

# Valeria Settimi

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## Curriculum Vitae

### PART I - General Information

Full Name Valeria Settimi  
Spoken Languages Italian (mother tongue), English (fluent), French (basic)  
Scientific IDs OrCID: <http://orcid.org/0000-0002-0555-0883>  
Scopus Author ID: 54956597000  
Web of Science ResearchedID: G-5688-2014

### PART II - Education

- 2013 **Phd in Structural Engineering (ICAR/08)**, *Sapienza University of Rome, Rome, Result – Excellent.*  
Title of the thesis: "Bifurcation scenarios, dynamical integrity and control of noncontact Atomic Force Microscope", tutor Professor Giuseppe Rega.
- 2008 **Master Degree in Architecture, Structural Design and Rehabilitation**, *Sapienza University of Rome, Rome, Result – 110/110 cum laude.*
- 2004 **Bachelor Degree in Architecture**, *IUAV Institute of Venice, Venice, Result – 110/110.*

### PART III - Appointments

#### IIIA - Academic Appointments

- 2012–2018 **Postdoc fellow in SSD-ICAR/08**, *Department of Structural and Geotechnical Engineering, Sapienza University of Rome, Rome.*  
Title of research: "Modeling and nonlinear dynamics of Atomic Force Microscopes".

#### IIIB - Conference and Mini-symposia Organization

- 2019 Member of the Local Organizing Committee of the NODYCON 2019 - *First International Nonlinear Dynamics Conference*, held in Rome on February 17-20.
- 2018 Organizer of the Mini-symposium entitled *Computational Methods in Nonlinear Dynamics Problems* at ICCM2018 - *9<sup>th</sup> International Conference on Computational Methods*, to be held in Rome on August 6-10.
- 2017 Chair at the Mini-symposium on *Vibration Control and Mitigation (MS12)* of the EURO DYN 2017 - *X International Conference on Structural Dynamics*, held in Rome on September 10-13.

- 2017 Member of the Local Organizing Committee of the EURODYN 2017 - *X International Conference on Structural Dynamics*, held in Rome on September 10-13.
- 2012 Member of the Local Organizing Committee of the *XXXII Congress of the History of Physics and Astronomy*, held in Rome on September 27-29.
- 2011 Member of the Local Organizing Committee of the ENOC 2011 - *7<sup>th</sup> European Nonlinear Dynamics Conference*, held in Rome on July 24-29.
- 2009 Member of the Local Organizing Committee of the EUROMECH Colloquium 503: *Nonlinear Normal Modes, Dimension Reduction and Localization in Vibrating Systems*, held in Frascati (Rome) on September 27 - October 2.

#### IIIC - Journal Peer-Reviewer

- 2012–to date Nonlinear Dynamics, Journal of Sound and Vibration, Meccanica, Journal of Vibration and Control, Journal of Theoretical and Applied Mechanics, International Journal of Non-Linear Mechanics, Physics Letters A, Journal of the Franklin Institute, AIAA Journal, Communications in Nonlinear Science and Numerical Simulation, Journal of Applied Mechanics, ASME Journal of Computational and Nonlinear Dynamics.

### PART IV - Teaching Experience

- 2018–2019 Adjunct professor for the course of Structural Mechanics (8 CFU - Single Cycle Degree in Architecture) at the Faculty of Architecture of Sapienza University of Rome.
- 2017–2018 Teaching support for the course of Structural Mechanics held by Prof. Francesco Romeo at the Faculty of Architecture of Sapienza University of Rome.
- 2015–2017 Teaching support for the course of Structural Mechanics held by Prof. Giuseppe Rega and Prof. Danilo Capecchi at the Faculty of Architecture of Sapienza University of Rome.
- 2013–2017 Teaching support for the course of Statics and Structural Mechanics held by Prof. Francesco Romeo at the Faculty of Architecture of Sapienza University of Rome.
- 2009–2011 Teaching support for the course of Structural Mechanics held by Prof. Giuseppe Rega at the Faculty of Architecture of Sapienza University of Rome.

