Board of DIMEC - Department of Mechanics
- 1981-1992, member of the University Commission for Departmental Experimentation

**CO-ORDINATION
RESPONSIBILITIES**

- 2012 Coordination of the operations for the quality certification and EUR-ACE Accreditation of the CdS: CL* in Aerospace Engineering, CLM in Aerospace Engineering, CL in Automotive Engineering, CLM* in Automotive Engineering, CL in Building Engineering, CLM in Building Engineering, CL in Electronics Engineering, CLM in Electronics Engineering
- from 2008.3.21 to the end of 2009, coordination of the Quality Assurance Group for the development of the INFORMATION MODEL (of QA) on-line at the Politecnico di Torino (all CdS)
- from 2004 to 2016: founder and leader of the DIMEC section of the LAQ (High Quality Laboratory) "AERMEC"
https://www.dimeas.polito.it/en/research/research_groups/laq_aermec_for_gas_turbine_and_compressor_blades
- from 2003 to 2007, development of the Operating Manual for the Accreditation of the operating offices Macrotype B (Piedmont Region) and coordination / preparation for the accreditation visits and subsequent six-monthly surveillance visits to the Polytechnic of Turin
- from 1997 to 2000 and from 2001 to 2003, Scientific coordinator of the joint FIAT AVIO / Politecnico di Torino project on vibration and damping of blades and on thermal transients and fatigue in aircraft engine discs
- from 1989 to 1994, Scientific manager of the sub-project "Robotic Structures - Modular Structures - Light Modular Robots" of the CNR "Robotics" Program, contract "Robot in composite materials: innovative projects and their dynamic evaluation"
- from 1997/98 to 2013-14, Coordinator of the TOP-UIC joint degree program of the Politecnico di Torino and UIC, University of Illinois at Chicago
- from 7/1988 to 9/1988 and from 7/1989 to 10/1989, missions in Srinagar, Kashmir - India, Executive Coordinator of the cooperation program "Program for the establishment of Maintenance Engineering Center", Italian Ministry of Foreign Affairs and Regional Eng . College Srinagar (*laboratory design, choice of equipment, supervision of the design of the new building, coordination of teaching activities held in Srinagar*)

* NOTE: CL=Bachelor degree course, CLM: Master Degree Course

¹ See last page

TEACHING

- 2011-12 to 2016-01 , “**Costruzione di motori per aeromobili**” (Aircraft engine construction), LM “Ingegneria Aerospaziale”, Politecnico di Torino
- 2011-12 to 2016-06 , “**Machine design**”, LM “Ingegneria Meccanica”, english language track, Politecnico di Torino
- 2012 and 2014, lectures of the module "The design of engine sub-systems: turbine, combustor and mechanical transmissions", of the Master Univ. II Level in Propulsion Systems Engineering (AVIO Group); supervision of n. 4 "Case Studies"
- 2006, 2007, development of material and recordings for the CETEM-POLITO distance course **Mechanical Behavior of Materials**,
http://corsiadistanza.polito.it/on-line/CMM_fly/index.htm
<http://corsiadistanza.polito.it/diplomi/mediateca/cdrom.php>
- 1997/98 to 2010-11, **Current topics in mechanical engineering** , “TOP-UIC” joint degree program of POLITO and University of Illinois Chicago
- 1992/93 to 2010-11, **Costruzione di macchine (Machine Design)**, CLM “Ingegneria Aerospaziale”, Politecnico di Torino
- 1995/96 to 2009/10, **Comportamento meccanico dei materiali**, CLM “Design del prodotto eco-compatibile”, Politecnico di Torino
- 1996, 1997, development of material and recordings for the NETTUNO distance course **Comportamento Meccanico dei Materiali e Affidabilità e Sicurezza delle Costruzioni Meccaniche** (“Mechanical Behavior of Materials” and “Reliability and Safety of Mechanical Constructions”)
- 1992/93 to 1997/98, **Affidabilità e Sicurezza delle Costruzioni Meccaniche** (Reliability and Safety of Mechanical Constructions), CL “Ing. Gestionale”, Politecnico di Torino
- 1984/85 e 1985/86, **Costruzione di macchine** (Machine Design), CLM “Ing. Meccanica”, sede di Novara del Politecnico di Torino
- 1980/81 to 1991/92, **Costruzione di Macchine per l'Industria Chimica** (Mechanical Design for the Chemical Industry), CLM “Ing. Chimica”, Politecnico di Torino
- 7/1981 to 12/1981 and 7/1983 to 12/1983, **Costruzione di Macchine** (Machine Design), National University of Somalia in Mogadishu (program commissioned by the Italian Ministry of Foreign Affairs)
- 1979/80 e 1980/81, **Analisi Strutturale dei Componenti Nucleari** (Structural Analysis of Nuclear Components) CLM “Ing. Nucleare”, Politecnico di Torino
- 1976/77 to 1978/79, **Meccanica Biomedica**, (Biomedical Mechanics) Politecnico di Torino

| Ac. year | module name | code | type | Module ranking | Teacher ranking | % partic. |
|--|--------------------------------------|---------|------|----------------|--------------------------|---------------------------------|
| | | | | | Average of all questions | Ave. D9 - D10 - D11 - D12 - D13 |
| 2015/16 | Machine design | 03MCHQD | CLM | 3,52 | 3,76 | 0,41 |
| 2015/16 | Costruzione di motori per aeromobili | 01LKCMT | CLM | 3,43 | 3,80 | 0,52 |
| 2014/15 | Machine design | 03MCHQD | CLM | 3,56 | 3,65 | 0,29 |
| 2014/15 | Costruzione di motori per aeromobili | 01LKCMT | CLM | 3,4 | 3,94 | 0,47 |
| 2013/14 | Machine design | 03MCHQD | CLM | 3,54 | 3,74 | 0,31 |
| 2013/14 | Costruzione di motori per aeromobili | 01LKCMT | CLM | 3,51 | 3,92 | 0,59 |
| 1-lowest 4-highest | | | | | | |
| in APPENDIX 1 - COMMENTS STUDENTS 2015-16, in APPENDIX 2 – RADAR DIAGRAMS STUDENT OPINIONS | | | | | | |

RESEARCH INTERESTS IN ENGINEERING SCIENCES

My research was initially, 1975, characterized by biomechanics, in particular ballisto-cardiography, hip replacement design, gait analysis. Research sector closed around 1983, except for investigations on external fixators for bone fractures in the early 1990s.

Later my research concerned X-ray diffractometry, and ultrasonic techniques; professional experiences on non-destructive tests (NDE): X-rays, Ultrasound, Penetrants, Magnetoscopy, (ASNT level II qualification for ultrasound examinations)

In the period 1989-1994, I was Scientific Responsible of the sub-project "Robot Structure - Modular Structures - Light Modular Robots" in the "Robotics" Program of the CNR, contract "Robot in Composite Materials: innovative projects and their dynamic evaluation".

From 1997 to the present, the main area of research has focused on the mechanical aspects of the aircraft turbine engine, such as: vibration and damping of turbine blades, underplatform damper theory and experiment, contact mechanics in friction and wear up to 1000° Celsius, thermal transients and fatigue in aircraft engine bladed disks.

Since 2004, this research has been developed entirely within the LAQ (High Quality Laboratory) "AERMEC," of which I was the founder and team leader until 2016. Realization of original and innovative experimental equipment installed in the LAQ-AERMEC

RESEARCH AND TECHNOLOGICAL TRANSFER CONTRACTS PROJECTS, MANAGEMENT 2000 TO 2016

Total gross value of contracts 2004/2016: over 4 million € (APPENDIX 3)

Consultancy and research contracts

- 2015 (Johnson Electric Asti s.r.l.) Reliability analysis methods of PCBA (Printed Circuit Board Assembly) for fan brushless motors
- 2013-2014 (AVIO) Wear tests New alloys for Z-Notch
- 2013-2014 (AVIO) T800 wear tests for GE90
- 2013-2014 (GATE s.r.l. - Johnson Electric) Design and testing methodologies of electronic boards of electric motors for fans and conveyor fan system
- 2013-2014 (Mitsubishi-Hitachi) Research on friction damping and friction model at contact surfaces of turbine blades
- 2012-2013 (GATE s.r.l. - Johnson Electric) Test methodologies and analysis of thermal and mechanical fatigue for electronic control boards of electric fans
- 2012-2014 (GENERAL ELECTRIC - NUOVO PIGNONE) Extension of calculation codes for the dynamic analysis of steam turbine blades (HS blades and control stage)
- 2012-2014 (GENERAL ELECTRIC - NUOVO PIGNONE) Experimental tests for the characterization of wear on the roofs of low pressure blades HS for steam turbines
- 2012-2013 (GENERAL ELECTRIC - NUOVO PIGNONE) Control stage - Static test with two blades and different damper geometries - Numerical-experimental validation
- 2011 (GENERAL ELECTRIC - NUOVO PIGNONE) Analytical simulation of an exciting magnet for dynamic response tests on steam turbine blades
- 2010-2012 (GENERAL ELECTRIC - NUOVO PIGNONE) Numerical and experimental investigations on HS low pressure blades for steam turbines
- 2009-2011 (AVIO) Partnership - Development of advanced methodologies for the prediction and experimental verification of the wear behavior of surface coatings for new generation turbine applications
- 2008-2012 (AVIO) Study and development of calculation models and design of damper ring systems for aeronautical applications
- 2008, (LISA-POLAND) New technologies for sheet metal stamping

- 2007-2008 (RINALDI) Determination of the thermal reduction of a heat shield made of multi-layer sheet metal 2007-2010 (AVIO) Combined cycle fatigue tests on CMSX4 tubes within the European research program PREMECCY
- 2007-2007 (AVIO) Study of dynamic phenomena of the turbine blade disc in the presence of asymmetric effects (mistuning) - LAQ AERMEC
- 2007-2008 (AVIO) High temperature tribological survey for the evaluation of the damping parameters and related wear effect for aeronautical materials
- 2005-2006 (ALSTOM Ferroviaria) Support for the analysis of the results of predictive models of motion sickness and their correlation with experimental tests
- 2005-2006 (AVIO) Review of the design of the under blade dampers of the first stage of the LMS 100 IPT turbine
- 2004 (AVIO) Experimental and numerical evaluation of the damping due to the under blade dampers in the first stage of the LMS100 IPT turbine
- 2001-2004 (AVIO) Study of the optimization of the fatigue and vibrational behavior of critical components of turbomachinery
- 2001 (SKF Industrie S.p.A.) Design of calibration devices and execution of diffractometric measurements to determine the residual stress state in roll-bearing rings

PRIN-MIUR (national projects Ministry Education and Research)

- 2007-2009 Development and validation of models for damper-induced mistuning
- 2002-2004 Determination of friction parameters in vibrating contacts for passive dampers of aviation turbine blades: experimentation on dedicated benches, models of the contact and under-blade dampers, numerical validation of the dynamic response of blade systems in controlled laboratory conditions

European Union Research Projects

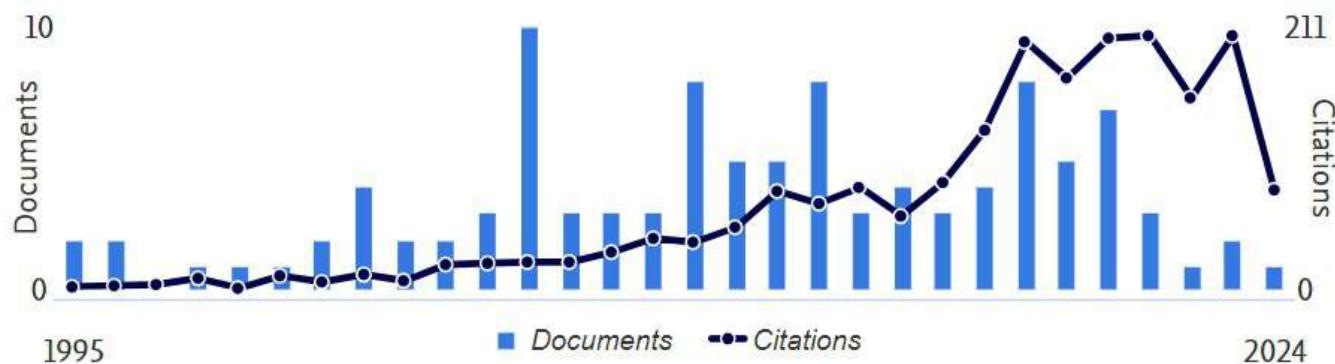
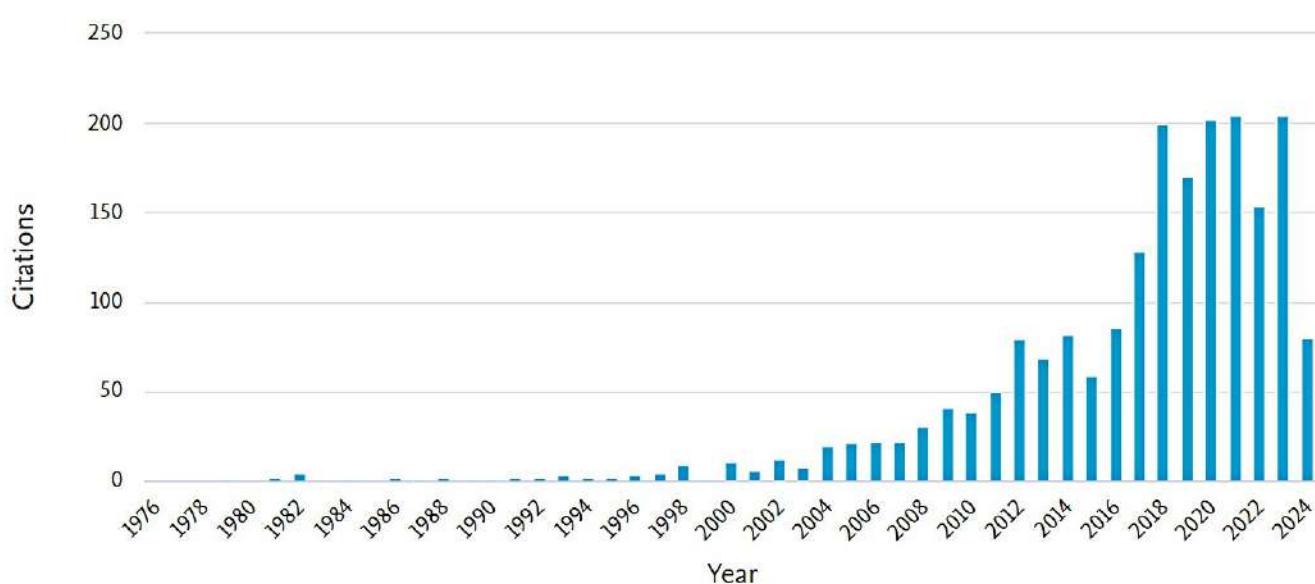
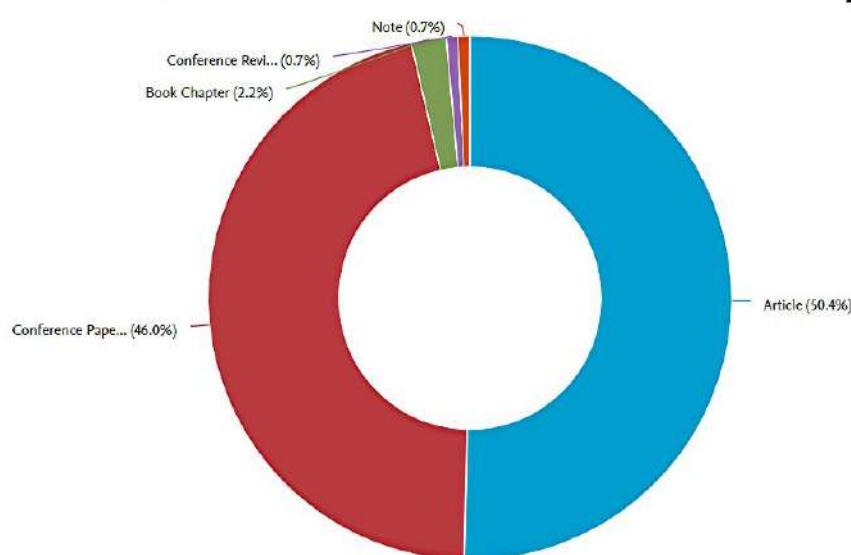
- 2012-2015 UPGRADE (Marie Curie) - complex dynamic interactions of nonlinear, multistage and localization phenomena in turbine engines: development and validation of efficient and accurate modeling techniques
- 2008-2012 FUTURE Flutter-Free Turbo machinery Blades - European Union 7th FP-UE (AVIO)
- 2008-2011 DREAM - Validation of radical engine architecture systems
- 2005-2009 VERDI - Virtual engineering for robust manufacturing with design integration
- 2005-2009 VITAL - Environmentally friendly aero engine

Research Projects on Regional and National Structural Funds

- 2014-2017, CLUSTER - Greening the propulsion
- 2012 - 2014 GREAT 2020 - fase 2 - Green engine for air traffic
- 2009 – 2011 GREAT 2020 - fase 1 - Green engine for air traffic
- 2007-2010 CORALE - Development of an integrated simulation system for the collaborative design of a low environment impact aeroengine
- 2005-2007 E10 - Models and design criteria for mistuning in turbomachinery

PARTICIPATION IN NETWORKS, MOST RECENT INTERNATIONAL AGREEMENTS

- 2017.05 - Associate Member of the Board of the "Joint Innovation lab on Joints Mechanics (JIJM)", established between NPU (Northwestern Polytechnical University, Xi'an. RPC) and POLITO-AERMEC for joint research on: Contact mechanics, Wear mechanics, Numerical modeling of friction damped system, Nonlinear dynamics of structure with localized nonlinearity.
- Co-organizer of the "1st NPU-POLITO WORKSHOP ON AEROSPACE ENGINEERING, 26-29 September 2011, 6NPU Xi'an China"
- Member (since 2006) of the international research group "Joint Mechanics" and regularly participates by invitation in the NSF-Sandia-AWE Joints Modeling Workshops (2009, 2012, 2015)

SCOPUS 2024.04.30 - Statistics on the 139 documents recorded since 1976**67 co-authors, 2039 citations from 1165 documents, h-index 25****Citations by year****2.039****Documents by type****139**

