

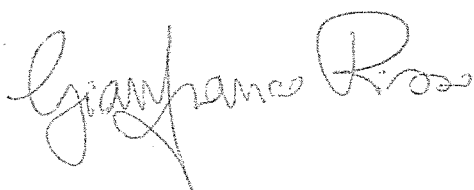
Curriculum Vitae

Si allega il Curriculum Vitae di Gianfranco Rizzo.

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In fede

Gianfranco Rizzo



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Gianfranco Rizzo

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 **Gianfranco Rizzo.**

laurea
degree "cum laude"
in Mechanical
Engineering at
University of
Naples. He worked
at FIAT in Turin, at
Research National
Council of Italy, at

University of Naples and at University of Salerno (since 1992),
where he is Full Professor in Mechanical Engineering and Chair
of the Mechanical Engineering Teaching Council (2011-).

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 Home page

Vice-President of SAE Naples Group (2001-2005), Chair of the IFAC TC "Automotive Control" (2008-).

Associate Editor of Control Engineering Practice. Congress Associate Editor of World Congress IFAC2011. Member of Advisory Board of International Journal of Energy Optimization and Engineering (IJEEO). Member of Editorial Board of International Journal of Powertrains. Member of Detao Masters Academy, China. Member of International Advisory Board of Combustion Engine Research Center (CERC), Chalmers University of Technology (Goteborg) (2011, 2012).

Author of over 150 papers on: Modeling and Control of Automotive Engines, Hybrid and Solar Vehicles, Modeling and Optimization of Conventional and Hybrid Power Plants, Renewable Energy, Cogeneration, Turbomachines, Optimal Management of Bio-Economic Systems. Detailed CV available here.

Further details on the eProLab website about Research, Awards and Offices, Patents.

Hobbies: accordeonist and responsible of Musicateneo. Given concerts with musical groups of the University of Salerno. LP/CD: Teatrogruppo di Salerno - Musica popolare del Salernitano, Take the U Train, Next Station, Paesaggi Diversi, Medieval Zone (with Jenny Sorrenti).

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Gianfranco Rizzo.

Nato a [redacted]. Laurea con lode in Ingegneria Meccanica presso l'Università di Napoli nel 1975. Ha lavorato presso FIAT Auto in Torino, Istituto Motori CNR di Napoli, Università di Napoli ed Università di Salerno (dal 1992), dove è professore ordinario di Macchine e Sistemi Energetici presso la Facoltà di Ingegneria e Presidente dell' Area Didattica in Ingegneria Meccanica (2011-).

Vice-Presidente del SAE Naples Group (2001-2005), Chair della Technical Committee "Automotive Control" dell'IFAC (2008-). Associate Editor della rivista Control Engineering Practice. Congress Associate Editor del World Congress IFAC2011. Membro dell'Advisory Board dell'International Journal of Energy Optimization and Engineering (IJEEO). Membro dell'Editorial Board dell' International Journal of Powertrains. Membro della Detao Masters Academy, China. Membro della International Advisory Board of Combustion Engine Research Center (CERC), Chalmers University of Technology (Goteborg) (2011, 2012). Responsabile del Piano Energetico Comunale di Salerno.

Autore di oltre 150 articoli su: Modellistica, sperimentazione e controllo dei motori a combustione interna, Veicoli ibridi ed ibrido-solari, Modellistica, ottimizzazione e gestione di sistemi energetici, Fonti di energia rinnovabile, Cogenerazione, Turbomacchine, Gestione ottimale di sistemi bio-economici.

Autore di un brevetto per trasformare un autoveicolo convenzionale in ibrido solare. CV dettagliato a questo link.

Hobby: fisarmonicista e presidente della Associazione Musicateneo ONLUS. Concerti con i gruppi musicali di Ateneo. LP/CD: Teatrogruppo di Salerno - Musica popolare del Salernitano, Take the U Train, Next Station, Paesaggi Diversi, Medieval Zone (con Jenny Sorrenti).