### PART V - Society memberships, Awards and Honors

- 2019 **National Scientific Qualification (ASN) to function as Associate Professor for the Academic Discipline ICAR-08/B2 - Structural Mechanics**, The qualification was granted with unanimous consent of the Examination Committee, in response to the application to the second round of the call MIUR-ASN 2018-2020.
- 2016 GADeS 2016 award for the best Phd Thesis - GADeS: Gruppo AIMETA di Dinamica e Stabilità - Motivation: *“for the excellent work done in the field of nonlinear dynamics of Atomic Force Microscope, for the detailed and extensive analysis of the bifurcations and control of these interesting and technologically advanced devices, and for the important results obtained with a remarkable personal contribution of the candidate, that certainly will contribute to the advance of knowledge in the field of dynamics and stability of structures and mechanical systems”*

- 2016 CISM - International Centre for Mechanical Sciences - grant for attendance to the CISM-AIMETA School "*Global Nonlinear Dynamics for Engineering Design and System Safety*", June 13–17, Udine, Italy.
- 2015 CISM - International Centre for Mechanical Sciences - grant for attendance to the CISM-AIMETA School "*The Art of Modeling Mechanical Structures*", July 27–31, Udine, Italy.
- 2009 SICON - Stability, Identification and COntrol of Nonlinear dynamical systems - Marie Curie Fellowship for attendance to the Training Course in *Advanced Nonlinear Dynamics and Chaotic Dynamical Systems (TC4)*, March 29–April 4, Lyon, France.
- 2009 SICON - Stability, Identification and COntrol of Nonlinear dynamical systems - Marie Curie Fellowship for attendance to the Training Course in *Vibration Testing, Identification of Linear and Nonlinear Systems (TC5)*, July 6–10, Liège, Belgium.
- 2009 SICON - Stability, Identification and COntrol of Nonlinear dynamical systems - Marie Curie Fellowship for attendance to the SICON Final Conference in *Nonlinear Dynamics, Stability, Identification and Control of Systems and Structures (FC)*, September 21–25, Rome, Italy.

## PART VI - Funding Information

- 2016 University Research Project, Sapienza University of Rome *Innovative integrated approaches for damage identification in buildings*, participant.
- 2015 Startup Research Project, Sapienza University of Rome -prot. 0051269- *Analytical and numerical control of global bifurcations in atomic force microcantilevers*, research leader.
- 2015 PRIN 2015 -No. 2015JW9NJT- *Advanced mechanical modeling of new materials and structures for the solution of 2020 Horizon challenges*, participant.
- 2015 University Research Project, Sapienza University of Rome -prot. C26A15R99X- *Exploring and exploiting nonlinear dynamics to improve processes and design of mechanical/structural systems*, participant.
- 2014 University Research Project, Sapienza University of Rome -prot. C26A144ZXP- *Modeling and nonlinear dynamics-based design of systems and structures from macro- to nano-mechanics*, participant.
- 2013 University AWARDS Project, Sapienza University of Rome -prot. C26H13EFZ4- *Modeling and nonlinear dynamics-based design of systems and structures from macro- to nano-mechanics*, participant.
- 2012 University Research Project, Sapienza University of Rome -prot. C26A12R2L2- *Dinamica nonlineare e controllo di sistemi meccanici e strutturali*, participant.
- 2011 University Research Project, Sapienza University of Rome -prot. C26A11KC9M- *Dinamica nonlineare e controllo di sistemi meccanici e strutturali*, participant.
- 2010 University Research Project, Sapienza University of Rome -prot. C26A104JMP- *Dinamica nonlineare e controllo di sistemi meccanici e strutturali*, participant.
- 2009 University Research Project, Sapienza University of Rome -prot. C26A09KRXA- *Dinamica nonlineare e controllo di sistemi meccanici e strutturali*, participant.

- 2009 Faculty Research Project, Federal University of Human Sciences, Art and Environment, Sapienza University of Rome -prot. C26F09TT89- *Nonlinearit  e complessit  nelle scienze e in architettura*, participant.
- 2008 University Research Project, Sapienza University of Rome -prot. C26A08CZ5J- *Modelli ridotti in dinamica nonlineare e controllo di sistemi strutturali*, participant.