PAPERS IN ENGINEERING SCIENCES AND TECHNOLOGIES

- | N. | AUTHORS | TITLE | BIBLIOGRAPHICAL DATA |
|-----|---|--|----------------------|
| 1 | ANTONELLI E., GOLA M.M., - | "Motori rotativi a combustione interna", Enc. Ing., II-7.20, ISEDI, Milano, , 7.327-7.340, 1972 | |
| 2 | GOLA M.M. - | "Metodi numerici per la scelta fra profili di camme", ATA, 26-3, , 149-154, 1973.03 | |
| 3 | GOLA M.M. - | "Profili statorici di motori Wankel ottenuti per inviluppo", ATA, 26-6, 149-154, 1973.06 | |
| 4 | GOLA M.M. - | "Proposta per utilizzare le macchine della classe KKM-ka come motori endotermici", ATA, 27-8,, 426-432, 1974.08 | |
| 5a | CALDERALE P.M., GOLA M.M. - | "A new ULF-BCG: two degrees of freedom, air bearings, hyperboloidic surface", 4th World Congr. Ball. Card. Dyn., Amsterdam 1975; Biblthca Cardiol.,35, 75-81, Karger, Basel, 1976 | |
| 5b | | "Miglioramento dell'accoppiamento uomo-tavolo in ballistocardiografia", III Congr. Naz. AIMETA, Cagliari, 3/22. 1-22.12, 1976.10 | |
| 6 | CALDERALE P.M., GOLA M.M., | "Protesi interne di articolazione", Enciclopedia dell'Ingegneria, IX-2.1, ISEDI , Milano, 2.34-2.40, 1976 | |
| 7 | ATZORI B., GOLA M.M. - | "Sulla determinazione delle velocità critiche degli alberi rotanti", Ingegneria Meccanica, 25-1, 34-40, 1976.01 | |
| 8 | COLASURDO G., GOLA M.M.,- | "Caratteristiche cinematiche di elementi di tenuta in macchine KKM-ka 3/2", ATA, 29-3, 133-137, 1976.03 | |
| 9 | COSTANZO S., FERRARIS R., GOLA M.M., SINISTRERO G., SISMONDI P. - | "La radioterapia endocavitaria del carcinoma del collo dell'utero con apparecchio modellato e dosimetria con elaboratore", La Radiologia Medica, Vol. 62 n. 5, 369-380, 1976.05 | |
| 10 | GOLA M.M., LUGANO F. - | "Calcolo di sistemi tubieri piani: metodo di rigidezza e carichi nodali equivalenti", ICP, 5-6, 85-90, 1976.06 | |
| 11 | GOLA M.M. - | "Piattaforme dinamometriche per misure biomeccaniche", Tecnica Ospedaliera, 6-9, 52-58, 1976.09 | |
| 12 | GOLA M.M., VULLO V. - | "Analisi teorica di fondi curvi di forma superellittica", III Conv. Naz. AIMETA, Cagliari, 2/28.1-28.14, 1976.10 | |
| 13a | GOLA M.M. - | "Una nuova piattaforma dinamometrica: analisi teorica e sperimentale", III Conv. Naz. AIMETA, Cagliari, 3/23.1-23.12, 1976.10 | |
| 13b | | "A statically determinate force plate: theoretical analysis and experimental confirmation", First Mediterranean Conf., Medical Biological Engineering, Sorrento, I/1.33-1.36, 1977.09 | |
| 14 | CALDERALE P.M., GOLA.M.M., GUGLIOTTA.A.- | "Nuovi metodi dell'ingegneria per lo studio dell'accoppiamento osso-protesi", Tecnica Ospedaliera, n. 2, 1977.02 | |
| 15 | BELINGARDI G., GENTA G., GOLA M.M. - | "Optimization of orthotropic multilayer cylinders and rotating discs", L'Aerotecnica Missili e Spazio, 1977.03 link | |
| 16 | CALDERALE P.M., GOLA.M.M., GUGLIOTTA.A.- | "Ballistocardiografia e meccanica del sistema cardiovascolare", Tecnica Ospedaliera, 7-4, 40-47, 1977 04 | |
| 17 | GOLA.M., GUGLIOTTA .A. - | "Ballistocardiographic facilities at the "Politecnico di Torino", Experimental device and analysis techniques", Ist Mediterranean Conf. Medical Biological Engineering, Sorrento, I/1.107-1.109, 1977.09 | |
| 18a | BELINGARDI G., GENTA G., GOLA M.M. - | "Una applicazione del principio dei lavori virtuali al calcolo di dischi rotanti in materiale anisotropo", V Conv. Naz. AIAS, Bari, I/15.1-15.12, 1977.09-10 | |
| 18b | | "A study of the stress distribution in rotating orthotropic discs", Composites, 77-80,1979.04 | |
| 19 | BELINGARDI G., GENTA G., GOLA M. - | "Ovalization critical speeds in anisotropic rotating disks", 1977 Flywheel Technology Symp., 441-448, San Francisco, 1977.10 | |
| 20 | GOLA M.M., GUGLIOTTA A., VULLO V. - | "Rappresentazione e tolleranze di profili trocoidali", II Conv. Naz. ADM, St. Vincent, 1-III,23.1-23.12., 1978-03 | |
| 21 | GOLA M.M., GUGLIOTTA A. - | "Minimum average configuration for a set of "n" independent BGG events", 11th Europ. Congr. Ballist., Ljubljana, 37-10, 113-118, 1978.03 | |
| 22 | CALDERALE P.M., GOLA M.M., GUGLIOTTA A. - | "Newly built facilities for ballistocardiography at the polytechnic of Turin", 11th Europ. Congr. Ballist., Ljubljana, 37-9, 109-111, 1978.03 | |

- 23 BARBERI G., GOLA M., GUGLIOTTA A., CALDERALE P.M. - "Analytical considerations on the mechanical stem femur coupling", Congr. Europ. Soc. Biomech., Bruxelles, 216-222, 1978.05, Acta Orthopaedica Belgica, 46,6, 728-734, 1980
- 24 GOLA M.M. - "[A calibration procedure of a new force plate](#)", Congr. Europ. Soc. Biomech., Bruxelles, 1978.05; Acta Orthop. Belgica 1980 18-29 [link](#)
- 25 GENTA G., GOLA M.M. - "Volani in legno lamellare: caratterizzazione del materiale, calcolo delle tensioni e prove di centrifugazione", VI Conv. Naz. AIAS, Brescia, 275-286, 1978.06
- 26 BARBERI G., CALDERALE P.M., GOLA M.M., GUGLIOTTA A. - "Flexural coupling of hip prosthesis stem and femur: a simple method of theoretical analysis", Engineering in Medicine, 3, 172-178, 1978.07
- 27 GOLA M.M., GUGLIOTTA A., NICOLOTTI G.C. - "Proposta costruttiva di macchina KKM-ka 3/2", ATA, 31-7/8, 326-331, 1978.07-08
- 28 GOLA M.M., GUGLIOTTA A. - "Calcolo non assialsimmetrico dei recipienti in pressione", ICP, VI n. 12, 49-54, ERIS, Milano, 1978.12
- 29a GOLA M.M., GUGLIOTTA A. - "Analytical estimate of stress in bones and prosthesis stems". Journal of Strain Analysis, 14-1, 29-33, 1979.01
- 29b "Analytical estimate of bone-prosthesis coupling", VI International Congr. Biomech., Copenhagen, 1977.07
- 29c "Calcolo delle caratteristiche di accoppiamento stelo-manicotto", V Conv. Naz. AIAS, Bari, I/12.1-12.12, 1977.09-10
- 29d "An approximate analytical method for the design of arthroprosthesis stems", Ist Mediterranean Conf. Medical Biological Engineering, Sorrento, II/1.77-1.79, 1977.09
- 30 CALDERALE P.M., GOLA M.M., GUGLIOTTA A. - "New theoretical and experimental developments in the mechanical design of implant stems", Pauwels Symposium, Freie Univ., Berlin, 199-208, 1979.01
- 31 GENTA G., GOLA M.M. - "Whirl and critical speeds of flywheel-container systems aboard vehicles", Meccanica, 14-1, 1979.03.
- 32 GENTA G., GOLA M.M. - "Dynamic behaviour of flywheel heat engine hybrid vehicles", Science Motor Vehic., Bled, Jugoslavia, 376-387, 1979.06
- 33a CALDERALE P.M., GOLA M.M., GUGLIOTTA A. - "Analisi teorica e sperimentale dello stato di tensione in steli protesici", VIII Conv. Naz. AIAS, Cagliari, 2.61-2.72, 1979.09
- 33b "Mechanical stress distribution in stems of implants", Biomechanics VII, 3A, Warszawa, 373-379, 1979.09
- 34 GOLA M.M. - "Mechanical design, constructional details and calibration of a new force plate", Journal of Biomechanics, 13-2, 113-128, 1980.01
- 35a GENTA G., GOLA M.M. - "Dynamic problems in the mechanical design of flywheel-heat engine hybrid vehicle", XVIII Intern. Congr. FISITA, Hamburg, 1980.05, VDI Berichte, 370, 4.2.3., 99-104, 1980
- 35b "Dimensionamento di alberi e supporti per volani ad alta densità di energia: problemi dinamici", VII Conv. Naz. AIAS, Cagliari, 3.15-3.26, 1979.09
- 36a GOLA M.M., GUGLIOTTA A. - "La meccanica della frattura nel progetto di recipienti in pressione", ICP, VIII n. 3, 21-25, ERIS, Milano, 1980.03
- 36b "Dimensionare con la meccanica della frattura un recipiente in pressione", Progetto, II n. 9, 40-44, ERIS, Milano, 1980.09
- 37a CALDERALE P.M., GOLA M.M., GUGLIOTTA A. - "Experimental results for stem-femur coupling loaded in bending", AI II-LEA, Simpozion National de Tensometrie, Cluj-Napoca, Romania, 3-11, 1980.06
- 37b "Systematic approach to the experimental and theoretical study of hip prosthesis coupling", I World Biomat. Congr. Baden near Vienna, 1980.04; Advan. Biomat., 3, J.Wiley & Sons, chap. 17, 113-119;
- 37c "Analisi teorica e sperimentale dello stato di tensione in steli protesici /II/", VIII Conv. Naz. AIAS, Firenze, 556-565, 1980.09
- 37d "Analisi teorica e sperimentale dello stato di tensione in steli protesici", Tecnica Ospedaliera, 11, 5, 70-76, 1981.05
- 38a GENTA G., GOLA M.M., GUGLIOTTA A. - "Remarks on the stress state in rotating orthotropic disks", Flyw, Tech. Symp., Scottsdale, Arizona, 1980.10;

- 38b "Axisymmetrical stress state in orthotropic rotating disks", V Cong. Naz. AIMETA, Palermo, III/209-218, 1980.10
- 38c "Axisymmetrical computation of the stress distribution in orthotropic rotating discs", Int. Journ. of Mech. Science, 24,1, 21-26, 1982.01
- 38 d 1979 – BELINGARDI G., GENTA G., GOLA M., – “A study of the stress distribution in rotating, orthotropic discs, Composites 10(2):77-80
- 39a BERTINO M., FURXHI G., GOLA M.M. - "Microcomputer control for a 5 axis manipulator with cartesian path control", Int. conf. Cybernetics and Society, IEEE, Cambridge, Mass., 1980.10
- 39b "Sistemi a micro calcolatore per un manipolatore a 5 assi con controllo rettilineo dei movimenti /I/". Tecniche dell'Automazione, ETAS-KOMPASS, 5, 21-24, 1981.05
- 40 GOLA M.M., GUGLIOTTA A. - "Rappresentazione di ordine qualsiasi per funzioni di una sola variabile nella progettazione meccanica", Il Progettista Industriale, Milano, 1981.02
- 41 FACCIO A., GOLA M.M., GUGLIOTTA A. - "Impostazione e verifica di massima di macchine KKM-ka 3/2", ATA, 34-2, 72-79, 1981.02
- 42 GOLA M.M. - "Design methodology of force-plate trasducer: a creative approach", Proc. Inter. Conf. Teach.Eng. Des., ICED, Roma 1981.03.
- 43 a GENTA G., GOLA M.M. - "The stress distribution in rotating orthotropic disks", Journal Applied Mechanics, 48, 3, 559-562, 1981 <https://doi.org/10.1115/1.3157674> [link](#)
- 43 b "Stato di tensione in dischi ortotropi rotanti", VIII Conv. Naz. AIAS, Firenze, 451.460, 1980.09
- 44 a GOLA M.M., GUGLIOTTA A. - "Developments in trasducer stems for mechanical coupling measurements in endoprostheses", Engineering in Medicine, 11, 4, 183-186, 1982
- 44 b "A critical appraisal of theoretical and experimental analyses of the coupling of endoprosthesis and femur", Ist China - Japan - USA Conf. on Biomechanics, Wuhan (Rep. Pop. China) 1983.05.
- 44 c "Theoretical and experimental analyses of the coupling of endoprosthesis and femur", in Biomech. Normal Path. Human Artic. Joints, NATO ASI, N. Berme et al. ed., 364-365, 1983
- 45 GOLA M.M., GUGLIOTTA A. - "Analisi strutturale di compensatori di dilatazione", ICP, Milano, n.5, 1982
- 46 GENTA G., GOLA M.M., GUGLIOTTA A. - "Design of anisotropic disc flywheels: Interaction roles of numerical and analytical methods of solution", Int. Conf. on Finite Element Methods, Shanghai, 1982.08
- 47 CALDERALE P.M., FASOLIO G., GOLA M.M., GUGLIOTTA A. - "Cinematica e analisi delle sollecitazioni della caviglia", Minerva Ortopedica, vol.33, n.3, Torino, 1982
- 48 a GENTA G., GOLA M.M., GUGLIOTTA A. - "Stress field in orthotropic accelerating discs", Journal of Applied Mechanics, 1982.09
- 48 b "Considerazioni sullo stato di tensione in dischi ortotropi in accelerazione", IX Conv.Naz. AIAS, Grado (Trieste), 195-203, 1981.09
- 49 COPPA P., GOLA M.M., MARINSEK G. - "Misura delle tensioni residue a raggi X: tensioni da rettifica", XI Conv. Naz. AIAS, Torino, 1983.09
- 50 a GOLA M.M., GUGLIOTTA A. - "Strumenti per l'analisi semplificata dell'andatura umana"; Dinamica del Movimento, n.spec. Rassegna di Bio-ingegneria, vol.8, n. 1-3, 1983
- 50 b "Gait analysis, a simplified approach", acc. Engineering in Medicine in Biomeccanica del Movimento, quali applicazioni cliniche?, Centro Ing.Biomedica, Universit... La Sapienza, Roma, 1983.02
- 51 GOLA M.M., GUGLIOTTA A., MACELLARI V. - "Multi joint motion telemetry for clinical gait analysis", III Mediterranean Conf. Med. Biol. Engng., Portoroz (yu), 1983.09
- 52 GOLA M.M., GUGLIOTTA A. - "Some experimental results concerning the mechanical coupling in endoprosthetics", Torino, 1984.10, ARCHIVE Engineering in Medicine 1971-1988 (vols 1-17) · February 1987 [link](#)
- 53 GOLA M.M. - "Dinamica di rotori ad alta velocità: un metodo di soluzione elegante", ICP, Milano, n.2, 1985
- 54 GOLA M.M., SAVIOTTI E., BASSINO L. - "Misura della pressione esercitata dalle calze terapeutiche a compressione", Tecnica Ospedaliera, Milano, n.3, 1985
- 55 COPPA P., GOLA M.M. - "Tensioni residue di rettifica e teorie estese dell'elasticità", XIII Conv. Naz. AIAS, Bergamo, 1985.09

- 56 GOLA M.M., GUGLIOTTA A. - "An improved experimental device for simplified gait analysis", Int. Conf. Experim. Mechanics, Beijing, 1985.10
- 57 COPPA P., GOLA M.M. - "Non destructive residual stress measurement under the surface by x-ray diffractometry", Int. Conf. Experim. Mechanics, Beijing, 1985.10
- 58 COPPA P., GOLA M.M. - "Tensioni residue superficiali e diffrattometria a raggi Roentgen: rassegna sul metodo". Il Progettista Industriale, Milano, I parte 5/86, II parte 6/86
- 59 COPPA P., GOLA M.M. - "Diffrattometria RX e prova sperimentale delle teorie tensione-coppia o micropolari", 8^o Congr. Naz. AIMETA, Torino, 1986
- 60 GOLA M.M., YOSIEF MEBRAHTU - "Verifica Teorica delle prestazioni dinamiche di robot polare in fibra di carbonio", XV Conv.Naz. AIAS, Pisa, 1987.09
- 61 BIGNARDI C., CALDERALE P.M., GOLA M.M., GUGLIOTTA A. - "Progettazione e valutazione di endoprotesi", Bioingegneria della Riabilitazione, ed. T.Leo G.Rizzolatti, P...tron, Bologna, ottobre 1987
- 62 BELFORTE G., GOLA M.M., IPPOLITO R. - "Il comportamento dei riduttori di velocità Harmonic Drive", Progettare, 1987.10
- 63 BELFORTE G., GOLA M.M., BELLOSTA F., - "Braccio per robot cartesiano in fibra di carbonio", IV Congr. SIRI, Milano, 1988.03
- 64 GOLA M.M., GUGLIOTTA A. - "An improved experimental device for simplified gait analysis", Ogólnopolska Komferencja Biomechanicki, Gdańsk 1987.06
- 65a GOLA M.M., GUGLIOTTA A., AMORT G., CALDERALE P.M. - "Strumenti per l'analisi semplificata dell'andatura umana", IX Congr. Naz. F.I.O.T.O., Torino 1988.04
- 65b "An improved experimental device for simplified gait analysis", KONGRESS '88 - Biomedizinische Technik und Informationsverarbeitung, Dresden, 1988.03
- 66 COPPA P., GOLA M.M. - "Misura diffrattometrica RX delle tensioni residue in provini rettificati", XVI Conv. Naz. AIAS, L'Aquila 1988.09
- 67 GOLA M.M., HANABUSA T. - "Tensioni tangenziali residue in acciai mono e bi- fasici", XVI Conv. Naz. AIAS, L'Aquila, 1988.09
- 68 GOLA M.M., COPPA P. [Possible Experimental X-Ray Diffractometry Evidence of Couple-Stresses](#). ASME. J. Appl. Mech. 1988;55(3):539-544. doi:10.1115/1.3125827.
- 69 GOLA M.M., "Biomeccanica e valutazione oggettiva della mobilità", Atti e Rassegna Tecnica, Soc. Ing. Arch. Torino, 1988.11/12
- 70 COPPA P., GOLA M.M., "Tensioni residue superficiali e diffrattometria a raggi X: applicazioni", Il Progettista Industriale, Tecniche Nuove, Milano n. 5, 6, 7, 1989
- 71a BELFORTE G., GOLA M.M., D'ALFIO N., "Design and testing of carbon fibre robots", 2nd Int. Conf. Robotics, Dubrovnik (Ju), 1989.06
- 71b "Progetto e realizzazione di robot in fibra di carbonio", Il Progettista Industriale, Tecniche Nuove, Milano 1/90
- 72a GOLA M.M., Yosief MEBRAHTU, SOMA` A., "Design optimization of an experimentally tuned robotic structure", Int. Conf. Appl. Mechs., Beijing 1989.08
- 72b "Corrispondenza fra previsione e sperimentazione nel comportamento modale di una struttura per robot", XVII Conv. Naz. AIAS, Ancona, 1989.09
- 73 GOLA M.M., Yosief MEBRAHTU, SOMA` A., - "Evoluzione di una architettura per robot polare in fibra di carbonio", XVII Conv. Naz. AIAS, Ancona, 1989.09
- 74 FURXHI G., GOLA M.M., Jamal M. HASSAN, - "Cinematismo di un caricatore doppio per rettifica", Progettare n. 110/111, 82-86, Etas Kompass, Milano, 1989
- 75 GOLA M.M. - "La manutenzione di sistemi e componenti meccanici: la situazione in paesi in via di sviluppo", Int. Congr. La Qualità per l'Europa, Torino, 1989.11
- 76 GARIBALDI L., GOLA M.M., Yosief MEBRAHTU, - "Nonlinear dynamics of a lightweight carbon fiber robot", Dip. Meccanica, Politecnico di Torino, 1990.05
- 77 GOLA M.M., GUGLIOTTA A, AMORT G. - "Sviluppo di uno strumento per misure elettrogoniometriche articolari", Dip. Meccanica, Politecnico di Torino, 1990.05
- 78 GOLA M.M., QUENDA R., - "La tenuta dei collegamenti flangiati - nuove tendenze e proposta per una macchina di prova unificata", ICP, Eris, Milano, 1990.07

