

DATI ANAGRAFICI E CURRICULUM ACCADEMICO

- Nasce a Bergamo il 29 agosto 1968
- Vive a Milano con la moglie Francesca e i loro tre figli di 18, 14 e 8 anni.
- Laureato in Ingegneria Meccanica presso il Politecnico di Milano nel 1992
- Dottore di Ricerca in Meccanica Applicata nel 1996
- Ricercatore di Ruolo (1999), Professore Associato (2001) e Professore Ordinario di Meccanica applicata alle Macchine (2004) presso il Politecnico di Milano

ATTIVITÀ ISTITUZIONALE

- Direttore del Dipartimento di Meccanica dal 2007
- Componente del Senato Accademico del Politecnico di Milano dal 2009
- Delegato del Rettore per la valorizzazione della ricerca e trasferimento tecnologico dal 2011
- Componente del Comitato Scientifico di PoliFab del Politecnico di Milano dal 2013
- Componente del Comitato Scientifico del Laboratorio Prove Materiali e Costruzioni del Politecnico di Milano dal 2013

Attualmente è:

- Membro del Collegio dei Docenti del Dottorato di Ricerca in Ingegneria dei Sistemi Meccanici
- Componente del Comitato Guida - Accordo Quadro tra Politecnico di Milano e Artsana Spa, Biochemtex Spa, ENI Spa, Finmeccanica Spa, ITER Srl, Pirelli Tyres Spa, Solvay Italy Spa, TCI Telecomunicazioni Italia Srl, Veneranda Fabbrica del Duomo.
- Rappresentante del Politecnico di Milano nell'Associazione PNIcube Associazione degli Incubatori e delle Business Plan Competition accademiche italiane
- Membro dell'Advisory Board di Polihub, incubatore del Politecnico di Milano

ATTIVITÀ DIDATTICA

Titolare degli insegnamenti di:

- Fondamenti di Meccanica Teorica e Applicata - Corso di Studio Ingegneria Meccanica (dal a.a. 2001/02 al a.a. 2002/03)
- Dinamica dei Sistemi Aerospaziali - Corso di Studio Ingegneria Aerospaziale (dal a.a. 2001/02 al a.a. 2007/08)
- Sistemi Meccatronici - Corso di Studio Ingegneria Meccanica (dal a.a. 2005/06 al a.a. 2006/07)
- Azionamenti dei Sistemi Meccanica - Corso di Studio Ingegneria Meccanica (dal a.a. 2004/05 al a.a. 2013/14)
- Modellistica dei Sistemi Meccanici - Corso di Studio Ingegneria dell'Automazione (dal a.a. 2003/04 ad oggi)
- Meccanica delle Vibrazioni - Corso di Studio Ingegneria Meccanica (dal a.a. 2013/14 ad oggi)

È inoltre co-autore dei seguenti testi:

- Fondamenti di meccanica teorica e applicata, N. Bachschmid, S. Bruni, A. Collina, B. Pizzigoni, F. Resta, Edizioni Mc Graw Hill, Seconda Edizione 2010
- Controllo di sistemi meccanici, Diana G., Resta F., Polipress, Milano, Italy, ISBN 978-88-7398-024-4, pp. 1-388, 2007

ATTIVITÀ DI RICERCA

L'attività di ricerca, con caratteristiche numerico-sperimentali, si sviluppata nei seguenti ambiti:

- Dinamica delle macchine, dei sistemi meccanici, elettromeccanici e delle strutture;
- Meccanica del veicolo (automobilistico e ferroviario);
- Sistemi di controllo e attuazione nei settori dell'automazione industriale, dei veicoli, della robotica;
- Interazione dinamica con fluido (ingegneria del vento e fluidodinamica);
- Attività sperimentale di misura, monitoraggio e diagnostica;
- Meccatronica e controllo delle vibrazioni;
- Sistemi "energy harvesting", MEMS (MicroElectroMechanicalSystem) e Smart material.

L'attività di ricerca svolta ha dato luogo a oltre 220 pubblicazioni scientifiche, pubblicate su riviste nazionali e internazionali e presentate a congressi internazionali (h-index 19, n.citazioni 884 da banca dati Scopus). È inoltre titolare di 7 brevetti internazionali.