## PART VII - Research Activities

### VIIA - Research Experiences

- 2011 Visiting PhD at the Technion University of Haifa, Israel, with the research group of Professor Oded Gottlieb (September to December).
- 2019 Speaker at the XXIV Congress of the Italian Association of Theoretical and Applied Mechanics (AIMETA 2019), September 15-19, Rome, Italy.
- 2019 Speaker at the International Conference on Nonlinear Solid Mechanics (ICoNSoM 2019), June 16-19, Rome, Italy.
- 2019 Speaker at the First International Nonlinear Dynamics Conference (NODYCON 2019), February 17-20, Rome, Italy.
- 2018 Speaker at the VII Meeting of the AIMETA Dynamics and Stability Group (GADeS 2018), September 20-21, Cagliari, Italy.
- 2018 Invited Speaker at the 9<sup>th</sup> International Conference on Computational Methods (ICCM 2018), August 6–10, Rome, Italy.
- 2018 Speaker at the IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems (ENOLIDES 2018), July 15–19, Novi Sad, Serbia.
- 2018 Speaker at the 10<sup>th</sup> European Solid Mechanics Conference (ESMC 2018), July 2–6, Bologna, Italy.
- 2018 Speaker at the Workshop on Recent Advances on Mechanics, Dynamics Systems, Probability Theory (WMDP 2018), March 5-6, Palermo, Italy.
- 2017 Speaker at the X International Conference on Structural Dynamics (EURODYN 2017), September 10-13, Rome, Italy.
- 2017 Speaker at the XXIII Congress of the Italian Association of Theoretical and Applied Mechanics (AIMETA 2017), September 4-7, Salerno, Italy.
- 2017 Speaker at the 9<sup>th</sup> European Nonlinear Dynamics Conference (ENOC 2017), June 25-30, Budapest, Hungary.
- 2016 Speaker at the V Meeting of the AIMETA Dynamics and Stability Group (GADeS 2016), September 15-16, Brescia, Italy.
- 2016 Speaker at the Third International Conference on Structural Nonlinear Dynamics and Diagnosis (CSNDD 2016), May 23-25, Marrakech, Morocco.
- 2015 Speaker at the XXII Congress of the Italian Association of Theoretical and Applied Mechanics (AIMETA 2015), September 14–17, Genoa, Italy.
- 2015 Speaker at the Euromech Colloquium 562 - Stability and Control of Nonlinear Vibrating Systems, May 24–28, Sperlonga, Italy.

- 2014 Speaker at the III Meeting of the AIMETA Dynamics and Stability Group (GADeS 2014), October 16-17, Florence, Italy.
- 2014 Speaker at the 8<sup>th</sup> European Nonlinear Dynamics Conference (ENOC 2014), July 6-11, Vienna, Austria.
- 2014 Speaker at the XX National Congress in Computational Mechanics (GIMC-GMA 2014), June 11-13, Cassino, Italy.
- 2013 Speaker at the XXI Congress of the Italian Association of Theoretical and Applied Mechanics (AIMETA 2013), September 17-20, Turin, Italy.
- 2012 Speaker at the I Meeting of the AIMETA Dynamics and Stability Group (GADeS 2012), October 19, Rome, Italy.
- 2012 Speaker at the International Conference on Structural Nonlinear Dynamics and Diagnosis (CSNDD 2012), April 30-May 2, Marrakech, Morocco.

### VIIB - Research Interests

The scientific research concerns the analysis of nonlinear mechanical systems at the macro and nano scale, developed by means of analytical and numerical approaches. In particular, the main topics that have been developed are:

- **Noncontact Atomic Force Microscopes (AFM):** (i) Bifurcation scenarios and stability charts to analyze the influence of the most significant parameters (ii) Basins of attraction and erosion profiles to characterize the sensitivity to changes in the system initial conditions and evaluate the dynamical integrity
- **Local control of cantilever vibrations through a feedback technique:** (i) Formulation of a reduced model of noncontact AFM with external feedback control (ii) High order multiple scale asymptotic analysis of the system dynamics and stability in primary resonance condition (iii) Numerical investigation of the strongly nonlinear dynamics to assess the effect of the feedback control on the system response
- **Control of global bifurcations for Hamiltonian and non Hamiltonian systems:** (i) Stable and unstable manifolds of the main saddles of a reduced model of noncontact AFM and detection of the relevant global bifurcations (ii) Analytical control based on Melnikov method of hilltop saddle bifurcations (iii) Development of a numerical control procedure for global bifurcations involving generic saddles to increase the system dynamical robustness
- **Thermomechanical coupling in laminated plates:** (i) Local and global nonlinear dynamics of a reduced model of laminated plate with thermomechanical coupling (ii) Effects of slow-fast dynamics in transient and steady state response under passive and active thermal regimes
- **Electro-magneto-mechanical systems:** (i) Bifurcation scenario and multistability regions of a linear oscillator nonlinearly coupled through a magnet to a linear electric circuit (ii) Analytical investigation by means of high order multiple scale method of the critical and post-critical behavior in electrical resonance conditions
- **Wave propagation in microstructured materials:** (i) Analytical study of wave propagation in a monodimensional homogenized model of bar with distributed microcracks, derived from a generalized continuum formulation which accounts for the microstructure presence by adding a micro-displacement to the standard macro-displacement (ii) Parametric analysis of the damage effects on the behavior of the propagating waves, under free and forced propagation regimes

