

**PROCEDURA SELETTIVA DI CHIAMATA PER N. 1 POSTO DI RICERCATORE A TEMPO DETERMINATO
DI TIPOLOGIA B PER IL SETTORE CONCORSUALE 08/B2 - SETTORE SCIENTIFICO-DISCIPLINARE
ICAR/08 - PRESSO IL DIPARTIMENTO DI INGEGNERIA STRUTTURALE E GEOTECNICA
DELL'UNIVERSITÀ DEGLI STUDI DI ROMA “LA SAPIENZA” BANDITA CON D.R. n. 3615/2019 DEL
22/11/2019**

ALLEGATO B12 ALL’ALLEGATO B DEL VERBALE 2 BIS - pubblicazioni presentate SETTIMI VALERIA

1. Settimi, V., Trovalusci, P., Rega, G. (2019), Dynamical properties of a composite microcracked bar based on a generalized continuum formulation, *Continuum Mechanics and Thermodynamics*, vol. 31, pp. 1627-1644, DOI: 10.1007/s00161-019-00761-7.
2. Settimi V., Rega G. (2019), 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), CISM Series, Springer, v. 588, pp. 229-286, DOI:10.1007/978-3-319-99710-0_5, ISBN:978-3-319-99709-4.
3. Settimi V., Rega G. (2019), 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”, Springer, v. 94, pp. 483-499, DOI:10.1007/978-3-319-92234-8_27, ISBN:978-3-319-92233-1.
4. Settimi V., Romeo F. (2018), High order asymptotic dynamics of a nonlinearly coupled electromechanical system, *Journal of Sound and Vibration*, vol. 432, pp. 470-483, DOI: 10.1016/j.jsv.2018.06.046.
5. Settimi V., Romeo F. (2018), Dynamic regimes of a nonlinearly coupled electromechanical system, *International Journal of Non-Linear Mechanics*, vol. 103, pp. 68-81, DOI: 10.1016/j.ijnonlinmec.2018.04.008.
6. Settimi V., Rega G., Saetta E. (2018), Avoiding/inducing dynamic buckling in a thermomechanically coupled plate: a local and global analysis of slow/fast response, *Proceedings of the Royal Society A*, vol. 474, p. 20180206 (24 pp.), DOI:10.1098/rspa.2018.0206.
7. Settimi V., Saetta E., Rega G. (2018), Local and global nonlinear dynamics of thermomechanically coupled composite plates in passive thermal regime, *Nonlinear Dynamics*, vol. 93, pp. 167–187, DOI:10.1007/s11071-017-3648-1.
8. Settimi V., Rega G. (2016), Exploiting global dynamics of a noncontact atomic force microcantilever to enhance its dynamical robustness via numerical control, *International Journal of Bifurcation and Chaos*, vol. 26(7), pp. 1630018 (17 pp.), DOI:10.1142/S02181127416300184.
9. Settimi V., Rega G. (2016), Global Dynamics and Integrity in Noncontacting Atomic Force Microscopy with Feedback Control, *Nonlinear Dynamics*, vol. 86(4), pp. 2261–2277, DOI:10.1007/s11071-016-2620-9.

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

Roma, 11 Gennaio 2020