- 79 GOLA M.M., SOMA` A., "Controllo delle oscillazioni residue in strutture di robot", XVIII Conv. Naz. AIAS, Amalfi 1990.09
- 80 DELPRETE C., GOLA M.M., - "Il comportamento meccanico dei fissatori esterni a fili per osteosintesi", XVIII Conv. Naz. AIAS, Amalfi, 1990.09
- 81a GOLA M.M., SOMA` A., "Mode superposition method in flexible robot trajectory simulation", Struceng & Femcad, I.I.T.T., Grenoble, 1990.10
- 81b "Vibration reduction in a four mode flexible robot: identification and simulation", II IASTED Int. Conf., Alexandria, May 5-7 1992, pp. 79-84
- 82 GOLA M.M., "Mechanics of the stem/femur coupling, methods and objectives", Corso Int. Chir. Prot. I, Minerva Medica, Torino, 1991.04
- 83 GOLA M.M., SOMA` A., "Identification of robot joint stiffness using least squares on modal shapes", FMAC, Firenze, 1991.09
- 84 GOLA M.M., SOMA` A., "Identificazione di rigidezze: convergenza sulle forme modali e sui dati della FRF", XX Conv. Naz. AIAS, Palermo, 1991.09
- 85 BRACCIALI A., CARFAGNI M., GOLA M.M., SOMA` A., "Identificazione modale di una struttura per robot in varie posizioni del campo di lavoro", XX Conv. Naz. AIAS, Palermo, 1991.09
- 86 GOLA M.M., SOMA` A., "Structural identification on modal shapes and on FRF data", Struceng & Femcad, I.I.T.T., Paris, 1991.10
- 87 BOTTO D., GOLA M., SOMA` A., "Design of two non conventional robot structures", Robotics in Alpe-Adria Region, Portoroz, 1992.06
- 88 GOLA M.M., SOMA` A., "Design of a carbon fiber robot: architectural choices and design balancing", 9th CISM-IFTOMM Symp. Theory Pract. Robot Manip., Udine, sept. 1992.09
- 89a GOLA M.M., SOMA` A., "Model updating through receptance sensitivity", 17th ISMA, Conf. Numerical Methods Struct. Dynamics, Leuven 1992.09
- 89b "Identificazione di parametri strutturali mediante derivata materiale" della recettanza", XXI Conv. Naz AIAS, Genova 1992.09
- 90a BOTTO D., GOGLIO L., GOLA M.M., SOMA` A., "On the maximum number of stiffness parameters that can be identified", 17th ISMA, Conf. Numerical Methods Struct. Dynamics, Leuven, 1992.09
- 91 BOTTO D., GOGLIO L., GOLA M.M., SOMA` A., "On the maximum number of stiffness parameters identifiable with modal data", IMAC '93, Kissimmee, 1993.02
- 92a Goglio L., GOLA M.M. "The prediction of the transverse shrinkage in butt welded joints: a review", II Polish-Italian Seminar, Torino, 1993.04; /2 "Influence of process and groove shape on the transverse shrinkage in butt welded joints: an experimental approach", II Polish-Italian Seminar, Torino, 1993.04
- 92b GOGLIO L., GOLA M.M. , "Shrinkage in butt welded joints: measurement and prediction", Welding Int., 1993.7
- 92c GOGLIO L., GOLA M.M. "Il ritiro nei giunti saldati di testa: misura e previsione", Rivista Italiana della saldatura, pp. 3-14, 1993
- 93 PLUMMER C.J.G., WU YUJUN, GOLA M.M., KAUSCH H.H, "Impact Test of Filled and Unfilled Thermotropic Liquid Crystalline Polymer Injection Mouldings", Polymer Bulletin 30, 587-594, 1993
- 94 GOLA M.M., BOTTO D., GOGLIO L. , SOMA` A.: "Identificazione strutturale dinamica: applicazione a robot veloci", Scritti e Testimonianze in Ricordo di Attilio Lausetti, Dip. Ing. Aer. Spaziale, Politecnico di Torino, 1993
- 95 BOTTO D., GOLA M.M., "Design and construction of a modular robot with eulerian joints", Robotics in Alpe-Adria Region, Krems 1993.07
- 96 GOLA M.M., SOMA` A., "Vibration control through preshaping: application to a one-link flexible robot", 3rd International Symposium on Measurements and Control in Robotics, Torino (ISMCR '93), Torino, 1993.09 [link](#)
- 97 BOTTO, L. GOGLIO, M.M. GOLA, "Model updating of a robot: an exploration of the Lagrangian approach", ISMCR '93, Torino, 1993.09
- 98 GOLA M.M., SOMA` A., "Condizioni necessarie e sufficienti per l'identificazione modale di parametri strutturali", XXII Conv. AIAS, Forlì, 1993.10
- 99 GOLA M.M., GUGLIOTTA A., SANTUCCI G., SOMA` A., "Identificazione di un braccio di robot a struttura mista alluminio-composito", XXII Conv. AIAS, Forlì, 1993.10

- 100 GOLA M.M., "Robot in fibra di carbonio", Atti IV Convegno Progetto Finalizzato Robotica del CNR, Milano Città Studi, 1993.12
- 101 DELPRETE, C. , GOLA, M. M. (1993) Mechanical performance of external fixators with wires for the treatment of bone fractures--Part I: Load-displacement behavior. J Biomech Eng. 1993 Feb;115(1):29-36 [link](#)
- 102 DELPRETE, C. , GOLA, M. M. (1993) Mechanical performance of external fixators with wires for the treatment of bone fractures-Part II: wire tension and slippage. J Biomech Eng 115 , pp. 37-42 [link](#)
- 103 BOTTO D., GOLA M.M., SOMA` A., "Planning of modal experiments for structural identification with the sensitivity approach", IMAC '94, Honolulu, 1994.02 [link](#)
- 104 BERRUTI T., DELSANTO P.P., GOLA M.M., SCALERANDI M., "A microscopic model for acoustoelasticity", subm. EUROMAT '94, 15th Conf. Mat. Testing Metallurgy, Balatonszeplak, 1994.05
- 105 BOTTO D., GOLA M.M., "Solution of the inverse kinematic problem of a robot manipulator with eulerian joints", subm. Symp. Robot Control '94, Capri, 1994.09 I- FAC Proceedings Volumes (IFAC Papers-OnLine) 27(14):375-379 DOI: 10.1016/S1474-6670(17)47340-X [link](#)
- 106 BOTTO D., GOGLIO L., GOLA M.M., "Identificazione strutturale: errore lagrangiano e soluzione fattoriale", XXIII AIAS, Rende, 1994.09
- 107 PLUMMER J.G., KAUSCH H.H., WU Y., GOLA M.M., "The long term mechanical behaviour of filled and unfilled injection moulded thermotropic liquid crystalline polymers", July 1994 Polymers and Polymer Composites, DOI: 10.1177/147823919400200505105 [link](#)
- 109 BOTTO D, GOLA M.M., SOMA' A., "Model updating with modal sensitivity: selection of modes and degrees of freedom", 18th ISMA, Conf. Numerical Methods Struct. Dynamics, Leuven 1994.09
- 109 GOLA M.M., GUGLIOTTA A., SANTUCCI G., SOMA' A., "FEM model updating and synthesis of mixed aluminium-composite robot arm", 18th ISMA, Conf. Numerical Methods Struct. Dynamics, Leuven 1994.09
- 110 GOLA M.M., SOMA` A., "Vibration Control of a one-link flexible arm: experimental results", Ro.Man.Sy. '94, Gdansk, Poland, 1994.09; anche 10th CISM-IFTOMM Symp. Theory Pract. Robot Manip., pp. 307-314, ISBN: 9783211826973, 1994 [link](#)
- 111 GOLA M.M., SOMA' A., "Design and construction of an original high performance industrial robot", 6th Int. Machine Design and Production Conference, Metu - Ankara, 1994.09
- 112 BERRUTI T, GOLA M.M., "A portable system for ultrasonic inspections", 6th Int. Machine Design and Production Conference, Metu - Ankara, 1994.09
- 113 GOLA M.M., SOMA` A., BERGESIO D: "Localizzazione del danno strutturale mediante prove dinamiche", 1° Conv. Naz. Identificazione Strutturale, ISMES, Bergamo, 1995.05
- 114a GOLA M.M., SOMA` A.: "Identificazione strutturale mediante sensitività modale: scelta dei modi e dei punti di misura", 1° Conv. Naz. Identificazione Strutturale, ISMES, Bergamo, 1995.05
- 114b GOLA M.M., SOMA` A.: "Identificazione strutturale mediante sensitività modale: scelta dei modi e dei punti di misura", XXIV Conv. Naz. AIAS, Parma 1995.09
- 115 GOLA M.M., SOMA' A., "Selective Sensitivity for Model Updating with Modal Data", Biennial ASME Conference, Boston, 1995.09
- 116 DI GIUNTA R., GOGLIO L., GOLA M.M, "How calcareous layers affect ultrasonic thickness gaging", 7th Int. Symp. on Nondestructive Charac. Materials, 1995.06
- 117a BERRUTI T, GOLA M.M., "Acoustoelastic Determination of Stresses in Steel using Rayleigh Ultrasonic Waves", VII Int. Synp. Nondestructive Characterization of Materials , Praha, 1995.06
- 117b BERRUTI, T., GOLA, M. M. (1996). Acoustoelastic Determination of Stresses in Steel Using Rayleigh Ultrasonic Waves. Materials Science Forum, 210–213, 171–178
<https://doi.org/10.4028/www.scientific.net/msf.210-213.171> [link](#)
- 118 BAIRATI G., FERRAROTTI G., GOLA M.M, GUGLIOTTA A., SOMA' A.: "Controllo delle vibrazioni di un robot leggero ad alte prestazioni dinamiche", XXIV Conv. Naz. AIAS, Parma 1995.09
- 118b BAIRATI G., FERRAROTTI G., GOLA M.M, GUGLIOTTA A., SOMA' A.: "Vibration control of lightweight flexible robots: numerical simulation", European ADAMS User Conference, 1995.11
- 119 GOLA M.M., SOMA` A., BERGESIO D:"Localizzazione del danno strutturale mediante prove dinamiche", XXIV Conv. Naz. AIAS, Parma 1995.09

- 120 CHIEPPA F., BAISSERO H., GOLA M.M: "Progettazione meccanica e ottimizzazione strutturale di un manipolatore per applicazioni spaziali e subacquee", XXIV Conv. Naz. AIAS, Parma 1995.09
- 121 GOLA. M.M., TOROPOV A.: "A Technique for the assessment of the healing rate in the bone fractures", XXIV Conv. Naz. AIAS, Parma 1995.09
- 122a BERRUTI T., GOLA M.M., "Dispositivi di misura dell'effetto acustoelastico in acciaio con onde di Rayleigh", XXIV Conv. Naz. AIAS, Parma 1995.09
- 122 b BERRUTI T., GOLA M.M., "Misura dell'effetto acustoelastico in acciaio con onde di Rayleigh", Proc. 8° Congresso Nazionale dell'Associazione Italiana Prove non distruttive (AIPnD), , 17-19 Ottobre 1995, Torino.
- 123a GOLA M.M., MAZOUZI S., "Sistema meccanico per la localizzazione e il riconoscimento dei difetti", Conf. Naz. Prove Non Distruttive Monitoraggio Diagnostica, 8º Congr. Naz. AIPnD, Torino, 1995.10
- 123b GOLA M. M., MAZOUZI Slimane: "Mechanical system and related procedure for US defect recognition", XXV AIAS Nat. Conf., Int. Conf. on Mat. Eng., Gallipoli, 1996.09
- 124a GOLA M.M., SOMA' A., D. BOTTO, "On theoretical limits of dynamic model updating trough eigenvector sensitivity", "Journal of Sound and Vibration", rif. P/45/95
- 124b GOLA M.M., SOMA' A., D. BOTTO, "On theoretical limits of dynamic model updating using a sensitivity-based approach" Journal of Sound and Vibration (2001), 244(4), pp. 583, 595 [link](#)
- 125 GOLA M.M., TOROPOV A.: "Stiffness measurements of the fractures treated with unilateral external fixators", XXV AIAS Nat. Conf., Int. Conf. on Mat. Eng., Gallipoli, 1996.09
- 126 BERRUTI T., GOLA M.M.: "Acoustoelastic effect in different metallic materials", XXV AIAS Nat. Conf., nt. Conf. on Mat. Eng., Gallipoli, 1996.09
- 127 BERRUTI T., GOLA M.M., PILONE S., 'Studio di tensioni residue in un cuscinetto a sfere per mozzo ruota', Proc. XXVI Convegno Nazionale AIAS, Catania 1997, pp. 319-326.
- 128 BERRUTI T., GOLA M.M., BRIGGS G.A.D.: "Acoustoelastic measurements on aluminium alloy by means of a contact and a non contact (LFB acoustic microscopy) technique". Journal of Acoustic Society of America, vol 103 (3), 1370-1376, march 1998 [link](#)
- 129 BERRUTI T., FILIPPI S., GOGLIO L., GOLA M.M., 'Comportamento dinamico di palette di turbina soggetto a forzamento e attrito', Proc. XXVII Convegno Nazionale AIAS, Perugia 1998, pp. 269-278.
- 130 BERRUTI, T., FILIPPI, S., GOGLIO, L., GOLA, M. M.: "Forced Response of Frictionally Damped Stator Segments", ASME Gas Turbine & Aeroengine Congress and Exhibition Indianapolis, 99-GT-412, June 1999
- 131 BERRUTI T., COPPA P., GOLA M.M., "Diffrattometria raggi X per la determinazione dello stato tensionale residuo", Quaderni tecnologici AMMA, Torino 1999, pag. 32-62
- 132 BAISSERO H., GOLA M.M., "Gli ultrasuoni per i controlli non distruttivi", Quaderni tecnologici AMMA, Torino 1999, pag. 84-122139
- 133 BERRUTI T., BRUNO E., GOLA M.M., MOURGLIA M., "Measurement of residual stresses in the processing of roller bearings", VI Int. Conf. Residual Stresses, pp. 913-920, Oxford, July 2000
- 134 BOTTO D.; GOLA M.M., "Ricostruzione approssimata dei transitori termici nei dischi di turbine aeronautiche", Proc. XXIX Convegno Nazionale AIAS, Lucca, sept. 2000, pp. 191-200
- 135 BERRUTI T., GOLA M.M., 'La rilevazione diffrattometrica a raggi X di tensioni residue su provini curvi' Proc. XXIX Convegno Nazionale AIAS, Lucca 2000, pp. 1251-1262.
- 136 BERRUTI T., FILIPPI S., GOGLIO L., GOLA M.M., 'Simulazione su banco di prova del comportamento dinamico di palette di turbina smorzate per attrito' Proc. XXIX Convegno Nazionale AIAS, Lucca 2000, pp. 201-211.
- 137 BERRUTI, T., FILIPPI, S., GOGLIO, L., GOLA, M. M. : "A Test Rig for Frictionally Damped Bladed Segments", ASME Gas Turbine & Aeroengine Congress and Exhibition Munich, 2000-GT-538, May 2000, and published in J. of Engineering for Gas Turbine and Power January 2002 vol. 124.
- 138 BERRUTI T., FILIPPI S., GOGLIO L., GOLA M.M., SALVANO S., "A test rig for frictionally damped bladed segments", ASME J. of Engineering for Gas Turbines and Power, April 2002, Vol. 124, p. 388-394
- 139 BERRUTI, T., FILIPPI, S., GOLA, M. M., SALVANO, S.: "Friction Damping of Interlocked Vane Segments: Experimental Results", ASME Gas Turbine & Aeroengine Congress and Exhibition New Orleans LA, 2001-GT-432, June 2001; ASME J. of Engineering for Gas Turbines and Power, Oct. 2002, Vol. 124, p. 1018-1024,

- 140 BERRUTI T., GOLA M.M., " La rilevazione diffrattometrica a raggi X di tensioni residue in cuscinetti: procedura di misura", Proc. XXX Convegno Nazionale AIAS, Alghero, sept. 2001 (on CD-rom)
- 141 BERRUTI T., FILIPPI S., GOLA M.M., "Friction damping of interlocked vane segments: validation of friction model and dynamic response", Proc. XXX Convegno Nazionale AIAS, Alghero, sept. 2001 (on CD-rom) [link](#)
- 141 ZUCCA S., BOTTO D., GOLA M.M., "Calcolo approssimato dello stato di tensione in dischi di turbine aeronautiche", Proc. XXX Convegno Nazionale AIAS, Alghero, sept. 2001 (on CD-rom)
- 143 BOTTO D., GOLA M.M., ZUCCA S., "Riduzione modale applicata a modelli termici non lineari di dischi di turbina", Proc. XXX Convegno Nazionale AIAS, Alghero, sept. 2001 (on CD-rom)
- 144 SALVETTI M., GOLA M.M., BERRUTI T., "Structural Design of the ICRH Antenna Faraday Shield for the Ignitor Experiment", poster, 43rd Annual Meeting APS, Div. Plasma Physics, Long Beach Cal., Oct. 29 / Nov. 2, 2001
- 145 VECCHI G., MAGGIORA R., GOLA M.M., BERRUTI T., "The Ignitor ICRF Antenna System", 43rd Annual Meeting APS, Div. Plasma Physics, Long Beach Cal., Oct. 29 / Nov. 2, 2001
- 146 BOTTO, D., ZUCCA, S., GOLA M. M., TRONCARELLI, E., PASQUERO, G., "Component modes synthesis applied to a thermal transient analysis of a turbine disc", in Worldwide Aerospace Conference and Technology Showcase, Toulouse (FR), 8-10 Aprile 2002 [link](#)
- 147 BERRUTI, T., FILIPPI, S., GOLA, M. M., SALVANO, S.: "Friction Damping of Interlocked Vane Segments: Numerical Results", ASME Gas Turbine & Aeroeng. Congr. and Exhib. Amsterdam, June 2002
- 148 BOTTO, D., ZUCCA, S., GOLA, M.M., "A method for on-line temperature monitoring calculation of aircraft engine turbine discs", GT-2002-30006, January 2002, , Conference: Proceedings of the ASME Turbo Expo 2002, Amsterdam, The Netherlands / DOI: 10.1115/GT2002-30006 [link](#)
- 149a VECCHI G., GOLA M.M., MAGGIORA R., BERRUTI T., KYRYTSYVA V., SALVETTI M.F. : " Ignitor ICRH antenna and system design", (Poster) 2002 Fusion Summer Study, Snowmass, July 8-19 2002
- 149b VECCHI G., GOLA M.M., MAGGIORA R., BERRUTI T., KYRYTSYVA V., LANCELLOTTI V. (Politecnico di Torino), SALVETTI M.F. (MIT): "Design of the Ignitor ICRF antenna system", (Poster) 44th Annual Meeting APS (American Physical Society), Div. Plasma Physics, Orlando Fl., Nov. 2002
- 150 BERRUTI T., GOLA M.M. (Politecnico di Torino), SALVETTI M.F. (MIT), "Structural design of the ICRH antenna's straps of the Ignitor experiment", 44th Annual Meeting APS (American Physical Society), Div. Plasma Physics, Orlando Fl., Nov. 2002
- 151 GOLA M.M., BERRUTI T. (Politecnico di Torino), Salvetti M.F. (MIT), Bombarda F., (ENEA-Ignitor, Italy), "Advances in the Structural Design of the ICRH Antenna Faraday Shield for the Ignitor Experiment", 44th Annual Meeting APS (American Physical Society), Div. Plasma Physics, Orlando Fl., Nov. 2002
- 152 BOTTO, D., ZUCCA, S., GOLA, M. M., "A methodology for on-line calculation of temperature and thermal stress under non-linear boundary conditions", Int. J. Pres. Ves. & Piping, Vol. 80/1, Jan. 2003, - pp. 21-29 [link](#)
- 153 BERRUTI T., GOLA M.M., "X-ray residual stress measurement on mechanical components with high curvature", Experimental Mechanics, march 2003, pp. 105, 114 [link](#)
- 154 ZUCCA S., BOTTO D., GOLA M.M., "On-line calculation of thermal stresses by time integration", 5th International Congress on Thermal Stresses and Related Topics, 8-11 June 2003, Blacksburg, VA, 2003
- 155 ZUCCA S., BOTTO D., GOLA M.M., MANZONI V., SALVANOS S., "Metodi di progetto per la ricostruzione approssimata delle temperature nei dischi di turbina aeronautica", Proc. XXXII Convegno Nazionale AIAS, Salerno, Sept. 3-6, 2003
- 156 BERRUTI T., FIRRONE C.M., GOLA M.M., "Modelling underplatform dampers in turbine blade vibrations", Proc. XXXII Convegno Nazionale AIAS, Salerno, Sept. 3-6, 2003
- 157 FILIPPI S., GOLA M., AKAY A., "A New Design to Measure Contact Hysteresis", Proceedings of ESDA2002: 6th Biennial Conference on Engineering Systems Design and Analysis, Istanbul, Turkey, July 8-11, 2002 [link](#)
- 158 FILIPPI S., GOLA M., AKAY A. "Measurement of tangential contact hysteresis during microslip", Proc. XXXII Convegno Nazionale AIAS, Salerno, Sept. 3-6, 2003
- 159 FILIPPI, S., AKAY, A., GOLA, M. M., Measurement of Tangential Contact Hysteresis During Microslip, ASME Journal of Tribology, v. 126-3 , 2004, pp. 482-489, <https://doi.org/10.1115/1.1692030> [link](#)