Riveste inoltre i seguenti incarichi:

- Membro del Comitato Guida del Joint Research Center sui Trasporti istituito tra Rete Ferroviaria Italiana, Trenitalia, Bombardier, AnsaldoBreda, ABB, Fondazione Politecnico e Politecnico di Milano
- Membro del Consiglio di Amministrazione di Italcertifer S.p.A.
- Membro della Giunta esecutiva di Cluster Trasporti Italia 2020
- Socio fondatore della società "T.I.Ve.T. Tecnologie Innovative per Veicoli Terrestri" Spin-Off del Politecnico di Milano e della Società "E-CO", Spin-Off del Politecnico di Milano

Nell'attività di ricerca è stato responsabile o co-responsabile di contratti di ricerca nell'ambito di programmi europei, finanziamenti nazionali e di Regione Lombardia e responsabile di contratti di ricerca tra il Politecnico di Milano e, tra gli altri, Trenitalia, RFI, Italcertifer, Brembo, STMicroelectronics, Whirlpool, CIFA, ABB, LucchiniRS, Eni, GE, City Life, Ansaldo Breda, Expo 2015 S.p.A.

ATTIVITÀ DI CONSULENZA

Nel corso degli anni ha svolto i seguenti incarichi esterni all'Ateneo:

- partecipazione al gruppo di lavoro per il riordino normativo presso l'Agenzia Nazionale della Sicurezza Ferroviaria;
- attività di consulenza per Ferrovie dello Stato, Trenitalia, CIFA, Azienda Veneziana della Mobilità, Provincia Autonoma di Trento, Laika, Euticals;
- consulenze tecniche di ufficio e consulenze tecniche di parte.

