






PERSONAL INFORMATION

Marco Francesco BOCCIOLONE

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Sex Male | Date of birth 09/07/1961 | Nationality Italian

WORK EXPERIENCE

September 2012 - Present

Full Professor of Applied Mechanics

Politecnico di Milano – Department of Mechanical Engineering

September 2006 – August 2012

Full Professor of Mechanical and Thermal Measurements,

Politecnico di Milano – Department of Mechanical Engineering

August 2000 – September 2006

Associate professor of Mechanical and Thermal Measurements

Politecnico di Milano – Department of Mechanical Engineering

August 1993 – August 2000

Researcher of Mechanical and Thermal Measurements

Politecnico di Milano – Department of Mechanical Engineering

April 1989 – July 1993

Graduate Tech

Politecnico di Milano – Department of Mechanical Engineering

EDUCATION AND TRAINING

2019 March

“Transizione alla norma UNI EN ISO/IEC 17025:2018 e requisiti Accredia (RT-08 per i CAB)
Diagon Alley

2012 May

UNI EN ISO/IEC 17025:2005 - Requisiti generali per la competenza dei laboratori di prova e di taratura
Diagon Alley

1980 - 1986

Master of Science (5 year course) in Mechanical Engineering
Politecnico di Milano

1980

Upper secondary education diploma: Liceo Classico
Istituto Leone XIII – Milano

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | Good | Good | Good | Good | Good |

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

ACADEMIC TEACHING

Courses:

"Applied Mechanics", Bachelor of Science degree, Biomedical Engineering

"Measuring Techniques and Sensors for Automation" (Master of Science degree in Mechanical Engineering)

RESPONSABILITIES

25/01/2017 - 31/12/2022: member, executive board (Consiglio di Riferimento), Lecco Campus (Polo Territoriale di Lecco), Politecnico di Milano

04/07/2013 - 31/12/2016: member, executive board (Consiglio di Riferimento), Lecco Campus (Polo Territoriale di Lecco), Politecnico di Milano

01/02/2019 - 31/12/2021: member, Scientific Committee, "Laboratorio Prove Materiali e Costruzioni, Politecnico di Milano

16/02/2017 - 31/12/2018: member, Scientific Committee, "Laboratorio Prove Materiali e Costruzioni, Politecnico di Milano

01/01/2019 - 31/12/2021: member, Scientific Committee, "PoliFab", Politecnico di Milano

26/01/2017 - 31/12/2018: member, Scientific Committee, "PoliFab", Politecnico di Milano

01/01/2017 - 31/12/2019; member, executive board, Department of Mechanical Engineering, Politecnico di Milano

01/01/2020 - 31/12/2022; member, executive board, Department of Mechanical Engineering, Politecnico di Milano

01/01/2017 - 31/12/2019, member, Academic Senate, Politecnico di Milano

01/01/2020 - 31/12/2022, member, Academic Senate, Politecnico di Milano

01/01/2011 – 31/12/2016: Academic Senate, Politecnico di Milano, (attending meetings without voting rights)

01/01/2011 – 31/12/2016: Board of Governors, Politecnico di Milano, (attending meetings without voting rights)

01/01/2017 - 31/12/2019, head, Department of Mechanical Engineering, Politecnico di Milano

01/01/2020 - 31/12/2022, head, Department of Mechanical Engineering, Politecnico di Milano

01/01/2011 - 31/12/2016: vice rector, Lecco Campus (Polo Territoriale di Lecco), Politecnico di Milano

19/07/2007 - 21/12/2010: President, Study Programme Board, Bachelor of Science Programme (N. O.) in Mechanical Engineering, Lecco Campus, School of Industrial Engineering

19/07/2007 - 21/12/2010: President, Study Programme Board, Master of Science Programme in Mechanical Engineering (ord. 509), Lecco Campus, School of Industrial Engineering

19/07/2007 - 21/12/2010: President, Study Programme Board, Master of Science Programme in Mechanical Engineering (ord. 270), Lecco Campus, School of Industrial Engineering

November 2004 – December 2010: head, laboratories of Department of Mechanical Engineering, Politecnico di Milano

November 2004 – December 2010: member, Executive Board of Department of Mechanical Engineering, Politecnico di Milano

May 2003 – December 2010: head, Section of Misure e Tecniche Sperimentali, Department of Mechanical Engineering, Politecnico di Milano