- 160 ZUCCA S., BOTTO D., GOLA M.M., Faster on-line calculation of thermal stress by time integration, Int. J. Press. Vessels and Piping, Vol. 81/5 pp. 381-387, 2004. [link](#)
- 161 MARTENA M., BOTTO D., FINO P. SABBADINI S., GOLA M.M., BADINI C., Modelling of TBC system failure: stress distribution as a function of TGO thickness and thermal expansion mismatch, Failure Engineering Analysis, 13 (2006) 409-426, Elsevier [link](#)
- 162 BERRUTI T., GOLA M.M., SALVETTI M.F., Thermo-mechanical analysis of the ICRH antenna for the ignitor experiment, Part I: Faraday shield, J. Fusion Engineering and Design, 73 (2005) 155-169
- 163 SALVETTI M.F., BERRUTI T., GOLA M.M., Thermo-mechanical analysis of the ICRH Antenna for the Ignitor Experiment Part II: Antenna Straps, Fusion Engineering and Design, 73 (2005), 171-180
- 164 J. M. BORRAJO, D. BOTTO, M M..GOLA, S. ZUCCA, G. P. DE POLI, S. SALVANO, Sviluppo di un codice di calcolo per la progettazione di smorzatori sotto-pala per pale di turbina, XXXIV Convegno Nazionale AIAS, 14–17 Settembre 2005, Politecnico di Milano [link](#)
- 165a FILIPPI S. , RODRIGUES E.B., GOLA M.M., A technique for the experimental contact characterization at high temperature, XXXIV Convegno Nazionale AIAS, 14–17 Settembre 2005, Politecnico di Milano
- 165b FILIPPI S. , RODRIGUES E.B., GOLA M.M., Experimental characterization of contact hysteresis at high temperatures, ASME Turbo Expo 2006: Power for Land, Sea and Air, May 8-11, 2006, Barcelona, Spain [link](#)
- 166 BERRUTI T., GOLA M.M., ZUCCA S., DE POLI G.P., Underplatform damper performance with turbine blades, NATO AVT-121 Symposium October 2005 [link](#)
- 167 BOTTO D., ZUCCA S., GOLA M. M., Methods for reducing a thermal finite element model including the advection network contribution, Proceedings of GT2006: ASME Turbo Expo 2006: Power for Land, Sea and Air, May 8-11, 2006, Barcelona, Spain [link](#)
- 168a ALLARA M., FILIPPI S., GOLA M.M., Misura sperimentale dello smorzamento generato all'attacco radice pala-disco in turbomotore, XXXIV Convegno Nazionale AIAS, 14–17 Settembre 2005, Politecnico di Milano
- 168b ALLARA M., FILIPPI S., GOLA M. M., An experimental method for the measurement of blade-root damping, Proceedings of GT2006: 51st ASME Turbo Expo 2006: Power for Land, Sea and Air, May 8-11, 2006, Barcelona, Spain [link](#)
- 169 ZUCCA S., FILIPPI S., DROETTI F., GOLA M.M, Forced response of interlocked vane segments: numerical predictions and experimental results, Proceedings of ESDA2006 8th Biennial ASME Conference on Engineering Systems Design and Analysis, July 4-7, 2006, Torino, Italy [link](#)
- 170 BOTTO D., CHIONETTI E., GOLA M. M., Analysis of the stress in thermal barrier coatings of turbine blades, Proceedings of GT 2006 ASME Turbo Expo 2006: Power for Land, Sea and Air, May 8-11 2006, Barcelona, Spain [link](#)
- 171 BOTTO D., GOLA M. M., Parametric analysis of the stress distribution in thermal barrier coatings, Proceedings of ESDA2006 8th Biennial ASME Conference on Engineering Systems Design and Analysis, July 4-7, 2006, Torino, Italy
- 172 BOTTO D., FIRRONE C., GOLA M.M., Modeling a friction damper: analysis of the experimental data and comparison with numerical results, Proceedings of ESDA2006 8th Biennial ASME Conference on Engineering Systems Design and Analysis, July 4-7, 2006, Torino, Italy
- 173 NORGIA M., GIULIANI G., FILIPPI S., GOLA M., DONATI S., Self-Mixing Laser Diode Vibrometer for the Measurement of Differential Displacements, ODIMAP V - 5th Topical Meeting on Optoelectronic Distance/Displacement Measurements and Applications, University Carlos III of Madrid, Spain, October 2-4, 2006, ISBN 84-690-0938-9
- 174 BORRAJO J.M; ZUCCA S.; GOLA M.M, Analytical Formulation of the Jacobian Matrix for Non-linear Calculation of the Forced Response of Turbine Blade Assemblies with Wedge Friction Dampers, INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, pp. 1118-1127, 2006, Vol. 41, ISSN: 0020-7462 [link](#)
- 175 BERRUTI T.M. FIRRONE C.M, PIZZOLANTE M., GOLA M.M. - Fatigue damage prevention on turbine blades: study of underplatform damper shape. Key Engineering Materials. vol. 347, pp. 159-164 <https://doi.org/10.4028/www.scientific.net/kem.347.159> (2007) [link](#)
- 176 ALLARA M. ZUCCA S. GOLA M.M, Effect of crowning of dovetail joints on turbine blade root damping, KEY ENGINEERING MATERIALS, pp. 317-322, 2007, Vol. 347, ISSN: 1013-9826 [link](#)
- 177 BOTTO D. ZUCCA S. GOLA M.M, Reduced-Order Models for the Calculation of Thermal Transients of Heat Conduction/Convection FE Models, JOURNAL OF THERMAL STRESSES, pp. 819-839, Taylor & Francis, 2007, Vol. 30, pp.819-839, ISSN: 0149-5739 [link](#)

- 178 BOTTO D, LAVELLA M, DE POLI G.P, GOLA M.M. (2008). Analisi comparativa dell'usura in provini con e senza ricoprimento superficiale. In: WORKSHOP AIT 2008. Polo Tecnologico di Navacchio, Pisa, Italy, 17-18 April 2008
- 179 ZUCCA S., BOTTO D., GOLA M.M., Range of Variability in the Dynamics of Semi-Cylindrical Friction Dampers for Turbine Blades, ASME Turbo Expo 2008: Power for Land, Sea and Air, Berlin, Germany, June 9-13, 2008 [link](#)
- 180 BOTTO D, ZUCCA S, PAVONE S, GOLA M.M., Parametric study of the kinematic behaviour of the underplatform damper and correlation with experimental data, International Conference on Noise and Vibration Engineering ISMA 2008, Leuven (Belgium) September 15-17, 2008 [link](#)
- 181 FIRRONE C.M., ALLARA M., GOLA M.M., A contact model for nonlinear forced response prediction of turbine blades: calculation techniques and experimental comparison, ASME Turbo Expo 2008: Power for Land, Sea and Air, Berlin, Germany, June 9-13 2008 [link](#)
- 182 ZUCCA S., BOTTO D., GOLA M.M., The calculation of thermal transients in mechanical components with reduced order models based on component mode synthesis, October 31 - November 6, 2008. Sheraton Boston Hotel. Boston, MA USA IMECE 2008 [link](#)
- 183 FIRRONE C, ZUCCA S, GOLA M.M. (2009). Effect of static/dynamic coupling on the forced response of turbine bladed disks with underplatform dampers. In: Vol. 6. Orlando, Florida, USA, June 8-12, 2009, vol. 6, p. 429-440, doi: 10.1115/GT2009-59905
- 184a LAVELLA M., BOTTO D., GOLA M.M., Fretting wear of cmsx4 at blade tip interface with and without coating, ASME/STLE International Joint Tribology Conference, Oct. 19-21 2009, Memphis, USA
- 184b LAVELLA M., BOTTO D., GOLA M.M., Fretting damage of contact interfaces of CMSX 4 with and without T800 coating, Key Engineering Materials Vols. 417-418 (2010) pp 553-556, online at <http://www.scientific.net>, © (2010) Trans Tech Publications, Switzerland
- 185 BERRUTI T.M, LAVELLA M, GOLA M.M. (2009). Residual stresses on inconel 718 turbine shaft samples after turning. MACHINING SCIENCE AND TECHNOLOGY, vol. 13/4; p. 543-560, ISSN (Print) 1091-0344, ISSN (On Line) 1532-2483 [link](#)
- 186 FIRRONE C, ZUCCA S, GOLA M.M. (2010). Coupled static/dynamic modeling of wedge dampers for turbine blades. In: GT2010. Glasgow, UK, 14-18 June 2010
- 187 BERRUTI T, FIRRONE C, GOLA M.M. (2010). A test rig for non-contact travelling wave excitation of a bladed disk with underplatform dampers. In: GT2010. Glasgow, UK, 14-18 June 2010
- 187b BERRUTI T, FIRRONE C, GOLA M.M. (2010). A test rig for non-contact travelling wave excitation of a bladed disk with underplatform dampers.In: ASME Journal of engineering for Gas Turbines and Power, march 2011, Vol. 133
- 188 BOTTO D, CAMPAGNA A, LAVELLA M, GOLA M.M. (2010). Experimental and numerical investigation of fretting wear at high temperature for aeronautical alloys. In: ASME Turbo Expo 2010. Glasgow, UK, June 14-18, 2010 [link](#)
- 188b BOTTO D., LAVELLA M., GOLA M. M., (2010), Analisi numerica e sperimentale dell'usura per sfregamento di superleghe per applicazioni aerospaziali, AIAS 2010 Atti del XXXIX Convegno Nazionale, Nuova Editoriale Bios s.n.c. (ITA), XXXIX Convegno nazionale AIAS (Maratea, Italia) 7-10 Settembre 2010, pp.10 (pp.1546-1555) ISBN:9788860930743
- 189 C.M. FIRRONE, ZUCCA S., M.M. GOLA, Static/dynamic coupling of gears with a ring damper for the nonlinear forced response calculation, In: Proceedings of the IV European Conference on Computational Mechanics, IV European Conference on Computational Mechanics, Paris, France May 16-21, 2010, 2010
- 190 S. ZUCCA, FIRRONE C.M., M.M.GOLA, Coupled static/dynamic modeling of wedge dampers for turbine blades, In: GT2010, ASME Turbo Expo 2010: Power for Land, Sea and Air, GT2010, ASME Turbo Expo 2010: Power for Land, Sea and Air, Glasgow, UK 14-18 June 2010, 2010
- 191 FIRRONE C, ZUCCA S, GOLA M.M. (2010). A Method for the Calculation of Friction Damping in Blade Root Joints. In: ESDA2010 Proceedings of ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, Istanbul (Turkey) July 12-14, 2010
- 192 GOLA M. M., BRAGA DOS SANTOS M., LIU T. , (2010). Design of a new test rig to evaluate underplatform damper performance. ESDA2010. Istanbul, Turkey, ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, 5, pp. 85-94 [link](#)

- 193 VARGIU P, FIRRONE C, ZUCCA S, GOLA M.M. (2010). A reduced order model based on sector mistuning for the dynamic analysis of mistuned bladed disks. In: ISMA. Leuven, Belgium, 20-22 September 2010
- 193b VARGIU P., FIRRONE C.M., ZUCCA S., GOLA M.M. (2011). A reduced order model based on sector mistuning for the dynamic analysis of mistuned bladed disks, INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, Elsevier, Vol.8 pp.8 (pp.639-646) ISSN:0020-7403 DOI:10.1016/j.ijmecsci.2011.05.010
- 194 BERRUTI T., FIRRONE C.M., GOLA M.M., (2011). A test rig for non-contact travelling wave excitation of a bladed disk with underplatform dampers, JOUR. ENGINEERING FOR GAS TURBINES AND POWER, Vol.133 pp.8 (pp.032502-1-032502-8) ISSN:0742-4795 DOI:10.1115/1.4002100
- 194b BERRUTI T., FIRRONE C.M., GOLA M.M., (2011), Banco sperimentale per la risposta forzata non lineare di dischi palettati con un sistema di eccitazione non a contatto, 40° Convegno Nazionale AIAS, Palermo sept. 2011
- 195 ZUCCA S., BOTTO D., GOLA M.M. (2011). A new reduction technique for thermal models with fluid networks, JOURNAL OF THERMAL STRESSES, Taylor & Francis Vol.34 pp.20 (pp.667-686) ISSN:0149-5739 DOI:10.1080/01495739.2010.550826 [link](#)
- 196 FIRRONE C.M.; ZUCCA S; GOLA M.M. (2011). The effect of underplatform dampers on the forced response of bladed disks by a coupled static/dynamic harmonic balance method, INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, Vol.46 pp.13 (pp.363-375) ISSN:0020-7462 DOI:10.1016/j.ijnonlinmec.2010.10.001 [link](#)
- 197 LAVELLA M., BOTTO D., GOLA M.M., Test rig for wear and contact parameters extraction for flat-on-flat contact surfaces, ASME/STLE 2011 International Joint Tribology Conference, IJTC 2011, Los Angeles, CA, United States, 24-26 October 2011, DOI: 10.1115/IJTC2011-61234 [link](#)
- 197 bis BOTTO D.; LAVELLA M.; GOLA M.M., (2011), Macchina di prova ad accostamento libero ed alta temperatura per la microtribologia di superfici vibranti piane, 40° Convegno Nazionale AIAS, Palermo sept. 2011
- 198 ZUCCA S., FIRRONE C.M., GOLA M.M. (2011), Smorzatori sotto-pala per turbomacchine: un nuovo metodo basato sul calcolo simultaneo delle forze statiche e dinamiche di contatto, 40° Convegno Nazionale AIAS, Palermo sept. 2011 [link](#)
- 199 Botto, D, Lavella, M, & Gola, MM. "Measurement of Contact Parameters of Flat on Flat Contact Surfaces at High Temperature." *Proc. ASME Turbo Expo 2012 - Volume 7: Structures and Dynamics*, Copenhagen, Denmark. June 11–15, 2012. pp. 1325-1332 <https://doi.org/10.1115/GT2012-69677> [link](#)
- 200 ZUCCA S., PIRACCINI F., GOLA M.M. (2012), Non-linear Dynamics of Steam Turbine Blades with Shroud: Numerical Analysis and Experiments., ASME (USA), ASME Turbo Expo 2012, Copenhagen (Denmark) June 11-15 2012, pp. 10, 2012 [link](#)
- 201 BOTTO D., LAVELLA M., GOLA M.M. (2012), Test Rig for Extraction of the Contact Parameters for Plane on Plane Contact., ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2012, CHICAGO August 12-15, 2012, DETC2012-70950 [link](#)
- 202 GOLA M.M., BRAGA DOS SANTOS M., LIU T. (2012), Measurement of the scatter of underplatform damper hysteresis cycle: experimental approach, ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2012, CHICAGO August 12-15, 2012, IDETC2012-70269
- 203 ZUCCA S., FIRRONE C.M., GOLA M.M. (2012), Modeling Underplatform Dampers for Turbine Blades: a Refined Approach in the Frequency Domain., JOURNAL OF VIBRATION AND CONTROL, SAGE, pp. 16, 2012, ISSN: 1077-5463, DOI: 10.1177/1077546312440809 [link](#)
- 204 ZUCCA S., FIRRONE C.M., GOLA M. M. (2012), Numerical Assessment of Friction Damping at Turbine Blade Root Joints by Simultaneous Calculation of the Static and Dynamic Contact Loads, Nonlinear Dynamics 01/2012; 67:1943-1955. DOI: 10.1007/s11071-011-0119-y [link](#)
- 205 LAVELLA M., BOTTO D., GOLA M.M., Design of a high-precision, flat-on-flat fretting test apparatus with high temperature capability., WEAR, Volume 302, Issues 1–2, April–May 2013, Pages 1073–1081 [link](#)
- 206 FIRRONE C.M., BERRUTI T., GOLA M.M. On force control of an engine order type excitation applied to a bladed disk with underplatform dampers, JOURNAL OF VIBRATION AND ACOUSTICS, vol. 135 n. 4, 2013, ISSN 1048-9002 [link](#)