Milano, 1 luglio 2016

Ferruccio Resta



Contatti

Tel 02.23998433
email: ferruccio.resta@polimi.it
www.ferruccioresta.com

PUBBLICAZIONI SCIENTIFICHE

1. **Comparison between analytical and experimental results of conductor vibration in turbulence conditions.** G. Diana, A. Manenti, F. Fossati C. Hardy, F. Resta, International Conference on Large High Tension Electric Systems", WG11 Meeting Stoccolma, Aprile 1994
2. **Time domain aeroelastic force identification on bridge decks,** G. Diana, F. Cheli, F. Resta, 9ICWE, 1995, New Delhi, India;
3. **Identification of Mechanical Systems by Extended Kalman Filter,** F. Cheli, F. Fossati, F. Miotto, F. Resta, XII Congresso nazionale AIMETA, Napoli - Ottobre 1995
4. **Controllo attivo nei pantografi per treni ad alta velocità,** F. Cheli, G. Diana, F. Miotto, F. Resta Ingegneria Ferroviaria, Aprile 1996 - Il lavoro ha vinto il 1° premio di merito indetto dalla rivista Ingegneria Ferroviaria nell'anno 1996
5. **On the identification of the over steering behaviour from experimental standard rapid manoeuvres,** ; P. Bolzern, F. Cheli, F. Resta, CESA '96 IMACS Multiconference, Lille France July 1996
6. **Active Control of high speed train pantographs,** MOVIC, Motion and Vibration Control, September 1996, Chiba, Japan; (in collaborazione con Prof. G. Diana, Ing. Collina, Ing. Fossati).
7. **On the identification in time domain of the parameters of a tyre model for the study of In-Plane dynamics,** F. Cheli, S. Bruni, F. Resta, IAVSD Tyre 97, Berlino Germania, Feb 97;
8. **Estimation of the Non-linear Suspension-Tire Cornering Forces from Experimental Road Test Data,** P. Bolzern, F. Cheli, M. Falciola, F. Resta, Vol. 31 Number 1 January 1999 – Vehicle system Dynamics, Int. Journal of vehicle mechanics and Mobility,
9. **High speed railway: Collecting pantographs active control and overhead lines diagnostic solutions,** G. Diana, F. Fossati, F. Resta, Vol. 30 Number 1 July 1998 – Vehicle system Dynamics, Int. Journal of vehicle mechanics and Mobility,
10. **High speed railway: pantographs and overhead lines modelling and simulation,** G. Diana, S. Bruni, A. Collina, F. Fossati, F. Resta, VI Int. Conf. COMPUTERS IN RAILWAYS, Portugal, August 1998,
11. **The Phenomenon of aeolian vibrations for ADSS cables,** M. Ginocchio, Consonni, Sutehall, G. Diana, A. Manenti, F. Resta, Proceedings of the Forty seventh INTERNATIONAL WIRE AND CABLE SYMPOSIUM, Nov. 1998
12. **Identification of non linear cornering forces from road test, with Extended Kalman Filter technique, for vehicle handling analysis,** R. De Bernardi, Turco, F. Cheli, F. Resta, EAEC – European Automotive Congress, Barcelona 30 June 1999,