February 1998 – present: head, accredited laboratory for acceleration transducers calibration named "Settore Accelerometria" section of "Centro Taratura Politecnico", Accredia LAT 104 (accreditation body in Italy for the calibration laboratories)

January 2004 – December 2006: member, Scientific Committee of "Centro per la Qualità di Ateneo" (Board for Quality Assurance of Politecnico di Milano)

APPOINTMENTS

22/03/2019 - 12/09/2019: president pro tempore ASSOCIAZIONE FEDERTEC

12/09/2019 - today: member, bureau ASSOCIAZIONE FEDERTEC

RESEARCH GRANTS

MIUR: Development of an innovative sensorized pantograph collector-head in order to improve the current collection on high-speed trains, 2004-2006, co-investigator (Responsabile Scientifico dell'Unità di Ricerca – MIUR code: 2004098392_005)

MIUR: Development of novel methods for the measurement of mechanical quantities to optimize the movement rehabilitation, 2007-2009, co-investigator (Responsabile Scientifico dell'Unità di Ricerca – MIUR code: 2006099317_005)

Fondazione Cariplo: Health Innovation Network Technology @ Lecco per la creazione di un Network di Eccellenza nell'ambito della ricerca biomedica di base ed applicata, 2004 – 2007, co-investigator (scientific coordinator of OU of Politecnico di Milano, Dipartimento di Meccanica)

Fondazione Cariplo: LIH, Lecco Innovation Lab, Laboratorio di ricerca della Nautica, 2011-2014, coordinator;

Regione Lombardia, The Lombardy Cluster Technologies for Living Environments (Cluster Lombardo per gli Ambienti di Vita), 2014 – present, member of the Scientific and Technical Committee

Fondazione della Provincia di Lecco Onlus, Fondazione Cariplo: "Behavioural Reaching Interfaces during Daily antiGravity Activities through upper limb Exoskeleton – BRIDGE", 2015 – present, co-investigator (scientific coordinator of OU of Politecnico di Milano)

Fondo Europeo di Sviluppo Regionale (FESR) 2007-2013, Realizzazione di Progetti di Ricerca Industriale e Sviluppo Sperimentale nel Settore delle Smart Cities and Communities: Progetto SMARTA (sistema di monitoraggio ambientale con rete di sensori e telemonitoraggio indossabile a supporto di servizi di salute, prevenzione e sicurezza per l'active aging), co-investigator (scientific coordinator of OU of Politecnico di Milano, Dipartimento di Meccanica)

RESEARCH INTERESTS

- analysis about measurements accuracy,
- rotor-dynamics,
- wind measurements and characterization,
- measurements of wind actions on structures,
- railway vehicle and sub-structure interaction;
- systems mechanical characterization measurements;
- biomechanical measurements and signal processing;
- quality systems and accreditation;
- sound field radiated by mobile sources like vehicles investigation.

OTHERS

Reviewer for the journal "Mechanical System and Signal Processing", Elsevier

PUBLICATIONS (relevant)

- M Boccione, F Cheli, A Curami, and A Zasso, "Wind measurements on the humber bridge and numerical simulations," *J Wind Eng Ind Aerodyn*, vol 42, no 1–3, pp 1393–1404, 1992
- J M W Brownjohn, M Boccione, A Curami, M Falco, and A Zasso, "Humber bridge full-scale measurement campaigns 1990-1991," *J Wind Eng Ind Aerodyn*, vol 52, no C, pp 185–218, 1994
- G DIANA, M BOCCIONE, A MANENTI, and A ZASSO, "Passive Control System for Reducing Hangers Wind Induced Vibrations Design Criteria and Application to Messina Straits Bridge," in *IABSE-FIP-AIPC International Conference on Cable-Stayed and Suspension Bridges*, 1994, vol 2, pp 499–506
- M BOCCIONE, S FASCIOLO, V LANCELLOTTI, and V MORELLI, "New Catenary Components Tested for 'AV' Italian Railway High Speed Lines," in *World Congress on Railway Research - WCRR'97*, 1997, pp 237–243
- M BOCCIONE, A CIGADA, M FALCO, G MOSCHIONI, and F RESTA, "Campagna di misura su linea aerea di alimentazione per treni ad alta velocità," in *III Congresso Nazionale di Misure Meccaniche e Termiche*, 1997, pp 186–195
- M Boccione, A Collina, and G Bucca, "a Test Rig for the Comparative Evaluation of the Performance of Collector Strips," in *Proceedings of Railway Engineering 2004*, 1998, pp 1–11
- F BRAGHIN and M BOCCIONE, "Analisi delle rotture dei bulloni di tenuta dei carrelli dei veicoli della linea MM3," *Rapporto interno del Dipartimento di Meccanica, Politecnico di Milano* 1998