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Books

- 2012** ➤ G Rizzo (2012) **Il caffè di Turing** Edited by:ilmiolibro.it - disponibile sul catalogo laFeltrinelli. isbn:978-88-91026-12-5 
- 2010** ➤ G Rizzo (2010) **Il sole con le ruote - Dieci domande sull'uso dell'energia solare per le auto** Edited by:ilmiolibro.it - disponibile sul catalogo laFeltrinelli. isbn:978-88-91000-65-1 

Journal articles

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- 2011** ➤ M Sorrentino, G Rizzo, I Arsie (2011) **Analysis of a rule-based control strategy for on-board energy management of series hybrid vehicles** *Control Engineering Practice* 19:: ISSN 0967-0661. 1433-1441 December
- 2010** ➤ M Sorrentino, I Arsie, R Di Martino, G Rizzo (2010) **On the Use of Genetic Algorithm to Optimize the On-board Energy Management of a Hybrid Solar Vehicle** *Oil & Gas Science and Technology - Revue de l'IFP* 65: 1. 133-143 Jan-Feb DOI PMID 
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- 2004** ➤ I Arsie, C Pianese, G Rizzo (2004) **An Integrated System of Models for Performance and Emissions in SI Engines: Development and Identification** *SAE 2003 Transactions - Journal of Engines (SAE Paper 2003-01-1052)* 112-3:
- 2003** ➤ I Arsie, V Cioffi, C Pianese, G Rizzo (2003) **An Adaptive Estimator of Fuel Film Dynamics in the Intake Port of a Spark Ignition Engine.** *CONTROL ENGINEERING PRACTICE, ISSN:0967-0661.* 11: 3. 303-309
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Based Selection of Neural Network Training Data for S.I. Engine Mapping *SAE 2001 Transactions - Journal of Engines (SAE Paper 2001-01-0561)* 110-3:

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- 1997** ➤ I Arsie, M Gambino, C Pianese, G Rizzo (1997) **Development and Validation of Hierarchical Models for the Design of Engine Control Strategies,** *"Meccanica", Kluwer Academic Publisher.* 32: 397-408
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Conference papers

2012

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- M Sorrentino, L Sorrentino, G Rizzo (2012) **ANALYSIS OF VEHICLE ELECTRIFICATION IMPACT ON GRID INFRASTRUCTURE AND ROAD-TRAFFIC GREENHOUSE EMISSIONS** In: *ICAE2012, the Fourth International Conference on Applied Energy, Suzhou (China), July 5-8, 2012*
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- G Rizzo (2012) **A Model for Simulation and Optimal Design of a Solar Heating System with Seasonal Storage** In: *Proc. of ECOS 2012 Conference, Perugia (Italy), June 26-29, 2012*

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- V Marano, G Rizzo, F A Tiano (2011) **Application of Dynamic Programming to the Optimal Management of a Hybrid Power Plant with Wind Turbines, Photovoltaic Panels and Compressed Air Energy Storage** In: *ICAE 2011 - INTERNATIONAL CONFERENCE ON APPLIED ENERGY, PERUGIA CENTRO CONGRESSI, PERUGIA, ITALY MAY 16, 2011 – MAY 18, 2011*
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- G Coraggio, G Rizzo, C Pisanti, A Senatore (2011) **Design and Control of a Mobile Solar Roof for a Solar Vehicle** In: *Proceedings of ICE2011 Conference, September 12-15, 2011, Capri, Italy* SAE International - 2011-24-0072