13. **On the Vortex Shedding Vibration on Submarine Cables: Design Optimisation of Wrapped Cables for Controlling Vibrations,** M. Falc, F. Fossati, Third Inter. Symposium on CABLE DYNAMICS, Trondheim (Norway), August 1999
14. **The Aeroelastic Behaviour of the OHTL Expanded Bundles,** G. Diana, F. Cheli, A. Manenti, M. Boccione, F. Resta, Third Inter. Symposium on CABLE DYNAMICS, Trondheim (Norway), August 1999
15. **Road test data procedures for evaluating the hunting instability threshold of a railway vehicle from on board measurements,** S. Bruni, A. Collina, F. Cheli, F. Resta, 16th IAVSD Symposium: Dynamics of Vehicles, Pretoria, South Africa, August 1999
16. **Wind action on the london eye cables. part I: modelling of the cables dynamic response,** G. Diana, A. Zasso, F. Cheli, Marini, F. Resta, 6° Convegno Naz. Di Ing. Del VENTO, Genova, Giugno. 2000
17. **On the vortex induced vibration: equivalent oscillator parameters identification technique,** F. Fossati, F. Resta, International Conference on Acoustics, Noise and Vibration, Montreal, Quebec, Canada, August 8-12-2000
18. **Vortex Induced Vibrations of Marine Risers subjected to current and Sea Waves** G. Diana, F. Fossati, M. Belloli, F. Resta, Fourth Inter. Symposium on CABLE DYNAMICS, Montreal (Canada), May 28-30, 01
19. **On Current Induced In-Line Oscillations of Slender Marine Structures,** G. Diana, F. Fossati, M. Belloli, F. Resta, Fourth Inter. Symposium on CABLE DYNAMICS, Montreal (Canada), May 28-30, 01
20. **Development and Test of a Time Domain VIV Prediction Model,** F. Fossati, A. Guaita, F. Resta, Offshore Mediterranean Conf, OMC 2001, Ravenna (Italy), March 28-30, 01
21. **Actively Controlled pantograph: an application,** A. Collina, F. Fossati, F. Resta, 2001 IEEE/ASME Internat. Conf. On Advanced Intelligent Mechatronics Proceedings, Como (Italy), July 8-12, 2001
22. **Active Control of Railway vehicles to avoid Hunting Instability,** S. Bruni, F. Resta, 2001 IEEE/ASME Internat. Conf. On Advanced Intelligent Mechatronics Proceedings, Como (Italy), July 8-12, 2001
23. **Active Control of the Running Behaviour of a Railway Vehicle: Stability and Curving Performances,** S. Bruni, G. Diana, F. Cheli, F. Resta, 17th IAVSD Symposium: Dynamics of Vehicles, Lyngby, Denmark, August 2001.
24. **Wear of Railway Wheel Profiles: Experimental results and a Mathematical Model,** S. Bruni, F. Braghin, F. Resta, 17th IAVSD Symposium: Dynamics of Vehicles, Lyngby, Denmark, August 2001
25. **Wear of Railway Wheel Profiles: Experimental results and a Mathematical Model,** S. Bruni, F. Braghin, F. Resta, Vehicle System Dynamics (Veh. Syst. Dyn.) ISSN 0042-3114, 2002, vol. 37 (7 ref.), pp.478-489