- 207 LAVELLA M., BOTTO D., GOLA M.M., Characterization of contact parameters and fretting wear behavior of T-800 coating on Inconel 718, T. Raparelli, E. Ciulli, B. Piccigallo, L. Mazza, F. Colombo, A. Trivella Ed., WTC 2013, 5th World Tribology Congress, Torino, September 8 – 13, 2013, ISBN 978-88-90818509
- 208 BOTTO D., FIRRONE C., CALZA P., GOLA M.M., Dynamic Identification of Friction Damping in the Joints of an Engine-Like Bladed-Disks, T. Raparelli, E. Ciulli, B. Piccigallo, L. Mazza, F. Colombo, A. Trivella Ed., WTC 2013, 5th World Tribology Congress, Torino, September 8 – 13, 2013, ISBN 978-88-90818509
- 209 BOTTO D., LAVELLA M., GOLA M.M., ZANON G.P., PETRACHI M. R., High Temperature Comparative Tribological Study of CoCrTaAlY Coatings Reinforced with Different Percentages of Alumina, T. Raparelli, E. Ciulli, B. Piccigallo, L. Mazza, F. Colombo, A. Trivella Ed., WTC 2013, 5th World Tribology Congress, Torino, September 8 – 13, 2013, ISBN 978-88-90818509
- 210 BOTTO D., LAVELLA M., GOLA M.M., Utilization of Abbott-Firestone Curves to Characterize the Wear Behavior of Low Wear Rate Coating Layers, T. Raparelli, E. Ciulli, B. Piccigallo, L. Mazza, F. Colombo, A. Trivella Ed., WTC 2013, 5th World Tribology Congress, Torino, September 8 – 13, 2013, ISBN 978-88-90818509
- 211 GOLA M.M., LIU T., BRAGA DOS SANTOS M., Investigation of under-platform damper kinematics and its interaction with contact parameters (nominal friction coefficient), T. Raparelli, E. Ciulli, B. Piccigallo, L. Mazza, F. Colombo, A. Trivella Ed., WTC 2013, 5th World Tribology Congress, Torino, September 8 – 13, 2013, ISBN 978-88-90818509
- 212 BERRUTI T., FIRRONE C., GOLA M.M., CALZA P., The effect of friction contacts on the dynamics of a rotating vane segments array : simulation and comparison with experimental result, T. Raparelli, E. Ciulli, B. Piccigallo, L. Mazza, F. Colombo, A. Trivella Ed., WTC 2013, 5th World Tribology Congress, Torino, September 8 – 13, 2013, ISBN 978-88-90818509
- 213 SQUARCELLA N., FIRRONE C.M., ALLARA M., GOLA M., The importance of the material properties on the burst speed of turbine disks for aeronautical applications, International Journal of Mechanical Sciences 84 (2014) 73–83 [link](#)
- 214 GOLA M. M. , GASTALDI C., Understanding Complexities in Underplatform Damper Mechanics, Proc. ASME Turbo Expo 2014, Düsseldorf, June 16-20, 2014, Paper No. GT2014-25240, Volume 7A: Structures and Dynamics, pp. V07AT34A002, 12 pages, DOI:10.1115/GT2014-25240
- 215 GOLA M. M. , GASTALDI C., Latest Investigations on Underplatform Damper inner Mechanics, Int. Conf. on Science and Technology Problems and Prospects of the Propulsion Engineering Development, SSAU, Samara, June 25–27, 2014,
- 215 bis In: ВЕСТНИК САМАРСКОГО УНИВЕРСИТЕТА - АЭРОКОСМИЧЕСКАЯ ТЕХНИКА, ТЕХНОЛОГИИ И МАШИНОСТРОЕНИЕ (Bulletin of Samara University - aerospace and mechanical engineering), Vol 13, No 5-1 (2014): Special Issue, Pages: 215-226, [link](#)
URL: <https://journals.ssau.ru/vestnik/article/view/2500>, DOI: [https://doi.org/10.18287/1998-6629-2014-0-5-1\(47\)-215-226](https://doi.org/10.18287/1998-6629-2014-0-5-1(47)-215-226)
- 216 GOLA M. M. , GASTALDI C., Numerical and experimental investigations on underplatform damper mechanics, paper 462, 43° Convegno Nazionale AIAS, Rimini, Sept. 9-12 2014
- 217 GOLA M. M. , GASTALDI C., An improved Microslip Model for variable normal Loads, 9th IFTOMM International Conference on Rotor Dynamics, IFTOMM ICORD 2014, September 22-25, 2014, Milano
- 217 bis Proceedings of the 9th IFTOMM International Conference on Rotor Dynamics, Mechanisms and Machine Science, editor Paolo Pennacchi, Springer, 2015, print ISBN: 978-3-319-06589-2, Electronic ISBN: 978-3-319-06590-8 [link](#)
- 218 GOLA M. M. , GASTALDI C., Tools and methods for investigations on underplatform damper inner Mechanics, ICSDV-14: 1st International Conference on Structural Dynamics and Vibrations, Institute of Space Technology, Nov. 18-19 2014, Islamabad, Pakistan
- 219 GOLA M. M., LIU T., A direct experimental numerical method for investigations of a laboratory underplatform damper behavior, Int. J of Solids and Structures 51 (25–26) (2014) 4245–4259. <https://doi.org/10.1016/j.ijsolstr.2014.08.011> [link](#)
- 220 BOTTO D., LAVELLA M., GOLA M., Numerical Model for Elastic Contact Simulation, IMAC XXXIII, Orlando FL, USA, Feb. 2-5 2015
- 221 PANUNZIO A.M., SALLES Loïc, SCHWINGSHACKL C., GOLA M.M., Asymptotic numerical method and polynomial chaos expansion for the study of stochastic non-linear normal modes, GT2015-43560 Proceedings of ASME Turbo Expo 2015 TE2015 June 15-19, 2015, Montreal, Canada [link](#)

- 222 ASAII K., GOLA M.M., Experimental verification of friction behaviors under periodically-varied normal force by developing a two-directional friction test system, GT2015-42318, Proceedings of ASME Turbo Expo 2015 TE2015 June 15-19, 2015, Montreal, Canada [link](#)
- 223 GASTALDI C., GOLA M.M., A random sampling strategy for tuning contact parameters of underplatform dampers, GT2015-42834, Proceedings of ASME Turbo Expo 2015 TE2015 June 15-19, 2015, Montreal, Canada
- 224 GOLA M. M., Overview of Test Rigs at AERMEC Laboratory, in Proceedings of the Fourth International Workshop on Jointed Structures, SANDIA REPORT SAND 2016-9962 (Unlimited Release) Printed October, 2016; p. 308-323 [link](#)
- 225 GASTALDI C., GOLA M.M., Testing, Simulating and Understanding Underplatform Damper Dynamics. In Proceedings of ECCOMAS, VII European Congress on Computational Methods in Applied Sciences and Engineering, M. Papadrakakis, V. Papadopoulos, G. Stefanou, V. Plevris (eds.), Crete Island, Greece, 5–10 June 2016 [link](#)
- 226 GASTALDI C., GOLA M.M.: On the relevance of a microslip contact model for under-platform dampers. DOI:10.1016/j.ijmecsci.2016.06.015. In INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES - ISSN:0020-7403, Volumes 115–116, September 2016, Pages 145–156, online at <http://www.sciencedirect.com/science/article/pii/S0020740316301023> [link](#)
- 227 GASTALDI C., GOLA M.M.: Pre Optimization of Asymmetrical Underplatform Dampers, GT2016-57359. In Proceedings of ASME Turbo Expo 2016: Turbine Technical Conference and Exposition, June 13-17, 2016, Seoul, South Korea [link](#)
- 227 bis GASTALDI C., GOLA M.M.: Pre-optimization of Asymmetrical Underplatform Dampers, ASME JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER, 2016-07-18T22:34:49Z, DOI 10.1115/1.4034191, <http://gasturbinespower.asmedigitalcollection.asme.org/article.aspx?articleid=2536540> [link](#)
- 228 GASTALDI C., GOLA M. M.: Estimation accuracy vs. engineering significance of contact parameters for solid dampers, Int. Conf. Global Power and Propulsion Society Forum, Zurigo, January 16-18, 2017. pp. 1-7
- 228 bis In: JOURNAL OF THE GLOBAL POWER AND PROPULSION SOCIETY. - ISSN 2515-3080. - (2017), pp. 1-13.
- 229 GASTALDI C., GOLA M. M.: "Underplatform damper measurements at Politecnico di Torino", book chapter in: The mechanics of jointed structures / Matthew R. Brake, Springer International Publishing, pp. 181-204, online July 2017, doi: 10.1007/978-3-319-56818-8_13, ISBN: 978-3-319-56816-4, paper issue July 2018 [link](#)
- 230 BOTTO D., UMER M., GASTALDI C., GOLA M. M., An experimental investigation of the dynamic of a blade with two under-platform dampers, ASME Turbo Expo 2017, Charlotte, June 26-30, 2017
- 230 bis (same) (ASME) JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER. published online October 17, 2017, <https://doi.org/10.1115/1.403877310.1115/1.4037865> – [link](#)
<https://gasturbinespower.asmedigitalcollection.asme.org/article.aspx?articleid=2653982>
- 231 GASTALDI, C, BERRUTI, TM, & GOLA, MM. The Relevance of Damper Pre-Optimization and its Effectiveness on the Forced Response of Blades. *Proceedings of the ASME Turbo Expo 2017: Turbomachinery Technical Conference and Exposition. Volume 7B: Structures and Dynamics*. Charlotte, North Carolina, USA. June 26–30, 2017. V07BT35A023. ASME. [link](#)
- 231 bis GASTALDI, C., BERRUTI, T. M., AND GOLA, M. M. (April 5, 2018). "The Relevance of Damper Pre-Optimization and Its Effectiveness on the Forced Response of Blades." ASME. J. Eng. Gas Turbines Power. June 2018; 140(6): 062505. <https://doi.org/10.1115/1.4038773> [link](#)
- 232 GOLA M.M., GASTALDI C., The present state of “solid” underplatform damper mechanics at AERMEC POLITO, 2017 International Conference on Aerospace Technology, Communications and Energy Systems (ATCES 2017), Samara University, Russia, September. 28-30th, 2017 - OP Conf. Series: Materials Science and Engineering 302 (2018) 012016 DOI: 10.1088/1757-899X/302/1/012017 Open access: <http://iopscience.iop.org/article/10.1088/1757-899X/302/1/012017> [link](#)
- 233 BOTTO D., GASTALDI C., GOLA M. M., UMER M., Experimental study of under-platform damper kinematics in presence of blade dynamics, 2017 International Conference on Aerospace Technology, Communications and Energy Systems (ATCES 2017), Samara University, Russia, September. 28-30th, 2017 [link](#)
- 233 bis IOP Conf. Series: Materials Science and Engineering 302 (2018) 012016 doi:10.1088/1757-899X/302/1/012016 - Open access: <http://iopscience.iop.org/article/10.1088/1757-899X/302/1/012016> [link](#)

- 234 GASTALDI C., BERRUTI T.M, GOLA M. M., Best practices for underplatform damper designers, Proc. Inst. Mech. Eng., Part C, Jour. Mech. Eng. Sci. - ISSN 0954-4062. - (2018), pp. 1-15 [link](#)
- 235 XU Chao, LI Dongwu , GASTALDI C., GOLA M. M., A Comparison of Two Microslip Contact Models for Studying the Mechanics of Under-platform Dampers, GT2018-77007, ASME TurboExpo 2018, Lillestrøm (Oslo), Norway, June 11-15, 2018 [link](#)
- 236 ALINEJAD F., BOTTO D., GOLA M., BESSONE A., Reduction of the design space to optimize blade fir-tee attachments, GT2018-75781, ASME TurboExpo 2018, Lillestrøm (Oslo), Norway, June 11-15, 2018 [link](#)
- 237 GASTALDI C., GOLA M. M., Criteria for best performance of pre-optimised solid dampers, GT2018-75961, ASME TurboExpo 2018, Lillestrøm (Oslo), Norway, June 11-15, 2018 [link](#)
- 237 bis J. Eng. Gas Turbines Power, (same title) 2018, DOI: 10.1115/1.4040820 [link](#)
- 238 LI D., XU C., LIU T., GOLA M.M., WEN L., A modified IWAN model for micro-slip in the context of dampers for turbine blade dynamics, Mechanical Systems and Signal Processing, online 2018.11.17 , ,Vol. 121, 15 April 2019, Pages 14-30 <https://doi.org/10.1016/j.ymssp.2018.11.002>, [link](#)
- 239 LI D., XU C., GOLA M., BOTTO D., Reduced-order modelling friction contact for cylinder-flat contact and experimental validation in an under-platform damper, NODYCON 2019, First International Nonlinear Dynamics Conference, Roma, February 17-20 2019 [link](#)
- 239 bis Reduced-Order Modeling Friction for Line Contact in a Turbine Blade Damper System, Chapter in book: Nonlinear Dynamics and Control, DOI: 10.1007/978-3-030-34747-5_20, January 2020, https://link.springer.com/chapter/10.1007%2F978-3-030-34747-5_20 [link](#)
- 240 GASTALDI, C, GOLA, MM. "Design Tools to the Best Coupling of Dry-Friction Solid Underplatform Dampers to Turbine Blades." *Proceedings of the ASME Turbo Expo 2019: Turbomachinery Technical Conference and Exposition*. Volume 7B: Structures and Dynamics. Phoenix, Arizona, USA. June 17–21, 2019. V07BT35A014. ASME. <https://doi.org/10.1115/GT2019-91040> [link](#)
- 240 bis J. Eng. Gas Turbines Power. Jun 2018, 140(6): 062505, Paper No: GTP-17-1539 <https://doi.org/10.1115/1.4038773> [link](#)
- 241 Gastaldi C., Berruti T., Gola M. M., Bessone A., Experimental Investigation on Real Under-platform Dampers: the Impact of Design and Manufacturing, ASME TurboExpo 2019, Phoenix Convention Center, Phoenix, AZ (US), June 17 – 21, 2019 [link](#)
- 242 LI D., BOTTO D., XU C., LIU T., GOLA M., A micro-slip friction modeling approach and its application in underplatform damper kinematics, International Journal of Mechanical Sciences, <https://doi.org/10.1016/j.ijmecsci.2019.105029>, Available online 16 July 2019, Volumes 161–162, October 2019, 105029 [link](#)
- 243 GASTALDI C., BERRUTI T., GOLA M. M., A novel test rig for friction parameters measurement on underplatform dampers, International Journal of Solids and Structures 185–186 (2020) 170–181, <https://doi.org/10.1016/j.ijsolstr.2019.08.030> [link](#)
- 244 GASTALDI C., BERRUTI T., GOLA M. M., The effect of surface finish on the proper functioning of underplatform dampers, Tribomechadynamics 2019, Rice Univ. USA [link](#)
- 244 bis GASTALDI C., BERRUTI T., GOLA M. M., The Effect of Surface Finish on the Proper Functioning of Underplatform Dampers, J. Vib. Acoust. Oct 2020, 142(5): 051103, <https://doi.org/10.1115/1.4046954> [link](#)
- 245 BRAGA DOS SANTOS M., GOLA M.M., GASTALDI C., LIU T., The AERMEC test-rigs for the investigations on turbine blade friction dampers, 25th ABCM International Congress of Mechanical Engineering, Oct. 20-25, 2019, Uberlândia, MG, Brazil, doi://10.26678/ABCM.COBF2019.COB2019-2375 [link](#)
- 246 LI D., BOTTO D., XU C., GOLA M., A new approach for the determination of the Iwan density function in modeling friction contact, International Journal of Mechanical Sciences, ISSN 0020-7403. Vol. 180, 2020, <https://doi.org/10.1016/j.ijmecsci.2020.105671> , [link](#)
- 247 LI D., XU C., BOTTO D., ZHANG Z., GOLA M., A fretting test apparatus for measuring friction hysteresis of bolted joints, Tribology International, Vol. 151, Nov. 2020, Article number 106431 [link](#)
- 248 GASTALDI C., GOLA M. M., Platform centered reduction: a process capturing the essentials for blade-damper coupled optimization, ASME Turbo Expo 2020: Turbomachinery Technical Conference and Exposition, Virtual conf. online Sept. 21-25 2020, DOI:10.1115/GT2020-16317 [link](#)

- 248 bis "Platform Centered Reduction: a Process Capturing the Essentials for Blade-Damper Coupled Optimization." ASME. Journal of Engineering for Gas Turbines and Power, 2021, 143(8), 081001, DOI: <https://doi.org/10.1115/1.4049187> [link](#)
- 249 LI D., BOTTO D., XU C., GOLA M., Fretting wear of bolted joint interfaces, WEAR, Vol. 458–459, 2020, ISSN 0043-1648, <https://doi.org/10.1016/j.wear.2020.203411>. [link](#)
- 250 WU Y. G., LI L., FAN Y., MA H. Y., ZUCCA S., GOLA M., Design of wave-like dry friction and piezoelectric hybrid dampers for thin-walled structures, Journal of Sound and Vibration, 2021, 493, 115821 [link](#)
- 251 GASTALDI C., GOLA M., An application of the platform centered reduction to the design of dampers according to blade size, 14th World Congress on Computational Mechanics (WCCM), ECCOMAS Congress 2020, Virtual Congress 11-15 January, 2021 [link](#) (paper), [link](#) (presentation)
- 252 GASTALDI C., GOLA M.M., A Method to Minimize the Effort for Damper–Blade Matching Demonstrated on Two Blade Sizes. Appl. Sci. 2021, 11, 5171. <https://doi.org/10.3390/app11115171> [link](#)
- 253 GASTALDI C., GOLA M.M., Non-Linear Damper-Blade Coupling Calculations Reduced to Essentials, Proceedings of ASME Turbo Expo 2022: Turbine Technical Conference and Exposition GT2022 June 13-17, 2022, Rotterdam, The Netherlands - paper n. GT2022-14630 [link](#) (paper) [link](#) (presentation)
- 253 bis J. Eng. Gas Turbines Power. Feb 2023, 145(2): 021016 (10 pages), Paper No: GTP-22-1427, Published Online: November 29, 2022, <https://doi.org/10.1115/1.4055414> [link](#)
- 254 GOLA M.M., A general geometrical theory of turbine blade underplatform asymmetric dampers, Mechanical Systems and Signal Processing, Vol. 191, 15 May 2023, 110167 – online 2023.02.20, open access, <https://doi.org/10.1016/j.ymssp.2023.110167> [link](#)
- 255 GASTALDI C., GOLA M.M., Competing dry friction contact models for underplatform dampers, ICCC 2023 International Conference on Computational Contact Mechanics, July 5-7, 2023, Torino, ITALY (ext. abstract) [link](#)
- 256 GASTALDI C., GOLA M.M., Convergence-free mapping of non-linear damper-blade performance, Mechanical Systems and Signal Processing 208 (2024) 111062, <https://doi.org/10.1016/j.ymssp.2023.111062>

INVITED LECTURES & KEYNOTE PRESENTATIONS (from 2017)

ATCES 2017, Samara University, Russia, September. 28-30th, 2017: A DECADE OF RESEARCH ON "SOLID" UNDERPLATFORM DAMPER MECHANICS AT AERMEC – POLITO, [link](#)

1st SDJS - Symposium on the Dynamics of Jointed Structures November 3-5 2017, Northwestern Polytechnical University Xi'an China: 2007-2017: A DECADE OF RESEARCH ON "SOLID" UNDERPLATFORM DAMPER MECHANICS AT AERMEC – POLITO, [link](#)

3rd SDJS - Symposium on the Dynamics of Jointed Structures May 27-28 2019 Nanjing China: IMPROVING AND REVISING IDEAS ON UNDERPLATFORM DAMPER RESEARCH AT AERMEC – POLITO", [link](#)

COBEM - 25th ABCM International Congress of Mechanical Engineering, Oct. 20-25, 2019, Uberlândia, MG, Brazil, REVISING AND IMPROVING IDEAS ON TURBINE UNDERPLATFORM DAMPER RESEARCH AT AERMEC-POLITO, [link](#)