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- ✦ F Dentale, E Pugliese Carratelli, G Rizzo, I Arsie, S D Russo (2010) **WECPOS - Wave Energy Coastal Protection Oscillating System. A numerical assessment** In: European Geosciences Union General Assembly, Vienna, Austria, 02-07 May, 2010
- ✦ I Arsie, M Cacciato, G Petrone G Rizzo, A Senatore, M Sorrentino, G Spagnuolo (2010) **Sviluppo di un prototipo di veicolo ibrido solare** In: Atti del 1' Congresso del Coordinamento della Meccanica Italiana, Palermo, 20-22 Giugno 2010 
- ✦ G Coraggio, C Pisanti, G Rizzo, A Senatore (2010) **Model Based Control of a Moving Solar Roof for a Solar Vehicle** In: 10th International Symposium on Advanced Vehicle Control AVEC10, August 22-26 2010, Loughborough, UK Loughborough University Department of Aeronautical & Automotive Engineering & Transport Studies- ISBN 9780904947656 
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- ✦ G Rizzo, M Sorrentino, I Arsie, G Coraggio, C Pisanti (2009) **METODI EURISTICI PER LA GESTIONE ENERGETICA OTTIMALE A BORDO DI UN VEICOLO IBRIDO SOLARE** In: Atti del 64' Congresso Nazionale ATI 
- ✦ M Sorrentino, G Rizzo, I Arsie (2009) **Analysis of a Rule-Based Control Strategy for On-Board Energy Management of Hybrid Solar Vehicles** In: ECosm'09 - IFAC Workshop on Engine and Powertrain Control, Simulation and Modeling, Nov.30-Dec.2, 2009, IFP, Rueil-Malmaison, France 
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- G Adinolfi, I Arsie, R Di Martino, A Giustiniani, G Petrone, G Rizzo, M Sorrentino (2008) **A PROTOTYPE OF HYBRID SOLAR VEHICLE: SIMULATIONS AND ON-BOARD MEASUREMENTS** *In: Proc.of Advanced Vehicle Control Symposium AVEC 2008, October 6-9, 2008, Kobe (Japan)* 917-922 Society of Automotive Engineers of Japan - ISBN: 978-4-904056-21-9
- I Arsie, R Di Martino, G Rizzo, M Sorrentino (2008) **ON THE USE OF GENETIC ALGORITHM TO OPTIMIZE THE ON-BOARD ENERGY MANAGEMENT OF A HYBRID SOLAR VEHICLE** *In: Proceedings of "Les Rencontres Scientifiques de l'IFP - Advances in Hybrid Powertrains", 25-26 November 2008, IFP/Rueil-Malmaison, France*
- I Arsie, S Di_Iorio, C Pianese, G Rizzo, M Sorrentino (2008) **RECURRENT NEURAL NETWORKS FOR AIR-FUEL RATIO ESTIMATION AND CONTROL IN SPARK-IGNITED ENGINES,** *In: IFAC World Congress, Seoul (Korea), July 6-11, 2008. Edited by:Elsevier - ISBN 978-1-1234-7890. 8508-8513*
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- I Arsie, V Marano, M Moran, G Rizzo, G Savino (2007) **OPTIMAL MANAGEMENT OF A WIND/CAES POWER PLANT BY MEANS OF NEURAL NETWORK WIND SPEED FORECAST** *In: EWEC 2007, European Wind Energy Conference & Exhibition. EWEC 2007 - European Wind Energy Conference & Exhibition. Milano. 7-10 May 2007*
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- I Arsie, G Rizzo, M Sorrentino (2006) **Optimal Design of a Hybrid Solar Vehicle** *In: AVEC060091 - Proceedings of AVEC '06, The 8th International Symposium on Advanced Vehicle Control, August 20-24, 2006, Taipei, Taiwan*
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- 1990 ➤ G Rizzo (1990) **A Method for the Optimal Design of Engine Control Systems with Economic Constraints** In: *AIRO 90, Models and Methods for Decision Support* Edited by:Operation Research Society of Italy. 
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- G Rizzo (2011) **Photovoltaic for cars: potentialities, limits and research topics** The 2nd International Conference on Control, Instrumentation and Automation, December 27-29, 2011, Shiraz (Iran) [Invited lectures]
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All Tags: Active Learning, Adaptive Control, Advanced Concept Vehicle, Alternative vehicles, Aquaculture, Automotive Control (2), CAES (4), Car electrification, Cogeneration (2), Combustion, Control (2), Cylinder Wall Temperature, Diesel engine, Diesel engines, DOE, Economic Optimization, Electric Vehicle, Electric vehicles, Electric Vehicles (2), Emission modelling, Emissions, Energy Management (6), Energy Management. (2), Energy Plan, Engine Control (11), Engine control, Engine modeling, Engine Modeling (5), Engine modelling, Engine Modelling (2), Engine Optimization, Engine Thermal Management, Experimental Design, Fuel Cell vehicle., Fuel Injection, Gas turbine, Genetic Algorithm (2), Greenhouse gas emissions, Grid decarbonization, hybrid, Hybrid Solar Vehicle (2), Hybrid solar vehicles (3), Hybrid Solar Vehicles, Hybrid Vehicle (2), Hybrid vehicle, Hybrid Vehicles (16), Hybrid vehicles (2), Hybrid vehicles. (2), Identification, Internal Combustion Engine (4), Linear Programming, Look Ahead, Marine Fishery, Mathematical Model,