26. **A Model of an Actively Controlled Roller Rig for tests on Full Scale Size Wheelsets**, S. Bruni, F. Cheli, F. Resta, *Journal of Rail and Rapid Transit*, 2001 Vol 215 No F4, pg 277
27. **Numerical Model of a Tilting Body Railway Vehicle Compared with Rig and Track Tests**, G. Diana, F. Cheli, F. Resta, Vol. 35 Number 6 June 2001 – *Vehicle System Dynamics*, Int. Journal of vehicle mechanics and Mobility
28. **An innovative OHL diagnosis procedure based on the pantograph dynamics measurements**, A. Collina, F. Fossati, F. Resta, WCRR 2001, World Congress on Railway Research, 25-29 November 2001, KolnMesse; Germany
29. **Experimental and modelling activity on a truck vehicle**, S. Melzi, F. Cheli, D. Donadio, F. Resta, *IJHVS*, *Internat. Journal of Heavy Vehicle System*, Vol. 10 N. 1/2, 2003
30. **Friction Law identification for Rubber Compounds on Rough Surfaces at medium sliding speed** F. Cheli, F. Braghin, F. Resta, AITC 2002 3rd AIMETA INTERNATIONAL TRIBOLOGY CONFERENCE 18 20 September 2002, Salerno, Italy
31. **Tyre wear estimation through a physical 3D tyre model** F. Cheli, S. Melzi, F. Braghin, F. Resta, AITC 2002 3rd AIMETA INTERNATIONAL TRIBOLOGY CONFERENCE 18 20 September 2002, Salerno, Italy
32. **Improvement of Stability and Curving Performances of Railway Vehicle by the Use of an Active Yaw Damper**, S. Bruni, F. Resta, *MECHATRONICS SYSTEMS 2002*, IFAC International federation of Automatic Control, December 9-11, 2002 Berkeley, California
33. **A new method for the measure of wheel rail contact forces**, S. Bruni, A. Cigada, S. Cervello, F. Braghin F. Resta, 6th Int. Conf. On Contact Mechanics and Wear of rail/Wheel System, 11-13 June 2003, Gothenborg, Sweden
34. **Determinazione delle forze di contatto tra ruota e rotaia a partire da misure di deformazione dell'assile**, A. Cigada, F. Braghin, S.Cervello, E. Benigni, F. Resta, *Ingegneria Ferroviaria*, n12 dicembre 02, anno LVII
35. **Active Control of the Running Behaviour of Railway Vehicle: Stability and Curving Performances**, S. Bruni, M. Lenti, Mancini, F. Resta, *ERRI, Interactive Conference, Mechatronics for Trains: Essential Technology for the Future*, June 19-20, 2002 Paris, France
36. **Sull'utilizzo di un banco a rotolamento per la ricerca in campo ferroviario – Parte I: Descrizione dell'apparato sperimentale** G. Diana, S. Bruni, Scepi, P.Castellazzi, S. Cervello, F. Resta, *Ingegneria Ferroviaria*, n. 9 Sett 2002
37. **Full-scale tests on a roller rig for railway wheel wear estimation**, S. Bruni, F. Braghin, F. Resta, 8th Conf. On Vehicle Dynamics, Identification and Anomalies, Budapest Hungary 11 November 2002
38. **Analisi sperimentale del comportamento dinamico di conduttori singoli e fasci di conduttori** A. Zasso, A. Cigada, M. Belloli, D. Rocchi F. Resta, *In-Vento 2002*, 15-18 settembre 2002, Milano, Italy
39. **Forced Motion and free motion aeroelastic tests on a new concept dynamometric section model of the Messina suspension bridge**, M. Boccione, M. Belloli, A. Tosi, F. Resta, *Eleventh Int. Conf. on Wind Engineering*, ICWE 03, Lubbock, Texas, June 2-5, 2003
40. **Effects of the yaw angle on the flutter derivatives and vortex shedding of the Messina multi-box girder deck section**, G. Diana, A. Zasso, D. Rocchi, F. Resta, *Eleventh International Conference on Wind Engineering*, ICWE 03, Lubbock, Texas, June 2-5, 2003
41. **Active Damping of Railway Bogies for Increase of velocity, Safety and Fatigue Life** G. Diana, S. Bruni, F. Braghin, F. Resta, *Mechatronik und Betriebsfertigkeit*, Stuttgart, Deutschland, October 8-9, 2003
42. **Dispositivi per la simulazione in laboratorio del comportamento dinamico del sistema di captazione elettrica nei treni ad alta velocità**, A. Collina, F. Fossati, A. Facchinetti, M. Mauri, F. Resta, *AIMETA '03 XVI Congresso AIMETA di Meccanica Teorica e Applicata*, Ferrara, (Italy) September, 2003
43. **Sul controllo attivo di sterzata per carrelli ferroviari: modello numerico e prime verifiche sperimentali**, S. Bruni, F. Braghin, F. Resta, *AIMETA '03 XVI Congresso AIMETA di Meccanica Teorica e Applicata*, Ferrara, (Italy) September, 2003
44. **Wind effects on suspension bridge: the case of the Messina Strait Bridge**, G. Diana, A. Zasso, M. Belloli, D. Rocchi, F. Resta, *Fifth International Symposium on Cable Dynamics*, Santa Margherita, (Italy) 15-18 September, 2003
45. **Wind tunnel investigation on aeroelastic behaviour of rigidly coupled cylinders**, A. Zasso, M. Belloli, D. Rocchi, F. Resta, *Fifth International Symposium on Cable Dynamics*, Santa Margherita, (Italy) 15-18 September, 2003
46. **A numerical model to reproduce the dynamic behaviour of steel catenary risers**, F. Fossati, M. Belloli, Guaita, F. Resta, *Fifth International Symposium on Cable Dynamics*, Santa Margherita, (Italy) 15-18 September, 2003
47. **Application of EKF to the estimation of contact forces in pantograph-catenary system** F. Fossati, A. Collina, A. Facchinetti, D. Carillo, Papi, F. Resta, *WCRR 2003 Edinburgh, UK*, 28th September – 1st October 2003