2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST), 12 - 16 Jan 2021, Prof. Abdus Salam Centre for Physics, Islamabad, Pakistan: AN UPDATED 2020 OVERVIEW OF TURBINE BLADE UNDERPLATFORM DAMPING RESEARCH AT AERMEC-POLITO", [link](#)

2021 Silk Road International Symposium on the Cooperation and Integration of Industry, Education, Research and Application of Aeronautics and Astronautics , Oct 29, 2021, Xi'an, China: VIBRATION MITIGATION IN TURBOMACHINERY - THE NON-LINEAR DAMPER-BLADE MATCHING BOILS DOWN TO THE ESSENTIALS, [link](#)

BUAA online joint seminar Nov. 23, 2021: VIBRATION MITIGATION IN TURBOMACHINERY - THE NON-LINEAR DAMPER-BLADE MATCHING BOILS DOWN TO THE ESSENTIALS, [link](#)

19th International Bhurban Conference on Applied Sciences and Technology, 16-20 August 2022: VIBRATION MITIGATION IN TURBOMACHINERY – A RATIONAL UNIFIED APPROACH TO SOLID UNDERPLATFORM DAMPERS, [link](#)

BUUA (Beijing) - Polito-Beihang Bilateral Academic Seminar 2024 - 都灵理工-北航双边学术研讨会 2024 - supported by the High-end Foreign Expert Exchange Project of China Ministry of Science and Technology – Kickoff of BLADE TAMER BEIHANG-POLITO Joint Laboratory - 2024 February 19-23 [link](#)

NUAA (Nanjing University of Aeronautics and Astronautics) – Seminars for doctoral students within the 短期外国专家离岸国际合作交流协议 - OFFSHORE INTERNATIONAL COOPERATION AGREEMENT FOR SHORT-TERM FOREIGN EXPERTS – 2024 April 9-12 [link](#) [link](#) [link](#)

QUALITY ASSURANCE, EVALUATION, ACCREDITATION

The activity was developed on three main fronts:

- Study, development and test/routine application of systems to address various aspects of Quality Assurance in university courses
- Formulation of guidelines for the evaluation and accreditation of university training activities
- Participation in evaluation and accreditation activities on behalf of Italian or foreign agencies

Chronologically, the following characterizing periods can be distinguished:

- 2014-2019: conducting accreditation visits, training activities for teachers and TA staff on University Quality Assurance, consultancy for the development of structures and documents for the University QA
- 2012-2014: collaboration with ANVUR as an expert for the development of the ANVUR-AVA system
- 2003-2010: activities within the Turin Polytechnic, development of the Information Model and the related QA system, development of documents and methods for the Piedmont Region Accreditation, implementation of the computerized QA system of the Turin Polytechnic in the occasion of the transition to Ministerial Decree 270/2004 of 100% of the Degree Courses at the end of 2009 (In line with the decision of the Academic Senate of 12 March 2008, the Rector provided for the establishment of the Quality Assurance Group on the 21st of October 2008 Academic Senate approved the start of the development of the online INFORMATION MODEL)
- 1999-2004: consultancy initially for the National Observatory of the University System, later for CNVSU (National committee for the evaluation of the University system), culminating in the "Information model for the accreditation of Degree Programs", Final report of the research group "Evaluation of teaching and accreditation", RdR 01-04, February 2004
http://www.cnvsu.it/publ/doc/comitato/default.asp?id_documento_padre=11137
- 1997-2002: initial activity at the Polytechnic of Turin, later in the context of CRUI-CAMPUS national project

Participation to “Presidî della Qualità di Ateneo” (University Quality Boards)

- 2015/2021 President, Presidio Università di Scienze Gastronomiche, Pollenzo

Participation to “Nuclei di Valutazione” (External Evaluation Boards)

- 2020/2023 Università della Calabria
- 2020/2022 Università di Padova
- 2013/2019-01 Alma Mater Studiorum Università di Bologna (President)
- 2008/2015 Univ. degli studi di Scienze Gastronomiche, Pollenzo
- 2006/2013 Università di Trento
- 2003/2013 Università di Messina (President)
- 2002/2006 Politecnico di Milano
- 2009/2013 Università della Calabria
- 2000/2006 Università della Calabria
- 1998/2001 Università di Bologna

Collaboration with Agencies, Bodies and other entities

- 2015/16 Member of the "AVA Working Group", (CD ANVUR 10/2015)
- 2015.3.1 Invitation by prof. Li Huaxing, Director of "Office of International Cooperation", to visit Northwestern Polytechnical University (NPU), Xi'an, China, and to present the training experiences of the Polytechnic of Turin and Quality Assurance, in May 2015
- 2014 Nov / Dec, University of Turin, assignment for 4 training sessions for the training course "Self-Assessment, Evaluation and Accreditation for the Management of Study Programs"
- 2014-2020 registered in the ANVUR System Experts register

- 2014-15 contracted as ANVUR Expert for "Support activities for the drafting and testing of guidelines for carrying out visits by evaluation experts as part of the initial and periodic accreditation of university structures and study courses"
- 2013-2016 member of the "Scientific-Strategic Committee" of "AlmaLaurea", Bologna
- 2012-13 contracted as ANVUR Expert for "Support activities for the development of the national system for quality assurance and university evaluation"
- 2011-2013 Speaker at the ANVUR Days on AVA (Self-Assessment, Evaluation and Accreditation System): Bari 2011 11 09, Bologna 2012 11 05, Bolzano 2012 12 03, Catania 2013 02 14, Ferrara 2014 10 24, Florence 2012 03 14, Milan 2012 11 15, Modena 2013 02 25, Naples 2013 01 24, Padua 2012 11 21, Padua 2013 07 11, Palermo 2012 11 19, Rome 2012 10 29, Salerno 2013 02 26, Turin 2012 10 26, Trieste 2012 11 26
- from 2011 to 2019, member of the QUACING EUR-ACE Agency Control Room, Rome2009-2013, elected member of Co-CONVUI, Organizing Committee "Coordination of Evaluation Nuclei of Italian Universities"
- 2008.4.22 (6 months) designated to be part of the CLESSIDRA working group of CINECA and KION to make tools available to support Quality Assurance
- 2004-2005 contract with Alma Mater Studiorum - University of Bologna, for teacher training and TA "Project accreditation of qualifications in Europe"
- 2003-2004 development of the OPERATING MANUAL for ACCREDITATION of OPERATING OFFICES Type L (Degrees) - within Macrotype B, Politecnico di Torino - GESD and PIEDMONT REGION - Vocational Training Management - Training Activity Sector
- 2002-2004 coordinator of the Evaluation and Accreditation Working Group of the CNVSU (National Committee for the Evaluation of the University System) of the MIUR
- 2002, participation in CRUI in the development of the CampusOne evaluation model
- 2001, external observer aggregated to one of the CAPES commissions (Brazil) "45 Comissões de Avaliação - 2001", for the basic areas: Mechanical engineering, production engineering, naval and oceanic engineering, marine and oceanic structures, aerospace engineering, mechanical and industrial engineering
- 2001.2.12-17 AICQ-SICEV (Italian Quality Association) qualification following the CAMPUS-AICQ course / final exam
- 2000, project manager of the pilot project "Accreditation - Evaluation Model" (Quality Program in Level I Training) of the Politecnico di Torino
- 2000, member of the research group "Accreditation of study courses", appointed by MIUR - Observatory for the evaluation of the university system
- 1999-2000, SINAI Development Committee, pilot project for the evaluation of the Faculties of Engineering in Italy
- 1999, member of the research group "Research group - Basic questionnaire to be used for the implementation of a program for the evaluation of teaching by students", appointed by MIUR - Observatory for the evaluation of the university system
- 1998, co-ordinator of the Research Group "Student Opinions" (Research Group for the "Evaluation of teaching by students"), appointed by MIUR

Evaluations on behalf of Agencies and Institutions

- 2023.05.15-17 (visit) Team Leader of the QUACING-EURACE accreditation of Mechanical Engineering bachelor and master courses, Università Roma La Sapienza
- 2021.10.11-13 (visit) Coordinator of the Expert Panel appointed by the Free University of Bolzano, assessment of the Faculty of Science and Technology – Engineering Area
- 2020.02.24-25 (visit) President of the Commission of Experts for the meta-evaluation of processes related to the quality of SUPSI - basic training

- 2019.01.14-18 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of Link Campus University
- 2018.11.26-29 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the University of Trieste
- 2017.12.11-15 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the University of Naples Federico II
- 2016.12.12-16 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the University of Udine
- 2016.11.7-11 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the Polytechnic University of Marche, Ancona
- 2016.10.24-28 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the IUAV-University Institute of Architecture of Venice
- 2016.06.8-12 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the "Niccolò Cusano" University
- 2015.03.23-27 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the University of Camerino
- 2014.11.24-28 (visit) President of the Commission of Evaluation Experts (CEV-ANVUR) for the accreditation of the University of Perugia
- 2014.10 (visit) Member of the assessment committee, Institutional Accreditation of Tallinn University of Technology (TUT), Estonian Higher Education Quality Agency (EKKA) 2014.03, component "CEV 4" for pre-activation visits, study courses of the CUN 1 areas -2-3-8-9, ANVUR
- 2013.06.3-4-5 Evaluation of the study courses of Mechanical Engineering (CL) and Mechanical Engineering (LM) at the University of Salerno, QUACING - Agency for quality certification and EUR-ACE accreditation of study courses in engineering
- 2009, Yerevan, Armenia, Assessor for "Assessment of the current state of formulation of internal QA standards for Armenian HEI's", Ref. Project funded by OSIAF / Open Society Institution Support Foundation
- 2010.10.22: evaluator for OAQ - Switzerland: team leader, verification of requirement for accreditation process of the BA "Ingénieur-e Designer" de la Haute école spécialisée de la Suisse Occidentale (HES-SO)
- 2008.11.16-18: evaluator for OAQ - Switzerland: team leader, accreditation of the BA course "Ingénieur-e Designer" de la Haute école spécialisée de la Suisse Occidentale (HES-SO)
- 2008.6.5-6: evaluator for OAQ - Switzerland: team leader, accreditation of the BA course "Technology of machines", DTI-Department of Innovative Technologies, SUPSI-Professional University School of Italian Switzerland
- 2008.5.6-7: evaluator for OAQ - Switzerland: member of the 2007/08 Quality Audit group of the "USI - Università della Svizzera Italiana"
- 2006 nov., 2007 feb., Evaluator for OAQ - Switzerland: member of the group for the joint evaluation OAQ-CTI (Commission du Titre D'Ingenieur - France) at the École Politehnique Fédérale Lausanne
- 2004, evaluator for OAQ - Switzerland: member of the Accreditation team, L.U.de.S. Paradiso (Lugano)
- 2002, external evaluator of the Finnish part for the Leonardo 2 European Project "Expérimentation de l'Evaluation européenne de la Qualité de la formation supérieure pour l'Industrie" of the "European Network for Quality of Higher Engineering Education for Industry" (ENQHEEI)
- 1998, 1999, 2000, external evaluator for CAMPUS, CRUI
- 1997, SECAI evaluator at the Univ. Católica Valparaíso, Chile (Civil-Mechanica and Civil-Industrial Eng.)

International Projects

- 2010-2013, Partner of the European project TEMPUS - UNIQTOOL "Implementing tools and policies for quality work at institutional level"

- 2010-1012, Partenaire et Membre du Comité de Pilotage, European project TEMPUS - GRINSA "Graduate's Insertion and Assessment as tools for Moroccan Higher Education Governance and Management"
- 2008-2010, Grant Holder, TEMPUS - AIRQUAL European project "Development of Qualifications Framework for Cycles of Higher Education in Aircraft Engineering"
- 2007-2009 Europe-Latin America project ALFA - MIRROR, "Development of a reference model for comparison and recognition of engineering programs", EuropeAid Co-operation office, Reference Team co-leader
- 2004-2007: Leader of working group "SIG A4 - Tools for Quality Assurance and Assessment of Engineering Education" of the European Project TREE (Teaching and Research in Engineering in Europe)
- 2001-2003, participant and "Rapporteur" of the European project E4, Activity 2: Quality Assessment and Quality Assurance (higher education),
- 1998-2000 participation in H3E (European project Higher Engineering Education for Europe), Working Group n. 2 "Quality Recognition in Engineering Education"; rapporteur: of the State-of-the-art Report "Quality Assessment and Quality Assurance" (higher education)
- 1995 and 1997, participation in the CRE-Columbus SECAI School for Assessors (Cartagena de Indias)

Seminars, Courses, Meetings, Conferences

- 2022.4.12-13, UNIVPM Università Politecnica delle Marche, n. 3 training events "Scheda SUA-CdS: making it an effective tool"
- 2021.10.21&27 Univ. Piemonte Orientale UNIPO: Training meetings on the contents of the "Annual Monitoring Form for Study Courses (SMA – Scheda Monitoraggio Annuale)
- 2020.11.12 (online, Paris, South America), seminar "Aseguramiento de la Calidad", Programa para formación de directivos universitarios, Columbus
- 2019.03.26 Lucca, speech "Nettle as a beneficial plant" at the Accreditation conference: comparing experiences, IMT Scuola Alti Studi Lucca
- 2018.09.24 Salerno, PTA training in the Quality Assurance system, intervention at the III National Organizational Coordination of MdQNext Quality Didactic Managers, UNISA
- 2018.05.3-4 Pisa, 2018.06.23-24 Parma, 2018.07.9-11 Naples, 2018.10.4-5 Pavia, MdQNext, course for TA training: (Re) Design in the quality of Study Programs: rules, documents and tools
- 2018, January 12 & April 11, Univ. di Parma UNIPR: training course for teachers of the University of Parma entitled "AVA 2.0 - CYCLIC REVIEW and SUA-CdS", UNIPR
- 2017.10.2-4, Training activities for teachers and TAs on "Cyclical review of study courses", Ca 'Foscari University, Venice
- 2017.06.8-9, 2017.07.10-11 and 2017.07.18-19, teacher in three "Training Days for system experts", ANVUR, Rome
- 2015.05.26, introductory report "Quality assessment: comparing experiences in Italy and Europe" at the Conference "Quality Paths to Insubria", University of Insubria, Varese
- 2014.12.4-5, presentation "The rationale behind ANVUR on-site visits for periodic accreditation" and participation in the round table "On-site visits" at the ANVUR International Conference "Teaching and Research evaluation in Europe"
- 2014.10.24, presentation "Periodic accreditation: guidelines and judgment criteria" at the ANVUR Conference "In-Training Self-Assessment, Evaluation and Accreditation System", University of Ferrara
- 2013.7.11, participation in the round table "Procedures, evaluation and follow up of the surveys of student opinion" by ANVUR at the University of Padua, intervention "Procedures, evaluation and follow up of the surveys of the opinion of students at the Politecnico of Turin

- 2013.7.4, presentation "Self-Assessment, Evaluation and Accreditation System" at the ANVUR Conference "Self-Assessment, Evaluation and Accreditation System", University of Verona
- 2013.02.25, presentation "The compilation of the SUA Form and the Review Report - Examples of best practices in the compilation of the SUA Form", at the ANVUR Conference "In-Training Self-Assessment, Evaluation and Accreditation System", at: University of Studies of Modena and Reggio Emilia 2012-2013, presentation "The structure and contents of the SUA sheet and the Review sheet, at the ANVUR Conference" In-Training Self-Assessment, Evaluation and Accreditation System ", at: University of Bari 9.11.2012 , Catholic University of Milan 15.11.2012, University of Palermo 19.11.2012, University of Padua 21.11.2012, University of Trieste 26.11.2012, University of Naples Federico II 24.1.2013, University of Catania 14.2. 2013, University of Modena 25.2.2013, University of Salerno 26.2.2013, University of Florence 14.3.2013,
- 2012, presentation "The critical elements of the University AQ system", at the ANVUR Conference "In-Training Self-Assessment, Evaluation and Accreditation System", at: University of Rome La Sapienza 29.10.2012, University of Bologna 5.11.2012
- 2011.11.10-11, presentation "Evaluation and Accreditation: the European context", Seminar "Evaluation and accreditation practices in the Gelmini reform (L. 240/10), CRUI Foundation, Rome
- 2012.10.26, presentation "University QA Experiences", at the ANVUR Conference "In-Training Self-Assessment, Evaluation and Accreditation System", Politecnico di Torino
- 2011.9.28, Keynote Speech at the "SISMEC" VI National Congress, Ancona
- 2011.09.13, presentation "Quality Assurance and accreditation of study courses" at the Workshop - University teaching: evaluation and accreditation, NV University of Milan Bicocca and CONVUI
- 2010.12.16, Turin, Conference "Internal Quality Assurance of Study Programs - grasping the nettle: four years later", organization, presentation of the contribution "With the contribution of many - POLITO towards quality assurance" 2010.10.19-21, presentation " Development of Qualification Frameworks for Cycles of Higher Education in Aircraft Engineering (AIRQUAL) ", Conference on" International Standards, Accreditation and Certification in Engineering Education & Profession ", MISIS, MOSCA
- 2010.04.20-21, invited presentation "Quality Assurance of education at POLITO: why, for whom, how", Colloque International de l'Instance Nationale d'Évaluation du système d'Éducation et de Formation, Rabat, Maroc
- 2009.1.26, presentation of "Actions for the advancement of the AiQ Project" at the "CODAU Conference" Quality in teaching and research: correlations and tools ", University of the Sacred Heart - Milan
- 2008.10.2, presentation "Quality assurance: a priority of the Bologna Process", THE BOLOGNA PROCESS DEVELOPMENTS AND TRENDS TOWARDS THE EUROPEAN AREA OF HIGHER EDUCATION, University of Turin
- 2008.9.5-6, presentation "The state of art of university assessment in Italy", International conference on "Statistical Modeling for University Evaluation: an International Overview", University of Foggia
- 2008.3.14, invited lecture, Seminar on internal quality assurance "Quality and Quality Assurance of training in Europe and the new Italian teaching system", University of Cagliari
- 2008.2.29, invited lecture "Efficacy of the degree" (with Furio Camillo), ALMA LAUREA conference "University Training and Labor Market Needs", Catania
- 2007.11.29, lecture "Quality assurance in Italy: a general framework", MIP-SUM School "Quality assurance of teaching in universities", Politecnico di Milano
- 2007.11.24, presentation "ESG & current issues in Italy in the field of QA", Conv. Internaz. AVE-PRO "Current trends in the European Quality Assurance and the Situation in Southern Europe", Pontifical Academy of Sciences, Vatican City