## PART VIII - Publications

The production consists of 24 scientific publications, divided in 14 international journals, 6 proceedings journals, 2 book chapters and 2 peer-reviewed conference proceedings.

### VIIIA - Bibliometric Indexes

Number of Publications 20 (12 in international journals, 6 in proceedings journals, 2 as book chapter) (source Scopus)

Total Citations 115 (source Scopus), 100 (source Web of Science), 150 (source Google Scholar)

H Index 6 (source Scopus), 6 (source Web of Science), 7 (source Google Scholar)

### VIIIB - International Journals

- 2020 Rega, G., Saetta, E., Settimi, V., Modeling and nonlinear dynamics of thermomechanically coupled composite plates, *International Journal of Mechanical Sciences*, submitted.
- 2020 Rega, G., Settimi, V., Lenci, S., Chaos in Onedimensional Structural Mechanics, *Nonlinear Dynamics*, DOI: 10.1007/s11071-020-05849-3.
- 2020 Settimi, V., Saetta, E., Rega, G., Nonlinear dynamics of a third-order reduced model of thermomechanically coupled plate under different thermal excitations, *Meccanica*, 1–23, DOI: 10.1007/s11012-019-01117-w.
- 2020 Saetta, E., Settimi, V., Rega, G., Minimal thermal modeling of two-way thermomechanically coupled plates for nonlinear dynamics investigation, *Journal of Thermal Stresses*, 43(3): 345–371, DOI: 10.1080/01495739.2019.1704669.
- 2019 Settimi, V., Trovalusci, P., Rega, G., Dynamical properties of a composite microcracked bar based on a generalized continuum formulation, *Continuum Mechanics and Thermodynamics*, 31: 1627–1644, DOI: 10.1007/s00161-019-00761-7.
- 2018 Settimi V., Romeo F., High order asymptotic dynamics of a nonlinearly coupled electromechanical system, *Journal of Sound and Vibration*, 432: 470–483, DOI: 10.1016/j.jsv.2018.06.046.
- 2018 Settimi V., Romeo F., Dynamic regimes of a nonlinearly coupled electromechanical system, *International Journal of Non-Linear Mechanics*, 103: 68–81, DOI: 10.1016/j.ijnonlinmec.2018.04.008.
- 2018 Settimi V., Rega G., Saetta E., Avoiding/inducing dynamic buckling in a thermomechanically coupled plate: a local and global analysis of slow/fast response, *Proceedings of the Royal Society A*, 474: 20180206 (24 pp.), DOI: 10.1098/rspa.2018.0206.
- 2018 Settimi V., Saetta E., Rega G., Local and global nonlinear dynamics of thermomechanically coupled composite plates in passive thermal regime, *Nonlinear Dynamics*, 93: 167–187, DOI: 10.1007/s11071-017-3648-1.
- 2016 Settimi, V., Rega, G., Exploiting global dynamics of a noncontact atomic force microcantilever to enhance its dynamical robustness via numerical control, *International Journal of Bifurcation and Chaos*, 26 (7): 1630018, DOI: 10.1142/S0218127416300184, Feature Article.

- 2016 Settими, V., Rega, G., Global dynamics and integrity in noncontacting Atomic Force Microscopy with feedback control, *Nonlinear Dynamics*, 86(4): 2261–2277, DOI: 10.1007/s11071-016-2620-9.
- 2016 Settими, V., Rega, G., Influence of a locally-tailored external feedback control on the overall dynamics of a noncontact AFM model, *International Journal of Non-Linear Mechanics*, 80: 144–159, DOI:10.1016/j.ijnonlinmec.2015.05.010.
- 2015 Settими, V., Gottlieb, O., Rega, G., Asymptotic analysis of a noncontact AFM microcantilever sensor with external feedback control, *Nonlinear Dynamics*, 79 (4): 2675–2698, DOI: 10.1007/s11071-014-1840-0.
- 2013 Rega, G., Settими, V., Bifurcation, response scenarios and dynamic integrity in a single-mode model of noncontact atomic force microscopy, *Nonlinear Dynamics*, 73: 101–123, DOI: 10.1007/s11071-013-0771-5.