48. **Mobile forces reconstruction from displacement sensors**, Moranti Cecchi, Marcuzzi, F. Resta, International Conferences on CAE and Computational technologies for Industry MASCOT 03 / IMACS, 2-5 ottobre 2003, Forte Village, Cagliari, Italy
49. **Hardware-In-The-Loop Test-Rig for Identification and Control Application on High Speed Pantographs** Collina A., Facchinetti A., Fossati F., Resta F. Shock and Vibration, Vol. 11, No. 3/4, 2004, pp.: 445 – 456
50. **A Controlled Semi-Active Suspension System for High Performance Vehicles**, Cheli F., Costantini A., Porciani N., Resta F., Sabbioni E. Proceedings of the International Conference on Integrated Chassis Control, Effective Systems Integration as a First Step Towards the Vehicle-By-Wire, Napoli (Italy), 2004, pp.: 1 - 18
51. **Sul comportamento aerodinamico del ponte sullo Stretto di Messina in presenza di traffico**, Resta F., Belloli M., Tosi A., Muggiasca S. Proceedings of IN-VENTO 2004, 8. Convegno Nazionale di Ingegneria del Vento, Reggio Calabria (Italy), 2004, pp.: 1 - 10
52. **Un modello numerico atto a riprodurre il forzamento da distacco di vortici su impalcati di ponti sospesi** Diana G., Resta F., Belloli M., Rocchi D., Proceedings of IN-VENTO 2004, 8. Convegno Nazionale di Ingegneria del Vento, Reggio Calabria (Italy), 2004, pp.: 1 - 10
53. **Forced Motion and Free Motion Aeroelastic Tests on a New Concept Dynamometric Section Model of the Messina Suspension Bridge**, Diana G., Resta F., Zasso A., Belloli M., Rocchi D. , Journal of Wind Engineering and Industrial Aerodynamics, Vol. 92, 2004, pp.: 441 - 462
54. **Effects of the Yaw Angle on the Aerodynamic Behaviour of the Messina Multi-Box Girder Deck Section** Diana G., Resta F., Zasso A., Belloli M., Rocchi D., Wind & Structures, an International Journal, Vol. 7, No. 1, 2004, pp.: 41 - 54
55. **Tyre Wear Prediction and Comparison with Experimental Data**, Braghin F., Cheli F., Melzi S., Resta F., Proceedings of the 4th AIMETA International Tribology Conference, Roma (Italy), 2004, pp.: 195 - 202
56. **An Energetic Approach for the Identification of the Local Wear Law of Rubber Compounds from Experimental Data in Pure Longitudinal and Pure Lateral Slippage Conditions**, Braghin F., Cheli F., Melzi S., Resta F., Proceedings of the 4th AIMETA International Tribology Conference, Roma (Italy), 2004, pp.: 187 - 193
57. **Determination of the Inspection Intervals of a Boom for Concrete Pumping**, Beretta S., Carboni M., Resta F., Tosi A., Proceedings of the 7th International Conference on Engineering Structural Integrity Assessment, Manchester (UK), 2004, pp.: 407 - 414
58. **Mobile Forces Reconstruction from Displacement Sensors**, Marcuzzi F., Morandi Cecchi M., Resta F. Proceedings of the International Conference on CAE and Computational Technologies for Industry MASCOT03/IMACS, Cagliari (Italy), 2004, pp.: 1 - 9
59. **Sensitivity Analysis of the Tyre Design Parameters With Respect to Tyre Wear Using a Physical Tyre Model**, Braghin F., Cheli F., Melzi S., Resta F. Proceedings of TMVDA 04, 3rd International Tyre Colloquium, Tyre Models for Vehicle Dynamics Analysis, Vienna (Austria), 2004, pp.: 1 – 16
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61. **La meccatronica al servizio del progettista innovativo** Resta F., Progettista industriale, novembre 2005, n. 11, pp. 82-86
62. **Numerical and Experimental Analysis of a Nonlinear Vibrating MEMS**, Braghin F., Leo E. e Resta F., Proceedings of IMECE2005. 2005 ASME International Mechanical Engineering Congress and Exposition, Orlando 5-11 Novembre 2005
63. **Experimental analysis on vortex induced vibration of a long flexible cylinder**, Diana G., Resta F., Belloli M. e Muggiasca S., Proceedings of the Sixth International Symposium on Cable Dynamics, September 2005, Charleston, SC.
64. **Pantograph aerodynamics effects on the pantograph-catenary interaction**, Bocciolone M., Collina A., Resta F., Rocchi D. e Tosi A., Proceedings of 19th IAVSD Symposium, 29 August – 2 September 2005, Milano, Italy
65. **Development of a new control strategy for a semi-active differential for a high performance vehicle**, Cheli F., Pedrinelli M., Resta F., Travaglio G., Zanchetta M. e Zorzutti A., Proceedings of 19th IAVSD Symposium, 29 August – 2 September 2005, Milano, Italy
66. **Non linear Vibrations of a MEMS translational device**, Braghin F., Leo E. e Resta F., Proceedings of the Conference PRIME. IEEE catalog number: 05EX1148C, Lausanne 25-28 Luglio 2005
67. **An experimental device to investigate aerodynamics non linearities in bridge response to turbulent wind**, Diana G., Bruni S., Rocchi D., Belloli M. e Resta F., Proceedings of EURO DYN 2005 4-7 Settembre, Parigi, France
68. **An experimental and numerical approach to consider vortex induced vibrations in bridge aerodynamics**, Diana G., Resta F., Belloli M. e Rocchi D., Proceedings of EACWE4, 11-15 Luglio 2005 Praga, Czech Republic