- 2007.10.5, invited lecture "" The quality of study courses and their accreditation: methods and experiences of internal assessment of teaching quality in Italian universities ", NV seminar, University of Sassari 2007.7.23-27
- Summer School, Main Lecturer, "Development and Implementation of Internal Quality Assurance Mechanisms in Armenia", State Engineering Univ. of Armenia, Yerevan State Univ., Open Society Institution, July 23-27 2007
- 2007.1.22, presentation "Cogliere l'ortica (*Picking the nettle*) - The perspectives of quality assurance from a European viewpoint", University Conference on teaching, Mediterranean University of Reggio Calabria
- 2006.06.23, Turin, Conference "Internal Quality Assurance of Study Programs - AIQ of the Degree Programs", organization, presentation of the contribution "Effectiveness and sustainability of a model for the AIQ of the Degree Programs (Proceedings in Annex 2)
- 2006.2.7, lecture "Accreditation of study courses", MIP-SUM School "The qualification of University Colleges: objectives and tools", Rome
- 2005.11.4, lecture "Accreditation and certification institutions: aims and characteristics", MIP-SUM School "Services for teaching", Politecnico di Milano
- 2005.10.13, lecture "An international comparison", School "Training, accreditation and certification: methods and experiences", MIP-SUM School "Services for teaching", Politecnico di Milano
- 2005.6.27-28, presentation "Ongoing experience in Italy with the MIUR-CNVSU RdR 1/04 Quality Assurance and Accreditation Protocol (Information Model)", Luxembourg EU Presidency 3rd ENQHEI Colloquium
- 2005.3.17, presentation of an invited memoir "Evaluation and Accreditation of University Study Programs" at the international seminar "THE EVALUATION OF UNIVERSITY ACTIVITIES: STRUCTURES AND RESEARCH", Accademia dei Lincei, Rome
- 2005.2.7, presentation "The experimentation of the information model RdR 1/04 MIUR / CNVSU in the University of Bologna: form and meaning, values, requirements", conference on Quality Assurance of University Study Courses and Accreditation: Problems and Perspectives, Alma Mater Studiorum, Bologna
- 2004, principal teacher of the INTERNACIONAL SEMINAR "Validación Institucional y Acreditación Universitaria", Universidad Católica Santo Toribio de Mogrovejo, Chiclayo - Lambayeque, Perú
- 2004.07.14, Training Course "The quality of administrative services" (with Tiziana Cianni), REGIONAL ACCREDITATION of Degree Programs co-financed by the European Social Fund - II directive of the Piedmont Region - GESD Politecnico di Torino
- 2000.9.14, presentation "Evaluation in the university system", Conference "The change of the Italian university: opportunities, risks, prospects", University of Siena
- 1995.05, "La scelta dell'università", invited lecture, "Le scelte adulte dei giovani nella Società che cambia", conv. Circolo Europa Libera, Torino, 1995.05,

PUBLICATIONS ON QUALITY ASSURANCE, ACCREDITATION, EVALUATION

Research reports for the “Observatory for the evaluation of the university system” and for the CNVSU - MIUR

“Valutazione della didattica da parte degli studenti” (Evaluation of teaching by students), RdR 1-98 July 1998

Gruppo di Ricerca MIUR-Osservatorio: Lorenzo Bernardi, Lucia Boncori, Muzio Gola (Coord.), Carlo Magni, Maria Gabriella Ottaviani [link](#)

“ Questionario di base da utilizzare per l'attuazione di un programma per la valutazione della didattica da parte degli studenti ” (Basic questionnaire to be used for the implementation of a program for the evaluation of teaching by students) RdR 1-00 January 2000

Gruppo di Ricerca MIUR-Osservatorio: Bruno Chiandotto, Muzio M. Gola [link](#)

“Accreditamento dei Corsi di Studio” (“Accreditation of Degree Programs” - proposal for an Information Model for the Quality Management of Level I University Degree Programs) -, RdR 1-01 June 2001

Gruppo di lavoro MIUR-CNVSU: Pietro Alessandrini, Elio Borgonovi, Muzio Gola, Antonio Padoa Schioppa, Livio Paolillo [link](#)

“Proposta di un insieme minimo di domande per la valutazione dell’esperienza universitaria da parte degli studenti frequentanti” (Proposal of a minimum set of questions for the evaluation of the university experience by attending students) RdR 9-02 July 2002

Gruppo di Ricerca MIUR-CNVSU: Muzio GOLA (coord.), Bruno CHIANDOTTO, Luigi FABBRIS, Paolo MASSIMI, Nice TERZI, Renata VIGANO', Cristiano VIOLANI [link](#)

“Proposta di un insieme minimo di domande per la valutazione dell’esperienza universitaria da parte degli studenti che concludono gli studi”, (Proposal of a minimum set of questions for the evaluation of the university experience by students who complete their studies) Doc 4-03 April 2003

Gruppo di Ricerca MIUR-CNVSU: Muzio GOLA (coord.), Bruno CHIANDOTTO, Luigi FABBRIS, Paolo MASSIMI, Nice TERZI, Renata VIGANO', Cristiano VIOLANI [link](#)

“Modello informativo per l'accreditamento dei Corsi di Studio” (Information model for the accreditation of Degree Programs), Final report of the research group “Valutazione della didattica e accreditamento” (Evaluation of teaching and accreditation) RdR 01-04 February 2004

http://www.cnvsu.it/publidoc/comitato/default.asp?id_documento_padre=11137

Gruppo di Ricerca MIUR-CNVSU: Muzio GOLA (coord.), Piero ALESSANDRINI, Bruno CHIANDOTTO, Luigi FABBRIS, Paolo MASSIMI, Nice TERZI, Renata VIGANO', Cristiano VIOLANI [link](#) (it) [link](#) (en)

Books and chapters on Quality Assurance

- 1 Gola M.M., Luciano A. (a cura di), “Insegnare all’Università: formazione dei docenti e qualità della didattica”, Utet Libreria, Apr. 1999
- 2 GOLA M. M., Quality assurance in Engineering Education on a National and European Scale, Chapter 2 in Vol. D – Quality Assessment and Transparency for Enhanced Mobility and Trans-European recognition, E4 Thematic Network, Firenze University Press, 2003, ISBN 9788884531629, pp. 55-99
- 3 GOLA M.M., Quality assurance in higher education. A case study: Helsinki Technical University, Chapter in Orsingher Chiara (Ed.) Assessing Quality in European Higher Education Institutions. Dissemination, Methods and Procedures. Physica-Verlag Heidelberg. 2006, ISBN 9783790816884, pp. 121-132
- 4 GOLA M.M. (ed.) Proceedings of “Il Convegno di Torino - L’Assicurazione Interna della Qualità dei Corsi di Studio - AIQ dei Cds”, 23 giugno 2006 , ISBN 9788879922562
- 5 GOLA M. M., The Quality Assurance Framework: development of a communication tool for QA of Engineering Education, Chapter 5.3 in Reengineering Engineering Education in Europe, TREE Erasmus Thematic Network, Firenze University Press 2007, C. Borri, F. Maffioli editors., ISBN 9788884536754, pp. 97-102
- 6 GOLA M.M., “La qualità dei corsi di studio universitari: prima realizzarla, poi valutarla” Capitolo in “Capitale Umano - Esiti dell’istruzione universitaria”, Andrea Cammelli e Giorgio Vittadini editori, Il Mulino, Bologna, Aug. 2008, pp. 61-102, ISBN 9788815127136

- 7 CAMILLO F., GOLA M.M., Efficacia della laurea, Chapter 3 in "Formazione Universitaria ed esigenze del mercato del lavoro", X Rapporto sulla condizione occupazionale dei laureati ALMA LAUREA, il Mulino, Bologna 2008, ISBN 8815126457, 9788815126450, pp. 113-128
- 8 GOLA M. M. (ed.), Development of Qualifications Framework for Cycles of Higher Education in Aerospace Engineering, AirQual Project Final Report, aAccademia University Press, Torino July 2011, ISBN 9788897523031
- 9 GOLA M.M. ed., ALFA-Mirror Project , "Development of a reference model for comparison and recognition of engineering programmes, Final Report July 2011", aAccademia University press, Torino July 2011, ISBN 978-88-97523-04-8
- 10 GOLA M., cap. pag. 81-99, in DAL LOCKDOWN LE SFIDE ALL'UNIVERSITÀ, Autori Vari, 2020 Eurilink University Press S.r.l., ISBN: 978 88 85622 98 2

Papers and articles on Quality Assurance

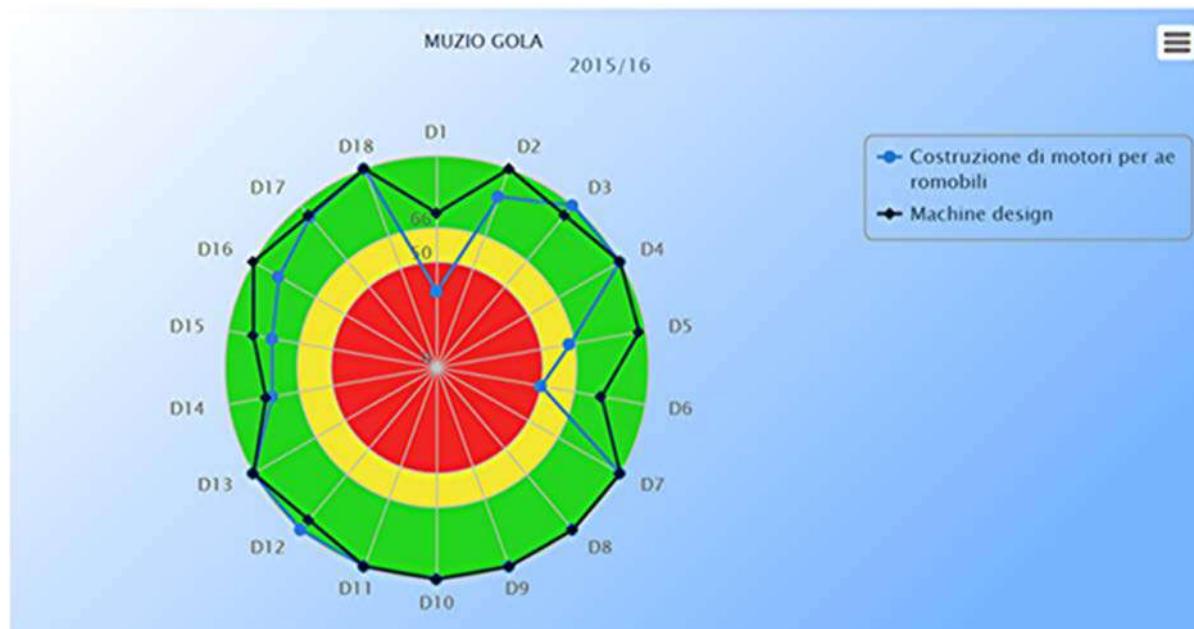
- 11 GOLA M.M., "The Trend and The Methods of Quality Assessment at the Politecnico di Torino", 13th General Conference of IMHE Member Institutions, Setting New Priorities For Higher Education Management, Paris, Sept. 1996
- 12 GOLA M.M., "Evaluation Of Teaching Quality At Politecnico Di Torino", SEFI/CDWG Seminar 1997: A Tool to Improve the Learning Process. Evaluation and Quality Development in Engineering Education, june 18-21 1997 - Grimstad, Norway [link](#)
- 13 GOLA M.M., "Quality Assessment, Quality Assurance and the students", invited keynote lecture, 1998 IBS (International BEST Symposium), Helsinki, Febr. 1998
- 14 GOLA M.M., "La Didattica Universitaria e la sua Valutazione - Introduzione al corso di formazione della docenza: Strumenti e Metodologie per il Formatore" CPD - COREP, Politecnico di Torino, april - may 1998
- 15 GOLA M.M., "Quality Assessment and Quality Assurance", chapter II of Working Group n.2 , State-of-the-art Report "*Quality and Recognition in Engineering Education*", H3E - Higher Engineering Education for Europe, july 1998
- 16 GOLA M.M., "La Valutazione della Didattica: realtà e utopia", Conv. Autonomia e valutazione: verso un sistema di valutazione della didattica negli Atenei, Siena, Certosa di Pontignano, Nov. 1998
- 17 GOLA M.M., "Modelli di valutazione dei corsi di studio universitari", in 'Valutazione della didattica con i sistemi computer assisted', Civardi, Fabbri ed., CLEUP Milano, dec. 2000, pp. 249-258
- 18 GOLA M.M., "La valutazione nel sistema universitario", in Didattica Universitaria Teorie e Pratiche, Atti III Biennale Internazionale sulla Didattica Universitaria, Padova 25-27 ottobre 2000
- 19 GOLA M. M.: "Valutazione, accreditamento dei servizi formativi: il caso del sistema universitario", Università e Scuola, CONCURED, FORUM, Ed. Univ. Udinese, n. 2/R – 2001
- 20 GOLA M. M.: "Università della Calabria / Dalla raccolta dei dati agli interventi migliorativi, Anno XXIV, Numero 90, Dic. 2003
- 21 GOLA, M. M. , Premises to Accreditation : A Minimum Set of Accreditation Requirements in Accreditation Models in Higher Education Experiences and Perspectives in ENQA, Workshops Reports 3, European Network for Quality Assurance in Higher Education, Helsinki, 2003, pp.25-31 [link](#)
- 22 GOLA M. M., TOTOLO A.: "Piemonte - Parametri comuni e specificità universitarie ", Anno XXV, Num. 92, Giugno 2004
- 23 GOLA. M. M.: "Valutazione e Accreditamento dei Corsi di Studio Universitari", Accademia Nazionale dei Lincei, Seminario internazionale LA VALUTAZIONE DELL'ATTIVITÀ UNIVERSITARIA: STRUTTURE E RICERCA, Roma 17 MARZO 2005
- 24 GOLA M. M.: "Quality assurance in engineering education on a national and European scale", European Journal of Engineering Education, Vol. 30, No. 4, December 2005, 423–430, DOI: 10.1080/03043790500213094 [link](#)
- 25 DEL CORSO D., GOLA M.M., REBAUDENGO M., "Curricula design flow with embedded accreditation", EAEEIE Annual Conference, 2009, 22-24 June 2009 Page(s):1 – 5 , Digital Object Identifier 10.1109/EAEEIE.2009.5335480
- 26 GOLA M.M., "The POLITICO-Q.A. FRAMEWORK : a possible genetic modification of internal Quality Assurance?", EUA 4th European Quality Assurance Forum, Copenhagen 19 – 21 November 2009

- 27 GOLA M.M., "Quality Assurance of education at POLITO: why, for whom, how", Colloque International : « L'évaluation de la qualité et de l'équité des systèmes d'éducation et de formation : quels enjeux pour la recherche et l'action ? », Instance Nationale d'Évaluation du système d'Éducation et de Formation, Rabat, Maroc, april 20-21 2010; <http://www.csefrs.ma/pdf/Actesducolloque-SymposiumProceedings.pdf>
- 28 GOLA M.M., "Con il contributo di molti - POLITO verso l'assicurazione della qualità", Atti Convegno "L'Assicurazione Interna della Qualità dei Corsi di Studio - cogliere l'ortica: quattro anni dopo" – Torino, 16 dicembre 2010
- 29 GOLA M.M., "Assicurare la qualità della formazione: perché, per chi, come", Scuola Democratica, n. 5, giugno 2012, ISSN 1129-731X, ISBN 978-88-6250-401-0, pp. 173-178 [link](#)
- 30 GOLA M. M., " L'importanza di valutare anche la didattica", capitolo in volume "I Voti all'Università – la valutazione della qualità della ricerca in Italia", Il Corriere della Sera, ISSN 1828-55230, pp. 39-53
- 31 Gola M., "Accreditamento periodico_le linee guida e i criteri di giudizio" – Presentazione per ANVUR, Ferrara 2013 10 24 [link](#)
- 32 GOLA M. M., "Contributo di Muzio Gola al dibattito sul rapporto promosso dalla Fondazione Agnelli e curato da Matteo Turri, Università di Milano: *Calimero all'università: valutazione della didattica e sistema AVA*", Torino 2.10.14, <http://www.fga.it/interventi-e-analisi/tutti-gli-interventi/detttaglio/article/la-valutazione-della-didattica-all'universita-presentazione-del-rapporto-a-torino-512.html#.VWBVf0Y9n-Y>
- 33 GOLA M. M., "The new ANVUR accreditation and QA framework, ongoing experience and caveats for its effective implementation", Actes du Colloque International "L'Evaluation en Education et Formation - Approches, enjeux et défis", Rabat, (Maroc) 22-23 Octobre 2015
- 34 GOLA M: M; GUGLIERI G; CHIOCCHIA G; "National Qualification Frameworks for Aerospace Engineering Education in Western Europe and in the Russian Federation: the Airqual Project 2009-11", PROCEEDINGS OF MINI-SYMPOSIUM AIDAA 2017, AIDAA XXIV International Conference 18-22 September 2017, Palermo – Enna, Italy
- 33-bis idem, in: AEROTECNICA, MISSILI E SPAZIO. - ISSN 0365-7442. - STAMPA. - 96 - Proceedings of Mini-Symposium "Internationalization: the Gateway to Implement Academic Resource for the Aviation Sector":2 (2017), pp. 108-115 [link](#)
- 35 GOLA M., capitolo contributo al volume " DAL LOCKDOWN, LE SFIDE ALL'UNIVERSITÀ", pp. 81-99, Eurilink University Press Roma, www.eurilink.it - ufficiostampa@eurilink.it, ISBN: 978 88 85622 98 2, 2020, [link](#)
- 36 GOLA M.M., review of the book: Berthiaume, D., Bosson, M., Elston, V. e Skakni, I. (2020), L'expérience doctorale: état des lieux et propositions de structurations, "Scuola democratica", 2/2021, pp. 401-403, DOI: 10.12828/101877 [link](#)

Organization and teaching in training courses

- Co.In.Fo. Module 1 - Definition and management of quality assurance at university level and of study courses in line with the AVA approach, Permanent School of Administrative Managers of Autonomous Management Centers, Rome 28 November 2019
- MDQNext – In-House courses:
 - Università degli Studi dell'Insubria 24 January2019,
 - Università degli Studi di Bergamo 14-15 may 2019,
 - Università degli Studi di Firenze 11-12 June 2019
- MDQNext - (Re) Design in the quality of Degree Programs: rules, documents and tools
 - Università degli Studi di Pisa 3 e 4 May 2018,
 - Università degli Studi di Parma 26-26 June 2018,
 - Università degli Studi di Napoli Federico, 10 e 11 July 2018,
 - Università degli Studi di Pavia 4 e 5 October 2018
- Assignments from Universities:
 - 2022.04 - Università Politecnica delle Marche – Teacher and staff training on issues of "Scheda SUA-CdS: farne uno strumento efficace"

- 2021.10.21 & 27, Università del Piemonte Orientale: Staff training on the “Scheda di Monitoraggio Annuale dei Corsi di Studio (SMA)”
- 2018 (12 January, 11 April, 14 December), Università degli Studi di Parma - Teacher and staff training on issues of the Quality Assurance Management System in the Degree Courses of UNIPR
- 2017 Oct.2/4, Università Ca' Foscari – Venezia - Teacher training on Cyclical Review - 2/4 October 2017

APPENDIX 1 - STUDENT OPINION RADAR DIAGRAM

1. I carico di studio complessivo degli insegnamenti previsti nel periodo didattico è accettabile?
2. L'orario degli insegnamenti del periodo didattico è ben organizzato?
3. Le regole d'esame, gli obiettivi e il programma dell'insegnamento sono stati resi noti in modo chiaro?
4. L'insegnamento è stato svolto in maniera coerente con quanto dichiarato sul portale della didattica?
5. Le conoscenze preliminari da me possedute sono risultate sufficienti per la comprensione della materia?
6. Il carico di studio richiesto da questo insegnamento è proporzionale ai crediti assegnati?
7. Il materiale didattico, indicato o fornito, è adeguato per lo studio della materia?
8. Le attività didattiche integrative (esercitazioni, laboratori, seminari, visite, ecc.) sono utili per l'apprendimento della materia?
9. Il docente rispetta gli orari di svolgimento dell'attività didattica?
10. Il docente è disponibile a fornire chiarimenti e spiegazioni?
11. Il docente interagisce efficacemente con gli studenti, stimolando l'interesse verso la materia?
12. Il docente espone gli argomenti in modo chiaro?
13. Ritieni che l'azione di coordinamento svolta dal docente titolare del corso sull'attività didattica del collaboratore sia stata efficace?
14. Le aule in cui si svolgono le lezioni sono adeguate?
15. I locali e le attrezzature per le attività didattiche integrate sono adeguati?
16. Sono interessato agli argomenti di questo insegnamento? (Indipendentemente da come è stato svolto)
17. Sono soddisfatto di come è stato svolto questo insegnamento?
18. Al fine dell'apprendimento, la frequenza alle attività didattiche è utile?