#### VIIIC - Proceedings Journals and Book Chapters

- 2019 Settими, V., Rega, G., Saetta, E., Unveiling transient to steady effects in reduced order models of thermomechanical plates via global dynamics, in *IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems* (Eds. I. Kovacic, S. Lenci), IUTAM Bookseries 37, Springer, DOI: 10.1007/978-3-030-23692-2\_22.
- 2019 Settими, V., Rega, G., Thermomechanical coupling and transient to steady global dynamics of orthotropic plates, in *Problems of Nonlinear Mechanics and Physics of Materials* (Eds. I. V. Andrianov et al.), Springer Series “Advanced Structured Materials”, 94: 483–499, DOI: 10.1007/978-3-319-92234-8\_27, ISBN: 978-3-319-92233-1.
- 2019 Settими, V., Rega, G., Local versus global dynamics and control in a safety perspective, in *Global Nonlinear Dynamics for Engineering Design and System Safety* (Eds. S. Lenci, G. Rega), 588: 229–286, CISM-Springer, DOI: 10.1007/978-3-319-99710-0\_5, ISBN: 978-3-319-99709-4.
- 2017 Saetta E., Settими V., Rega G., Nonlinear vibrations of symmetric cross-ply laminates via thermomechanically coupled reduced order, *Procedia Engineering*, 199: 802–807, DOI: 10.1016/j.proeng.2017.09.078.
- 2017 Settими, V., Rega, G., Response robustness and safety against jump to contact in AFMs controlled via different techniques, *Procedia IUTAM*, 22: 184-191, DOI: 10.1016/j.piutam.2017.08.027.
- 2017 Rega, G., Settими, V., Nonlinear dynamics and control in macro/micro-mechanics: some computational issues, *22<sup>nd</sup> International Conference on Computer Methods in Mechanics*, September 13–16, Lublin, Poland, ISBN: 978-83-7947-264-2.
- 2016 Settими, V., Rega, G., Lenci, S., Analytical control of homoclinic bifurcation of the hilltop saddle in a noncontact atomic force microcantilever, *Procedia IUTAM*, 19: 19–26, DOI: 10.1016/j.piutam.2016.03.005.
- 2014 Settими, V., Rega, G., Controlling local and global dynamics of noncontact atomic force microscopes, In *ENOC 2014 - Proceedings of 8th European Nonlinear Dynamics Conference* (Eds. H. Ecker, A. Steindl, S. Jakubek), Institute of Mechanics and Mechatronics, Vienna University of Technology, ISBN: 978-3-200-03433-4.