- M BOCCIOLONE, A CIGADA, R CORRADI, M FALCO, and M VANALI, "Misure per l'analisi del comportamento dinamico di veicoli ferroviari per linee a bassa velocità e con curve di piccolo raggio," in *IV Congresso Nazionale di Misure Meccaniche e Termiche*, 1999, pp 117–128
- G Diana, F Cheli, A Zasso, and M Boccione, "Suspension bridge response to turbulent wind: comparison of new numerical simulation method results with full scale data," in *Wind Engineering into the 21 Century*, 1999, vol 2, pp 871–878
- G DIANA, F CHELI, A MANENTI, M BOCCIOLONE, and F RESTA, "The aeroelastic behaviour of the OHTL expanded bundles," in *Proceedings of the Third IntSymp on Cable Dynamics*, 1999, pp 1–8
- M Boccione, A Cigada, and M Falco, "Train-structure interaction: Measurement in the subway of Milan," *Heavy Veh Syst*, vol 6, no 1, pp 28–45, 1999
- G DIANA, F CHELI, A MANENTI, M BOCCIOLONE, and F RESTA, "The aeroelastic behaviour of the OHTL expanded bundles," in *Proceedings of the Third IntSymp on Cable Dynamics*, 1999, pp 1–8
- F BRAGHIN, M BOCCIOLONE, and B FLAPP, "Sul comportamento dell'armamento con ballast: indagine sperimentale," *Rapporto interno del Dipartimento di Meccanica, Politecnico di Milano* 1999
- M BOCCIOLONE, A CIGADA, and G MOSCHIONI, "In the subway with LabVIEW," in *NiDay-Europe*, 2000, p na--na
- M Boccione, A Cigada, and M Falco, "L'importanza dell'attività sperimentale negli studi di ingegneria," *TUTTO MISURE*, vol 2, pp 225–229, 2001
- M BOCCIOLONE, A CIGADA, and M FALCO, "L'importanza dell'attività sperimentale negli studi di Ingegneria," *TUTTO MISURE*, 2001
- M BOCCIOLONE, A GIROTTI, and M SANGIRARDI, "Upgrade of a Bogie for High-Speed Night Passenger Service," in *Bogie 01*, 2001, pp 413–418
- M BOCCIOLONE, A GIROTTI, and M SANGIRARDI, "Upgrade of a Bogie for High-Speed Night Passenger Service," in *Bogie 01*, 2001, pp 413–418
- M Belloli, M Boccione, A Cigada, A Collina, and D Rocchi, "Rail wear on underground lines: vibration effects, measurement and diagnostics," in *Proceedings of Techrail: International Workshop and Demonstration on High Technology Systems for Railway Transportation*, 2002, pp 1–16
- M Boccione, D Rocchi, and M Vanali, "Microphone array measurements for the identification of mobile noise sources," in *Atti del 5 Congresso Nazionale di Misure Meccaniche e Termiche*, 2002, pp 1–11
- M BOCCIOLONE, F CHELI, R CORRADI, G DIANA, G TOMASINI, and R ROBERTI, "Caratterizzazione delle forze aerodinamiche associate al vento trasversale su convogli ferroviari tramite misure in galleria del vento," in *INVENTO 2002 – 7° Congresso Nazionale di Ingegneria del Vento*, 2002, pp 249–256
- M Boccione, F Cheli, R Corradi, G Diana, R Roberti, and G Tomasini, "Caratterizzazione delle forze aerodinamiche associate al vento trasversale su convogli ferroviari tramite misure in galleria del vento," 2002, pp 1–8
- G Diana, R Manigrasso, M Boccione, F Mapelli, and A Collina, "Banco prova materiali per striscianti," *Ing Ferrov*, vol 58, no 3, pp 295–301, 2003
- S Bruni, M Boccione, and S Beretta, "Simulation of bridge-heavy road vehicle interaction and assessment of structure durability," *Heavy Veh Syst*, vol 10, no 1–2, pp 70–85, 2003
- C Bovisa and V La Masa, "Monitoring and Qualification of a New Track: Long-Time Data Acquisition Campaign and Data Saving Strategies," in *Railway Engineering – 2003, 6th International Conference and Exhibition*, 2003, pp 1–9
- M BOCCIOLONE, A CIGADA, and A COLLINA, "Misure per il miglioramento di sicurezza, prestazioni e comfort in ambito ferroviario," *TUTTO MISURE*, 2003
- M Boccione, F Cheli, R Corradi, G Diana, and G Tomasini, "Wind tunnel tests for the identification of the aerodynamic forces on rail vehicles," in *11th ICWE - International Conference on Wind Engineering*, 2003, pp 877–884
- M Boccione, F Cheli, R Corradi, G Diana, and G Tomasini, "Wind tunnel tests for the identification of the aerodynamic forces on rail vehicles," in *11th ICWE - International Conference on Wind Engineering*, 2003
- M Boccione, A Cigada, and A Collina, "Misure per il miglioramento di sicurezza, prestazioni e comfort in ambito ferroviario," *TUTTO MISURE*, vol 5(2003), pp 326–330, 2003
- G Diana, F Resta, A Zasso, M Belloli, and D Rocchi, "Forced motion and free motion aeroelastic tests on a new concept dynamometric section model of the Messina suspension bridge," in