1. Is the overall study load of the courses foreseen in the teaching period acceptable?
2. Is the teaching schedule of the teaching period well organized?
3. Are the exam rules, objectives and teaching schedule clearly disclosed?
4. Was the teaching carried out in a manner consistent with what was declared on the teaching portal?
5. Was the preliminary knowledge I possessed sufficient for understanding the subject?
6. Is the study load required by this course proportionate to the credits assigned?
7. Is the teaching material, indicated or provided, adequate for the study of the subject?
8. Are the supplementary educational activities (exercises, workshops, seminars, visits, etc.) useful for learning the subject?
9. Does the teacher respect the teaching hours?
10. Is the teacher available to provide clarifications and explanations?
11. Does the teacher interact effectively with the students, stimulating interest in the subject?
12. Does the teacher explain the arguments clearly?
13. Do you think that the coordination action carried out by the teacher in charge of the course on the collaborator's didactic activity was effective?
14. Are the classrooms in which the lessons take place adequate?
15. Are the premises and equipment for supplementary educational activities adequate?
16. Am I interested in the topics of this teaching? (Regardless of how it was done)
17. Am I satisfied with how this teaching was carried out?
18. For the purpose of learning, is attendance at educational activities useful?

APPENDIX 2 - STUDENT COMMENTS

CPD - Politecnico di Torino

Commenti espressi dagli studenti

Docente: GOLA MUZIO

ANNO ACCADEMICO: 2015/16

Insegnamento: 03MCHQD - Machine design

(Corso Di Laurea Magistrale In Ingegneria Meccanica (Mechanical Engineering) - Torino)

- Muzio: simply the best!
- Dear Professor for me it was an honor and a privilege to have been your student. I hope for Italy and for universities that professors like you begin to guide the formation of this country and the challenges that stay ahead. However you still have a lot to say to us young engineers. I also wanted to say that your slides are widely used by your pupils; for example, a friend of mine who is currently working at Ferrari (field of transmission), and that was your student, he often uses the slide. The course was almost perfect; I only advise you to deal with the part on the fracture more calmly. Thanks for everything; I wish you all the best. God bless you.
- It is a very nice course, very nicely planned and if executed well by the student, it could help him/her in the professional career. The course information and the materials were very helpful and the references can be very beneficial in case we would like to study the course more comprehensively. Thank you Professor!!
- very good class
- TOO MANY TUTORIALS. YOU CAN NOT IMAGINE HOW MUCH TIME THEY NEED TO BE SOLVED. WE DO NOT HAVE ENOUGH TIME BECAUSE WE HAVE OTHER SUBJECTS IN THE SEMESTER.
- Per quanto riguarda le lezioni del prof. Gola, ho apprezzato molto i numerosi riferimenti alle esperienze professionali. Nel contesto del grigiore generale del Poli la parlantina, le belle cravatte/camicie e, soprattutto, l'umorismo British del prof rendono le lezioni più gradevoli e facili da seguire. D'altro canto avrei preferito che ci fossimo soffermati meno su alcune dimostrazioni lunghe e teoriche per concentrarci su altri aspetti più pratici. Per quanto riguarda le esercitazioni, invece, il problema principale è stato il rapporto numerico docenti/studenti. La sola prof Berruti (che è stata sempre disponibile, trattenendosi a volte anche oltre gli orari limite) doveva rispondere alle domande di una sessantina di studenti. Probabilmente per il prossimo anno sarebbe utile aggiungere degli assistenti/borsisti.
- le slides le trovo troppo confusionarie - il corso è troppo teorico, si dovrebbe snellire un po' il programma , troppi argomenti da ricordare (ma tanto so che questo non sarà fatto, in Italia funziona così).
- I frequenti collegamenti tra teoria e esperienza lavorativa fatti dal Prof. Gola a lezione sono stati molto utili e hanno rappresentato un grosso valore aggiunto. La Prof.ssa Berruti risponde sempre in maniera chiara e completa alle domande fatte durante l'esercitazione. In aula 3D è impossibile leggere alla lavagna a meno che non si è seduti nelle prime file e spesso il microfono non funzionava rendendo difficile l'ascolto della lezione.

CPD - Politecnico di Torino
 Commenti espressi dagli studenti
 Docente: GO LA MUZIO
 ANNO ACCADEMICO: 2015/16
 Insegnamento: 01LKCMT - Costruzione di motori per aeromobili
 (Corso Di Laurea Magistrale In Ingegneria Aerospaziale - Torino)

- Cercherò di evidenziare alcuni punti nel seguito: - Il corso è uno dei più belli e interessanti di tutta la mia carriera accademica. Sicuramente non è leggero ma l'accento sul metodo è quello che serve davvero. Un peccato il non essere riusciti a finire gli argomenti. - Sarebbe interessante affiancare alle esercitazioni (anche in orario extrascolastico) visite, laboratori, e magari qualche simulazione. Con ciò non intendo togliere spazio alla " vecchia scuola" che anzi trovo fondamentale. -Togliere un po' di spazio alle esercitazioni (svolgere gli esercizi in aula non favorisce un buon rendimento, spesso si perde del tempo) in favore delle lezioni\approfondimenti Visto il suo ruolo, anche se forse inappropriato in questa sede, le chiedo: - Perché non inserire un esame di costruzione di macchine anche alla triennale di aerospaziale? - Il questionario ha una valenza importante, ma spesso gli alunni temono la ritorsione del professore durante l'esame - Per assicurarsi il 100% di risposta al questionario perché non obbligare in sede di prenotazione all'esame la compilazione dello stesso ?
- La difficoltà che si nota nel seguire il professore durante le spiegazioni della teoria potrebbe essere alleviata se si rendesse lo studente un po' più partecipe alla lezione (più o meno come è stato fatto per le lezioni sugli ingranaggi); inoltre, nell'unica occasione in cui è capitato di fare prima un'esercitazione su un argomento e solo successivamente assistere alla spiegazione teorica dello stesso, personalmente ho notato come risultasse più semplice riuscire a seguire tale spiegazione: paradossalmente, quindi, forse converrebbe fare sempre in questo modo, perché magari la mente di quello che in futuro sarà un ingegnere riesce a capire meglio alcuni concetti se ne conosce l'applicazione pratica, e questo è tanto più vero quanto più il concetto è ostico e richiede lo sforzo di "immaginare qualcosa chiudendo gli occhi" (come giustamente il professore ci ha spesso consigliato di fare).
- Come lei stesso ha detto, credo che lei sia un "rompicatole" e all'esame mi sa che saranno dolori. Tuttavia la mia opinione è tutt'altro che negativa, anzi. Di tutti i professori e assistenti che ho avuto (decine e decine e decine), lei è uno dei pochissimi (avanzerebbero le dita di una mano per contarli) che si è preso la briga di mettere a disposizione materiale ben curato nei minimi dettagli sia graficamente, sia nei contenuti. Per questo mille grazie non bastano. Purtroppo, gli argomenti trattati nel suo corso non mi affascinano molto, anzi ad essere onesti, nonostante io capisca perfettamente l'importanza e la criticità di ognuno di loro, un po' mi annoiano (ahimè, de gustibus non disputandum est). Questo tuttavia le fa guadagnare altri punti: nonostante la mia poca passione per tali argomenti, lei li ha saputi rendere piacevoli e ho seguito le sue lezioni praticamente fino alla fine con buon interesse (con un altro probabilmente avrei pensato al suicidio). Per concludere, aggiungo che ho apprezzato molto i cenni storici e gli aneddoti che ha raccontato e soprattutto che il suo modo d'esporre, oltre ad essere chiaro, è semplicemente fantastico. Le auguro di campare almeno altri cent'anni (nonostante la sua autoironia un po' pessimista sull'argomento età) e di poter continuare ad insegnare ancora a lungo visto che di professori ce ne sono tanti, ma di INSEGNANTI come lei pochissimi.
- Qualità dell'insegnamento ottima ed esposizione dei concetti presentati a lezione chiarissima. Ho apprezzato particolarmente la capacità di trasmettere agli studenti, me compreso, la passione per ciò che si fa, unita ad un modo di esporre gli argomenti a mio parere unico, grazie al quale la lezione diventa una piacevole occasione per apprendere - aspetto non sempre così scontato -. Riesce ad unire grande professionalità a modi piacevolissimi e molto precisi nell'esporre argomenti spesso ostici. Materiale didattico eccellente - difficilmente mi sono imbattuto in materiale così 'maniacalmente' preciso. Se questa può rappresentare un'occasione in cui uno studente 'valuta' un professore: promosso a pieni voti! Di Professori ve ne sono tanti; più raro è incontrare Insegnanti.
- Partendo dal fatto che si tratta più di un corso di laurea a parte che di un esame, per la cura con cui vengono trattati gli argomenti, per la mole di nozioni da imparare e per quella che temo sarà la severità con cui verremo valutati all'esame, devo dire che probabilmente se tutti i corsi fossero oggetto di interesse e di continuo perfezionamento da parte del docente stesso (e il docente avesse le capacità straordinarie che ha Lei), la nostra sarebbe realmente una delle prime università in Europa. Devo dire che però ho notato come sia molto faticoso seguire e capire la teoria senza prima aver fatto le esercitazioni, anche se parrebbe illogico il contrario. Un plauso a Botto, il cui apporto è stato determinante a mio avviso nel farci comprendere cosa stesse dietro la teoria.

APPENDIX 3 – PROJECTS & FUNDING

| | |
|--|-------------------------|
| Research framed in the AERMEC laboratory - altogether over | € 4 milion euros |
| Partnerships with aerospace companies | |
| 2013-2014 (AVIO) Prove di usura Nuove Leghe per Z-Notch | € 11.250,00 |
| 2013-2014 (AVIO) Prove di usura T800 per GE90 | € 50.700,00 |
| 2013-2014 (Mitsubishi-Hitachi) Research on friction damping and friction model at contact surfaces of turbine blades | € 38.000,00 |
| 2012-2014 (GENERAL ELECTRIC - NUOVO PIGNONE) Estensione dei codici di calcolo per l'analisi dinamica di pale per turbine a vapore (pale HS e stadio di controllo) | € 46.000,00 |
| 2012-2014 (GENERAL ELECTRIC - NUOVO PIGNONE) Prove sperimentali di caratterizzazione usura ai tettucci pale di bassa pressione HS per turbine a vapore | € 50.000,00 |
| 2012-2013 (GENERAL ELECTRIC - NUOVO PIGNONE) Stadio di Controllo – Test statico con due pale e diverse geometrie di smorzatori – Convalida numerico-sperimentale | € 114.000,00 |
| 2011 (GENERAL ELECTRIC - NUOVO PIGNONE) Simulazione analitica di una eccitante magnetica per prove di risposta dinamica su pale di turbina a vapore | € 10.000,00 |
| 2010-2012 (GENERAL ELECTRIC - NUOVO PIGNONE) Indagini numeriche e sperimentali su pale di bassa pressione HS per turbine a vapore | € 178.000,00 |
| 2009-2011 (AVIO) Partnership -Sviluppo di metodologie avanzate per la previsione e la verifica sperimentale del comportamento all'usura di rivestimenti superficiali per applicazioni turbina di nuova generazione | € - |
| 2008-2012 (AVIO) Studio e sviluppo di modelli di calcolo e progetto di sistemi smorzanti ad anello (damper ring) per applicazioni aeronautiche | € 104.000,00 |
| 2009-2011 2009-2011 (AVIO) Partnership -Sviluppo di metodologie avanzate per la previsione e la verifica sperimentale del comportamento all'usura di rivestimenti superficiali per applicazioni turbina di nuova generazione | € 44.000,00 |
| 2007-2010 (AVIO) Prove di fatica a ciclo combinato su provette di cmsx4 all'interno del programma di ricerca europeo Premecy | € 60.000,00 |
| 2007-2007 (AVIO) Studio di fenomeni dinamici del disco palettato di turbina in presenza di effetti asimmetrici (mistuning) – LAQ AERMEC | € 50.000,00 |
| 2007-2008 (AVIO) Indagine tribologica ad alta temperatura per la valutazione dei parametri di smorzamento e relativo effetto dell'usura per materiali di uso aeronautico | € 80.000,00 |
| 2005-2006 (AVIO) Revisione del progetto degli smorzatori sottopalata del primo stadio di turbina lms 100 ipt | € 50.000,00 |
| 2004 (AVIO) Valutazione sperimentale e numerica dello smorzamento dovuto agli smorzatori sotto pala nel primo stadio di turbina lms100 ipt | € 43.500,00 |
| 2001-2004 (AVIO) Studio dell'ottimizzazione del comportamento a fatica e vibrazionale di componenti critici delle turbomacchine | € 248.000,00 |
| 2001 (SKF) Progettazione di dispositivi di taratura e esecuzione di misure diffratometriche per determinazione dello stato tensionale residuo in anelli di cuscinetti | € 7.500,00 |
| PRIN (Research Projects of National Interest) | |
| 2007-2009 Sviluppo e convalida di modelli per il mistuning indotto dagli smorzatori | € 55.000,00 |
| 2002-2004 Determinazione dei parametri di attrito in contatti vibranti per smorzatori passivi di pale di turbine avio: sperimentazione su banchi dedicati, modelli del contatto e degli smorzatori sottopalata, convalida numerica della risposta dinamica di sistemi palettati in condizioni controllate di laboratorio | € 201.000,00 |
| European research projects | |
| 2012-2015 UPGRADE (Marie Curie) - complex dynamic interactions of nonlinear, multistage and localization phenomena in turbine engines: development and validation of efficient and accurate modeling techniques | € 307.000,00 |
| 2008-2012 FUTURE Flutter-Free Turbo machinery Blades - European Union 7th FP-UE (AVIO) | € 158.000,00 |
| 2008-2011 DREAM - Validation of radical engine architecture systems | € 110.000,00 |
| 2005-2009 VERDI - Virtual engineering for robust manufacturing with design integration | € 133.000,00 |
| 2005-2009 VITAL - Environmentally friendly aero engine | € 158.000,00 |

Research Projects on Regional and National Structural Funds

| | |
|--|--------------|
| 2014-2017, CLUSTER - Greening the propulsion | € 400.000,00 |
| 2012 - ... GREAT 2020 - fase 2 - Green engine for air traffic | € 300.000,00 |
| 2009 – 2011 GREAT 2020 - fase 1 - Green engine for air traffic | € 458.000,00 |
| 2007-2010 CORALE - Development of an integrated simulation system for the collaborative design of a low environment impact aeroengine | € 300.000,00 |
| 2005-2007 E10 - Modelli e criteri di progetto per mistuning nelle turbomacchine | € 65.000,00 |
| Varie | |
| 2015 - ... (Johnson Electric Asti s.r.l.) Reliability analysis methods of PCBA (Printed Circuit Board Assembly) for fan brushless motors | € 33.000,00 |
| 2013-2014 (GATE s.r.l. - Johnson Electric) Metodologie di progettazione e sperimentazione di schede elettroniche di motori elettrici per ventole e sistema ventola convogliatore | € 56.000,00 |
| 2012-2013 (GATE s.r.l. - Johnson Electric) Metodologie di prova e analisi di fatica termica e meccanica per schede elettroniche di controllo di elettroventilatori | € 25.000,00 |
| 2008, (LISA-POLAND) New technologies for sheet metal stamping | € 3.500,00 |
| 2007-2008 (RINALDI) Determinazione dell'abbattimento termico di un riparo calore realizzato in lamiera a più strati | € 7.000,00 |
| 2005-2006 (ALSTOM Ferroviaria) Supporto all'analisi dei risultati dei modelli predittivi di cinetosi e della loro correlazione con le prove sperimentali | € 60.000,00 |
| 2000 (IGNITOR) Progetto del sistema per il riscaldamento a radiofrequenza del plasma nell'intorno delle frequenze di ciclotrone ionico della macchina ignitor | € 50.000,00 |

APPENDIX 4 – THE AERMEC LAB.

UNI TURIN

DIPARTIMENTO DI INGEGNERIA MECCANICA E AEROSPAZIALE

GRUPPO DI RICERCA AER-MEC
(AERoMEChanics of turbomachinery)

Progettazione strutturale in campo dinamico di turbomacchine

CHI SIAMO

| Eredità dal 1917 | I docenti, group leaders | Ricercatori, studenti nel posse e studenti di dottorato |
|------------------|--|--|
| | Stefano Zuccoli Daniela Botti Teresa Di Pasquale Christian Fratino Giuseppe Mannoia Zhenyu Zhou Fabiano Almered Emanuele Istrailoglu Shamsi Ghani Hamed Olfati Valeria Mito Simone D'Imparato Silvana Coletti Gianfranco Sartori Federico Gennarelli Enrico Colantoni | Riccardo Sartori Stefano Zuccoli Daniela Botti Teresa Di Pasquale Christian Fratino Giuseppe Mannoia Zhenyu Zhou Fabiano Almered Emanuele Istrailoglu Shamsi Ghani Hamed Olfati Valeria Mito Simone D'Imparato Silvana Coletti Gianfranco Sartori Federico Gennarelli Enrico Colantoni |

L'AMBITO DELLA RICERCA

Le turbomacchine per aeromobili Le turbomacchine per produrre energia

Turbolun - General Electric

Ansaldo Energia

GLI OBIETTIVI

Migliorare il progetto strutturale delle turbomacchine per aumentarne la sicurezza, ridurne i consumi e l'impatto ambientale

I PRINCIPALI PARTNER INDUSTRIALI

Avio Aero A GE Aviation Business

Ansaldi Energia

GE Oil & Gas Nuovo Pignone spa

Europei

H2020 EUROPEAN PROGRAM

- Clean Aviation - AMBER - InnoVAtive deMonstrator for hyBrid-Electric Regional Application
- BRAVO - establishing Blend Repair limit of blisks from A perspective of Vibration amplification
- EXPERTISE - models, Experiments and high PERformance computing for Turbine mechanical Integrity and Structural dynamics in Europe

FP7 EUROPEAN PROGRAMS

- FUTURE - Flutter Free Turbomachinery Blades
- DREAM - valDation of Radical Engine Architecture systems

FP6 EUROPEAN PROGRAMS

- VITAL - EnVironmentAlly Friendly Aero Engine
- VERDI - Virtual engineering for robust manufacturing with design integration

I PRINCIPALI PROGETTI

Nazionali

- PNRR - Centro nazionale High Performance Computing
- RAEE/R1-R2 - Recupero di materia da RAEE/R1-R2
- CLUSTER GREENING THE PROPULSION
- GREAT 2020 - Green Engine for Air Traffic 2020
- CORALE - Development of an integrated simulation system for the collaborative design of a low environment impact aeroengine

LA NOTTE DEI RICERCATORI 2022

TURIN