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Selected publications:

G. Garcea , A. Madeo , ' Rational strain measures - The Implicit Corotational Method ' . Proc. Congress ECCM 2006, Lisbon, Portugal, 5-9 June 2006.

G. Garcea, A. Madeo, 'Asymptotic postbuckling analysis of 3D beams using corotational formulation' Università della Calabria, Labmec Report, (2007). www.labmec.unical.it/pubblicazioni/collana.php.
Antonio Madeo (University of Calabria, Italy, PhD dissertation), “The Implicit Corotational Method: General theory and FEM implementation”, November 2008

R. Casciaro, G. Garcea, A. Madeo, 'Elastic postbuckling analysis: how to recover accurate nonlinear structural models from the linear ones'. 8th World Congress on Computational Mechanics, June 30 - July 5 , 2008 Venice, Italy.

G. Garcea, A. Madeo, G. Zagari, R. Casciaro, 'Geometrically nonlinear 3D beam model based on Saint Venánt rod theory'. 8th World Congress on Computational Mechanics, June 30 - July 5 , 2008 Venice, Italy.

G. Garcea, A. Madeo , G. Zagari, R. Casciaro, 'Geometrically nonlinear models based on linear elastic solutions', XVII Convegno Italiano di Meccanica Computazionale (GIMC'08), 10-12 Settembre 2008, Alghero.

Giovanni Garcea, Antonio Madeo, Giuseppe Zagari, and Raffaele Casciaro (Dipartimento di Modellistica per l'Ingegneria, Università della Calabria, 87030 Arcavacata di Rende (Cosenza), Italy), “Asymptotic post-buckling FEM analysis using corotational formulation”, International Journal of Solids and Structures, Vol. 46, No. 2, January 2009, pp. 377-397, doi:10.1016/j.ijsolstr.2008.08.038

G. Garcea, A. Madeo, G. Zagari, 'Implicit Corotational Method: FEM implementation', ESCM 2009, Lisbon

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“Implicit Corotational Method: analysis of slender panels assemblages”, (no publisher or date given. Most recent reference is dated 2009)

G. Garcea, A. Madeo, R. Casciaro, 'The implicit corotational method, Part I: Derivation of nonlinear structural models for beams and plates', Submitted to Computer Methods in Applied Mechanics and Engineering (2009)

G. Garcea, A. Madeo, and G. Zagari (University of Calabria Arcavacata Rende (Cs) Italy), “Geometrically Exact Beam And Plate Models: The Implicit Corotational Method”, 7th EUROMECH Solid Mechanics Conference J. Ambrosio et.al. (eds.) Lisbon, Portugal, 7–11 September 2009

Madeo A, Zagari G, Casciaro R. Anisostatic quadrilateral membrane finite element with drilling rotations and no spurious modes. Finite Elem Anal Des, 2012; 50: 21-32.

Garcea G, Madeo A, Casciaro R. The implicit corotational method and its use in the derivation of nonlinear structural models for beams and plates. J Mech Mat Struct, 2012; 7(6): 509-538.

Garcea G, Madeo A, Casciaro R. Nonlinear FEM analysis for beams and plate assemblages based on the implicit corotational method. J Mech Mat Struct, 2012; 7(6): 539-574.

Zagari G, Madeo A, Casciaro R, de Miranda S, Ubertini F. Koiter analysis of folded structures using a corotational approach. Int J Solids Struct, 2013; 50(1): 755-765.

Madeo A, Zagari G, Casciaro R, de Miranda S. A mixed 4-node 3D plate element based on self-equilibrated isostatic stresses. accepted for publication Int J Struct Stab Dyn, 2013.

Barbero EJ, Madeo A, Zagari G, Zinno R, Zucco G. Koiter asymptotic analysis of folded laminated composite plates. accepted for publication Composites Part B, 2014.

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“Asymptotic post-buckling FEM analysis of laminated composite folded plates”, ECCM-16th European Conference On Composite Materials, Seville, Spain, 22-26 June 2014

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“A mixed isostatic 24 dof element for static and buckling analysis of laminated folded plates”, Composite Structures, vv, xxx-xxx, 2014, The final publication is available at <http://dx.doi.org/10.1016/j.compstruct.2014.05.003>