- Journal of Wind Engineering and Industrial Aerodynamics*, 2004, vol 92, no 6, pp 441–462
- M BOCCIOLONE, F CHELI, R CORRADI, S MUGGIASCA, and G TOMASINI, “Approccio numerico sperimentale per la stima degli effetti del vento trasversale sulla dinamica del veicolo ferroviario ad assetto variabile,” in *Atti di In-VENTO VIII Convegno di Ingegneria del vento*, 2004, pp 1–8
 - G Diana, M Boccione, B Collina, B Cavagna, and M Acquati, “Massive-type track equipment in Milan: Ideation, dynamic simulation and laboratory prototype experimentation,” *Ing Ferrov*, vol 59, no 2, pp 113–123, 2004
 - G Diana, F Resta, A Zasso, M Belloli, and D Rocchi, “Forced motion and free motion aeroelastic tests on a new concept dynamometric section model of the Messina suspension bridge,” in *Journal of Wind Engineering and Industrial Aerodynamics*, 2004, vol 92, no 6, pp 441–462
 - M AGENO, M BOCCIOLONE, G BOLZON, A CIGADA, G MAIER, and E ZAPPA, “Mechanical characterization of thin foils by profilometer measurements of inflated membranes,” in *ICEM12 - 12th International Conference on Experimental Mechanics (Advances in Experimental Mechanics)*, 2004
 - G Diana, F Resta, A Zasso, M Belloli, and D Rocchi, “Forced motion and free motion aeroelastic tests on a new concept dynamometric section model of the Messina suspension bridge,” in *Journal of Wind Engineering and Industrial Aerodynamics*, 2004, vol 92, no 6, pp 441–462
 - G DIANA, M BOCCIOLONE, A COLLINA, D ROCCHI, and A TOSI, “Azioni ed effetti del vento sulla copertura dello stadio di Braga: prove in galleria del vento su modello aeroelastico,” in *ATTI DELL'IN-VENTO-2004, 8° CONVEGNO NAZIONALE DI INGEGNERIA DEL VENTO*, 2005, pp 103–112
 - M Boccione, F Cheli, M Pezzola, and R Viganò, “Static and dynamic properties of a motorcycle frame: experimental and numerical approach,” in *WIT Transactions on Modelling and Simulation*, vol 41, SOUTHAMPTON, BOSTON: WIT Press, 2005, pp 1743–355
 - G Diana, M Boccione, F Cheli, A Cigada, and A Manenti, “Large wind-induced vibrations on conductor bundles: Laboratory scale measurements to reproduce the dynamic behavior of the spans and the suspension sets,” *IEEE Trans Power Deliv*, vol 20, no 2 II, pp 1617–1623, 2005
 - M Boccione, A Cantatore, L Comolli, and E Zappa, “Progetto HINT@Lecco: caratterizzazione metrologica di un cicloergometro,” *Quad DELL'ARETÉ*, vol 2(2005), pp 47–65, 2005
