Claudia Chinosi

Curriculum vitae

BIO AND EDUCATION

Graduated in Mathematics at the University of Pavia in 1976 My scientific interests are mainly devoted to the finite element approximation of partial differential equations. In particular I worked on the following arguments. Approximation of plate bending problems - Kirchhoff and Reissner-Mindlin model. Nonlinear minimum problem. Stokes problem. Fluid-structure interaction problems. Approximation of shell problems - Naghdi and Koiter model. Approximation of functionally graded shells using MITC finite elements. Analysis of BDDC preconditioners for plate and shell problems. Mixed finite lements for the analysis of laminated structures. Approximation of anisotropic multilayered plates through RMVT and MITC elements. Approximation of Kirchhoff plate problems using Virtual Finite Element Methods.

UNIVERSITY CAREER

1998-	Adjunct Professor, Università del Piemonte Orientale
1981-1998	Researcher, Università di Pavia
1977-1981	Research fellow, I.A.N.-C.N.R. Pavia
1977	Lecturer, Università di Pavia

SCIENTIFIC POSITIONS

2014-	Director of the research INDAM unit, Università del Piemonte Orientale

MAIN

1. Approximation of partial differential equations
2. Finite element methods
3. Plate bending problems
4. Shell problems
5. Virtual Element Method

CURRENT ISSUES OF RESEARCH

1. **Title**: Virtual elements for Reissner-Mindlin plates.
2. **Title** Mitc finite elements for anisotropic multilayered plates

TOP FIVE PAPERS

1. Chinosi C., Sacchi G., Scapolla T., A hierarchic family of C^1 finite elements for 4th order elliptic problems, Computational Mechanics,8,181-191 (1991)
2. Chinosi C., Lovadina C., Numerical analysis of some mixed finite element methods for Reissner-Mindlin plates, Computational Mechanics, 16, 36-44 (1995)
3. Chinosi C., Della Croce L., Scapolla T., Hierarchic Finite Elements for Thin Naghdi Shell Model, Int. J. Solids Structures, 35, n.16, 1863-1880 (1998)
4. L.Beirao da Veiga, C. Chinosi, C.Lovadina and L.Pavarino, Robust BDDC preconditioners for Reissner-Mindliln plate bending problems and MITC elements, SIAM J. of Numer. Anal., Vol 47,Issue 6, 4214--4238 (2010).
5. C.Chinosi, M.Cinefra, L.Della Croce, E.Carrera, Reissner's mixed variational theorem toward MITC finite elements for multilayered plates, {\it Composite Structures}, vol.99, 443-452 (2013).