69. **An Application of Active Control to the Collector of an High-Speed Pantograph: Simulation and Laboratory Tests**, Collina A., Facchinetti A., Fossati F. e Resta F., Proceedings of the 44th IEEE Conference on Decision and Control and European Control Conference ECC2005 (CDC-ECC'05), Siviglia, Spagna, 12-15 Dicembre 2005
70. **Determination of the inspection intervals of a boom for concrete pumping**, Beretta S., Carboni M., Resta F. e Tosi A., Proceedings of the Seventh International Conference on Engineering Structural Integrity assessment, 20-21 October 2004, Manchester, United Kingdom
71. **A new control strategy for semi-active differential (part II)**, Resta F., Teuschl G., Zanchetta M. e Zorzutti A., Proceedings of 16th IFAC World Congress, 3-8 July 2005, Pargue Czech Republic
72. **Analisi teorico sperimentale per la messa a punto di un modello di una macchina lavatrice**, Belloli M., Cheli F., Resta F. e Tosi A Atti del XVII Congresso AIMETA di Meccanica Teorica e Applicata, Firenze, 11-15 settembre 2005, su CD, ISBN 88 8453 248 5.
73. **Dinamica non lineare di un giroscopio MEMS**, Braghin F., Leo E. e Resta F., Atti del XVII Congresso AIMETA di Meccanica Teorica e Applicata, Firenze, 11-15 settembre 2005, su CD, ISBN 88 8453 248 5.
74. **Metodologia per l'analisi di percorribilità di marcia in assenza e in presenza di vento su ponte e su veicolo**, Collina A., Leo E., Tomasini G. e Resta F., Atti del XVII Congresso AIMETA di Meccanica Teorica e Applicata, Firenze, 11-15 settembre 2005, su CD, ISBN 88 8453 248 5.
75. **Approccio numerico sperimentale per lo studio del comportamento dinamico al vento di ponti a grande luce**, Bruni S., Diana G., Resta F. e Rocchi D., Atti del 2° Workshop Problemi di vibrazioni nelle strutture civili e nelle costruzioni di macchine, 10-11 giugno 2004, Perugia, Italia
76. **Sul comportamento aerodinamico Del Ponte sullo Stretto di Messina in presenza di traffico**, Resta F., Belloli M., Muggiasca S. e Tosi A., Atti dell'IN-VENTO-2004, 8° Convegno Nazionale di Ingegneria del Vento, Reggio Calabria, Giugno 2004.
77. **Un modello numerico atto a riprodurre il forzamento da distacco di vortici su impalcati di ponti sospesi** Diana G., Resta F., Belloli M. e Rocchi D., Atti dell'IN-VENTO-2004, 8° Convegno Nazionale di Ingegneria del Vento, Reggio Calabria, Giugno 2004
78. **On the vortex shedding forcing on suspension bridge deck**, Belloli M., Diana G., Resta F., Rocchi D., Journal on Wind Engineering and Industrial Aerodynamics, May 2006, Vol. 94 Issue 5, pp. 341-363
79. **Tyre Wear Model: validation and sensitivity analysis**, Braghin F., Cheli F., Melzi S., Resta F., Meccanica, Vol. 41, pp. 143-156, 2006
80. **Active yaw damper for the improvement of railway vehicle stability and curving performances: simulations and experimental results** Braghin F., Bruni S., Resta F., Journal of Vehicle System Dynamics, Vol. 44, No. 11, November 2006, pp. 857-869
81. **Pantograph-catenary interaction: pantograph aerodynamics effects**, Boccione M., Collina A., Resta F., Rocchi D., Tosi A., Journal of Vehicle System Dynamics, Vol. 44 Supplement, pp 560-570
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83. **Vehicle sideslip angle estimation through neural networks: application to numerical data** Melzi S., Resta F., Sabbioni E., Proceedings of ESDA2006 8th Biennial ASME Conference on Engineering Systems Design and Analysis, ESDA2006-95490, July 4-7, 2006, Torino, Italy, pp. 1-7.
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85. **Estimation of the Damping in MEMS Inertial Sensors: Comparison Between Numerical and Experimental Results Both at High and Low Pressure Level**, Braghin F., Leo E., Resta F., Proceedings of ESDA2006 8th Biennial ASME Conference on Engineering Systems Design and Analysis, ESDA2006-95490, July 4-7, 2006, Torino, Italy, pp. 1-9.
86. **A New Numerical Approach to Riproduce Bridge Aerodynamic Non Linearity in Time Domain** Diana G., Resta F., Rocchi D., Proceedings of CWE2006 4th International Symposium on Computational Wind Engineering, Yokohama, Japan, 16-19, 2006
87. **The influence of vehicle parameters on tyre wear** Braghin F., Cheli F., Melzi S., Resta F., Proceedings of the AITC-AIT 06 - International Conference on Tribology, Parma, Italy, September 20-22, 2006
88. **Rope vibrations under wind action** Belloli M., Collina A., Resta F., Proceedings of OITAF Seminar Characteristics and Inspection of Ropes, Grenoble, France, April 27, 2006, pp. 1-6.
89. **Modeling The Stiffness And Inertial Characteristics Of Mems' Supporting Beams** Braghin F., Leo E., Resta F., Proceedings of EUROSIME 2006, Thermal, Mechanical and Multi-Physics Simulation and Experiments in Micro-Electromechanis and micro.systems, Como, Italy, April 23, 2006
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