 - M Boccione, F Cheli, M Pezzola, and R Viganò, “Un approccio quantitativo alla rigidità dei telai e di altri componenti motociclistici: banco per prove di flessione e torsione (I Parte),” *MOTOTECNICA*, vol 19(2005), pp 107–112, 2005
 - M Boccione, F Cheli, M Pezzola, and R Viganò, “Un approccio quantitativo alla rigidità dei telai e di altri componenti motociclistici: banco per prove di flessione e torsione (II Parte),” *MOTOTECNICA*, vol 19 (10), pp 106–113, 2005
 - M Boccione, A Cigada, and E Zappa, “Prove ed analisi statiche e dinamiche di un armamento metro,” *Ing Ferrov*, vol 60, no 10, pp 527–537, 2005
 - M Boccione, F Cheli, M Pezzola, and R Viganò, “Static and dynamic properties of a motorcycle frame: experimental and numerical approach,” in *WIT Transactions on Modelling and Simulation*, vol 41, BOSTON: wit press, 2006, pp 1743–355
 - P Boffi *et al*, “Fiber sensor for collector strain monitoring in the pantograph-catenary interaction,” in *Optics InfoBase Conference Papers*, 2006
 - M Elia *et al*, “Condition monitoring of the railway line and overhead equipment through onboard train measurement - An Italian experience,” in *IET Seminar Digest*, 2006, vol 2006, no 11575, pp 102–107
 - M Boccione, F Resta, D Rocchi, A Tosi, and A Collina, “Pantograph aerodynamic effects on the pantograph-catenary interaction,” *Veh Syst Dyn*, vol 44, no SUPPL 1, pp 560–570, 2006
 - M Boccione, F Cheli, E Leo, and M Pezzola, “Experimental identification of a motorcycle rider 3D movements on a running vehicle,” in *Proceedings of 8th Biennial ASME Conference on Engineering Systems Design and Analysis, ESDA2006*, 2006, vol 2006
 - F Cheli, M Boccione, M Pezzola, and E Leo, “Numerical and experimental approaches to investigate the stability of a motorcycle vehicle,” in *Proceedings of 8th Biennial ASME Conference on Engineering Systems Design and Analysis, ESDA2006*, 2006, vol 2006, pp 1–10
 - M BOCCIOLONE, A COLLINA, A LO CONTE, B PREVITALI, P BASSANI, and A TUISSI, “Un'applicazione di materiali a memoria di forma per l'incremento dello smorzamento strutturale di archetti di pantografi per alta velocità,” in *AIAS 2006 - Associazione Italiana per l'Analisi delle Sollecitazioni (AIAS) - XXXV Convegno Nazionale*, 2006, pp 1–8
 - M BOCCIOLONE, F CHELI, E LEO, M PEZZOLA, F BENEDETTI, and C GRASSI, “Identificazione sperimentale dei movimenti nello spazio di un pilota motociclistico su un veicolo,”