- 2012 Settimi, V., Rega, G., Bifurcations, basin erosion and dynamic integrity in a single-mode model of noncontact atomic force microscopy, *MATEC Web of Conferences*, 1: 04006, DOI: 10.1051/mateconf/20120104006.
- 2010 Rega, G., Settimi, V., Nonlinearity in architecture versus science: borrowing the lexicon of complexity or exploiting its powerfulness?, In *Structures and Architecture* (Ed. P. Cruz), 167–174, Taylor & Francis Group, London, ISBN: 978-0-415-49249-2.
- VIIIID - Conferences Abstracts
- 2019 Settimi V., Trovalusci P., Rega G., Dispersion features in a model of elastic bar with microcracks derived from a generalized continuum formulation, *AIMETA 2019 - XXIV Congresso Associazione Italiana di Meccanica Teorica e Applicata*, September 15–19, Rome, Italy.
- 2019 Settimi V., Trovalusci P., Rega G., Wave propagation in a microcracked elastic bar using a generalized continuum formulation, *ICoNSoM 2019 - International Conference on Nonlinear Solid Mechanics*, June 16–19, Rome, Italy.
- 2019 Settimi V., Rega G., Sietta E., Nonlinear dynamic effects of different thermal sources in thermomechanically coupled plate via third-order model, *NODYCON 2019 - First International Nonlinear Dynamics Conference*, February 17–20, Rome, Italy.
- 2018 Settimi V., Sietta E., Rega G., Exploiting global dynamics to investigate the effects of thermomechanical coupling in laminated plates, *ICCM 2018 - 9<sup>th</sup> International Conference on Computational Methods*, August 6–10, Rome, Italy.
- 2018 Settimi V., Rega G., Sietta E., Unveiling transient to steady effects in reduced order models of thermomechanical plates via global dynamics, *ENOLIDES 2018 - IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems*, July 15–19, Novi Sad, Serbia.
- 2018 Settimi V., Romeo F., Dynamic regimes in nonlinearly coupled electromechanical system, *ESMC 2018 - 10<sup>th</sup> European Solid Mechanics Conference*, July 2–6, Bologna, Italy.
- 2018 Rega, G., Settimi, V., The role of global analysis in unveiling the nonlinear response and the actual safety of engineering systems, *Theory and Applications of Nonlinear Dynamics: In Memory of Professor Ali H. Nayfeh*, January 28–29, New York University, Abu Dhabi, United Arab Emirates.
- 2017 Settimi V., Sietta E., Rega G., Effects of the thermomechanical coupling on the nonlinear dynamics of a reduced order model of composite plate, *AIMETA 2017 - XXIII Congresso Associazione Italiana di Meccanica Teorica e Applicata*, September 4–7, Salerno, Italy.
- 2017 Settimi V., Sietta E., Rega G., Passive/active thermal dynamics in the coupled nonlinear vibrations of laminated plates, *ENOC 2017: 9<sup>th</sup> European Nonlinear Dynamics Conference*, June 25–30, 2017, Budapest, Hungary.
- 2016 Settimi, V., Rega, G., Response robustness and safety against jump to contact in AFMs controlled via different techniques, *IUTAM Symposium on Nonlinear and Delayed Dynamics of Mechatronic Systems*, October 17–21, Nanjing, China.



- 2016 Settimi, V., Rega, G., Lenci, S., Global dynamics-based control of a noncontact atomic force microcantilever, *6<sup>th</sup> International Conference on Nonlinear Vibrations, Localization and Energy Transfer*, July 4–8, Liège, Belgium.
- 2016 Settimi, V., Rega, G., Lenci, S., Control of global bifurcations in a noncontact atomic force microcantilever, *International Conference on Structural Nonlinear Dynamics and Diagnosis*, May 23–25, Marrakech, Morocco.
- 2015 Settimi, V., Rega, G., Global dynamics effects of a feedback control of noncontact atomic force microscopy, In *Proceedings of the ASME 2015 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference - IDETC/CIE 2015*, August 2–5, Boston, USA (DETC2015-46461).
- 2015 Settimi, V., Rega, G., Dynamical integrity of noncontact AFM with external feedback control, *Euromech Colloquium 562 – Stability and Control of Nonlinear Vibrating Systems*, May 24–28, Sperlonga, Italy.
- 2015 Settimi, V., Rega, G., Lenci, S., Global control of a noncontact atomic force microcantilever, *AIMETA 2015 - XXII Congresso Associazione Italiana di Meccanica Teorica e Applicata*, September 14–17, Genova, Italy.
- 2015 Settimi, V., Rega, G., External feedback control of a noncontact AFM and its effects on global dynamics, *AIMETA 2015 - XXII Congresso Associazione Italiana di Meccanica Teorica e Applicata*, September 14–17, Genova, Italy.
- 2014 Settimi, V., Rega, G., Numerical Analyses in the Nonlinear Dynamics and Control of Microcantilevers in Atomic Force Microscopy, In *XX Convegno Italiano di Meccanica Computazionale* (Eds. E. Sacco, S. Marfia), June 11–13, Cassino, Italy.
- 2013 Settimi, V., Rega, G., Influence of the external feedback control on the bifurcation and escape scenario of a single-mode model of noncontact AFM. In *AIMETA 2013 - XXI Congresso Associazione Italiana di Meccanica Teorica e Applicata*, September 17–20, Turin, Italy.
- 2013 Rega, G., Andreus, U., Placidi, L., Settimi, V., Nonlinear dynamics of atomic force microscopy, In *Nonlinear Dynamics in Engineering: Modeling, Analysis and Applications* (Ed. M. Wiercigroch), Aberdeen: University of Aberdeen-Centre for Applied Dynamic Research, August 20–23, Aberdeen, Scotland.

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16.

Roma, 4 Agosto 2020

Valeria Settimi