- Super Moto Tecnica, Nuovi Periodici Milanesi srl*, pp 88–96, 2006
- M Boccione, F Cheli, E Leo, and M Pezzola, “Experimental identification of kinematic coupled effects between driver - Motorcycle,” in *Conference Proceedings of the Society for Experimental Mechanics Series*, 2007
 - M Boccione, A Caprioli, A Cigada, and A Collina, “A measurement system for quick rail inspection and effective track maintenance strategy,” *Mech Syst Signal Process*, vol 21, no 3, pp 1242–1254, 2007
 - M Boccione, G Bucca, A Collina, F Resta, and P Milano, “an Optical Fiber Set-Up To Monitor Contact Force in Pantograph-Catenary System,” in *Proceedings of Railway Engineering-2007*, 2007
 - M BOCCIOLONE, M LURATI, M VANALI, and F MOLTENI, “Force measurements on lokomat,” in *Hint@Lecco, Workshop: L’innovazione tecnologica nella medicina riabilitativa*, 2007, pp 1–5
 - M Boccione, G Bucca, A Collina, F Resta, and P Milano, “an Optical Fiber Set-Up To Monitor Contact Force in Pantograph-Catenary System,” in *Railway Engineering 2007, 9th Interational Conference and Exhibition*, 2007, pp 1–8
 - E Ambrosini, “Measurement of the Right and Left Crank Torque to Improve the Rehabilitative Effects of FES Cycling on Stroke Patients,” in *12th Annual Conference of the International Functional Electrical Stimulation Society*, 2007, p 81
 - M Boccione, M Lurati, M Vanali, and F Molteni, “Force measurement during gait therapy assisted by a robotic treadmill - The case of lokomat??,” in *BIODEVICES 2008 - Proceedings of the 1st International Conference on Biomedical Electronics and Devices*, 2008, vol 2, pp 35–40
 - M Boccione, F Cheli, R Corradi, S Muggiasca, and G Tomasini, “Crosswind action on rail vehicles: Wind tunnel experimental analyses,” *J Wind Eng Ind Aerodyn*, vol 96, no 5, pp 584–610, 2008
 - F Simona, C Lorenzo, P Alessandr, B Marco, F Giancarl, and M Franco, “Optimization of a FES cycling neuroprosthesis on stroke patients by means of the left and right crank measurements,” in *BIODEVICES 2008 - Proceedings of the 1st International Conference on Biomedical Electronics and Devices*, 2008, vol 1, pp 206–211
 - B Marco, C Lorenzo, and M Franco, “Metrological charactetization of a cycle-ergometer,” in *BIODEVICES 2008 - Proceedings of the 1st International Conference on Biomedical Electronics and Devices*, 2008, vol 2, pp 23–28
 - M Boccione, “Gli algoritmi di Fourier per l’analisi dei segnali,” in *Strumenti e Metodi di Misura*, Milano: McGraw-Hill Companies Srl, 2008
 - B Marco, C Lorenzo, and M Franco, “Metrological charactetization of a cycle-ergometer,” in *BIODEVICES 2008 - Proceedings of the 1st International Conference on Biomedical Electronics and Devices*, 2008, vol 2, pp 23–28
 - P Boffi *et al*, “Optical fiber sensors to measure collector performance in the pantograph-catenary interaction,” *IEEE Sens J*, vol 9, no 6, pp 635–640, 2009
 - A Tuissi *et al*, “Application of SMA composites in the collectors of the railway pantograph for the italian high-speed train,” *J Mater Eng Perform*, vol 18, no 5–6, pp 612–619, 2009
 - M BOCCIOLONE and R VIGANO’, “Sperimentazione e innovazione: un connubio da valorizzare,” *Progett Ind*, vol 29, pp 54–57, 2009
 - M Boccione, “Sperimentazione nella progettazione e nel monitoraggio di armenti ferroviari,” *Tutto Misure*, vol 04, pp 281–285, 2009
 - A Tuissi *et al*, “Application of SMA composites in the collectors of the railway pantograph for the italian high-speed train,” in *Journal of Materials Engineering and Performance*, 2009, vol 18, no 5–6, pp 612–619
 - M Boccione, G Bucca, A Collina, and L Comolli, “An approach to monitor railway pantograph-catenary interaction with fiber optic sensors,” in *Fourth European Workshop on Optical Fibre Sensors*, 2010, vol 7653, p 76533Q
 - L Comolli, G Bucca, M Boccione, and A Collina, “First results from in line strain measurements with FBG sensors on the pantograph collector of underground trains,” in *Optical Sensing and Detection*, 2010, vol 7726, p 772605
 - M Boccione, G Bucca, A Collina, and L Comolli, “Comparison of optical and electrical measurements of the pantograph-catenary contact force,” in *Fourth European Workshop on Optical Fibre Sensors*, 2010, vol 7653, p 765346
 - M Boccione, G Bucca, A Cigada, A Collina, and L Comolli, “An application of FBG accelerometers for monitoring pantographs of underground trains,” in *Fourth European Workshop on Optical Fibre Sensors*, 2010, vol 7653, p 765341
 - L Comolli, S Ferrante, A Pedrocchi, M Boccione, G Ferrigno, and F Molteni, “Metrological

- characterization of a cycle-ergometer to optimize the cycling induced by functional electrical stimulation on patients with stroke," *Med Eng Phys*, vol 32, no 4, pp 339–348, 2010
- M Diana, Giorgio, Resta, Ferruccio, Braghin, Francesco, Di Galleonardo, Egidio, Boccione and P Crosio, "Design of a new full-scale test-rig for the calibration of instrumented wheelsets," in *9th World Congress on Rail Research*, 2011, pp 1–8
 - S Bionda, M Boccione, F Braghin, P Crosio, E Di Galleonardo, and F Resta, "Experimental and numerical analysis of critical running conditions of a metro vehicle," in *Proceedings of the Mini Conference on Vehicle System Dynamics, Identification and Anomalies*, 2012, vol 2012-November, pp 193–200
 - M Boccione, L Comolli, and P Crosio, "A novel design of a compact S-shaped balance with FBG sensors for the pantograph-catenary contact force measurement," in *OFS2012 22nd International Conference on Optical Fiber Sensors*, 2012, vol 8421, pp 84214Z-84214Z–4
 - M Boccione, G Bucca, F Cheli, and G Tomasini, "Analysis of pressure measurements for railway vehicles on tunnel," in *Proceedings of the Mini Conference on Vehicle System Dynamics, Identification and Anomalies*, 2012, vol 2012-November, pp 201–208
 - G Diana, F Resta, F Braghin, M Boccione, E Di Galleonardo, and P Crosio, "Methodology for the calibration of dynamometric wheel-sets for the measurement of the wheel-rail contact forces | Metodologia di calibrazione di sale dinamometriche per la misura delle forze di contatto tra ruota e rotaia," *Ing Ferro*, vol 67, no 1, 2012
 - M Boccione, S Manzoni, and E Zappa, "Maximum Likelihood approach to calibrate hysteretic transducers," *Meas J Int Meas Confed*, vol 45, no 7, pp 1842–1854, 2012
 - M Boccione *et al*, "Design for the Damping of a Railway Collector Based on the Application of Shape Memory Alloys," *Smart Mater Res*, vol 2012, pp 1–9, 2012
 - M F Boccione, "Prefazione," in *insiemeadarte - Arte Università Impresa*, Milano: SKIRA, 2012
 - M Boccione *et al*, "Application of martensitic SMA alloys as passive dampers of GFRP laminated composites," *Frat ed Integrita Strutt*, vol 23, pp 34–46, 2012
 - M Boccione, G Bucca, A Collina, and L Comolli, "Pantograph-catenary monitoring by means of fibre Bragg grating sensors: Results from tests in an underground line," *Mech Syst Signal Process*, vol 41, no 1–2, pp 226–238, 2013
 - M Boccione, G Bucca, A Collina, and L Comolli, "Application of new optical load cells for in-line measurement of pantograph-catenary contact force," in *Fifth European Workshop on Optical Fibre Sensors*, 2013, vol 8794, p 879442
 - M F Boccione, "Introduzione," in *150 anni di cultura politecnica da Milano a Lecco [150 years of the Polytecnic Culture from Milan to Lecco]*, Gruppo24Ore Editore, 2013
 - M Boccione *et al*, "Sma/Gfrp Composite Plates: Passive Damping and Interface Strength," in *CompTest 2013 - Book of Abstracts*, 2013
 - M Boccione *et al*, "Strength of Sma/Gfrp Interface in a New Designed Railway Collector," in *Proceedings of 6th ECCOMAS Thematic Conference on Smart Structures and Materials (SMART2013)*, 2013
 - M Boccione, G Bucca, A Collina, and L Comolli, "A mechanical filter for FBG accelerometers," in *23rd International Conference on Optical Fibre Sensors*, 2014, vol 9157, p 91579J
 - M F Boccione, "Il Polo Territoriale di Lecco e i servizi per il territorio," in *Il Recupero dei nuclei storici minori: il caso di Premana*, Sant'Arcangelo di Romagna: Maggioli Editore, 2015
 - M F Boccione, "Il Politecnico di Milano centro di eccellenza per l'innovazione tecnologica legata allo sport," in *Sport e Industria: storie di Passioni, Ricerca e Innovazione*, 2015
 - G Belloni, M Boccione, and A Lo Conte, "Fatigue test bench for railway bogies and superstructures," in *Proceedings of the World Congress on Railway Research 2001*, 2015, no figure 1
 - G Belloni, M Boccione, and A Lo Conte, "Fatigue test bench for railway bogies and superstructures," in *World Congress on Railway Research WCRR'01*, 2015, no figure 1, pp 1–7
 - M Tarabini, B Saggin, M Boccione, D Scaccabarozzi, and M Magni, "Falls in older adults: Kinematic analyses with a crash test dummy," in *2016 IEEE International Symposium on Medical Measurements and Applications, MeMeA 2016 - Proceedings*, 2016
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