

1. Informatii personale

Numele si prenumele: Chiorean Cosmin-Gruia

Data si locul nasterii:

Pozitia academica in prezent:

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2. Educatie

- 2013 Abilitare (Conducator de doctorat) in domeniul inginerie civila, Universitatea Tehnica de Constructii, Bucuresti.
- 2002 Postdoctorat, Universitatea Nova din Lisabona, Portugalia (2002-2004)
- 2001 Doctor in inginerie civila, Universitatea Tehnica din Cluj- Napoca.
- 1996 Master in inginerie civila, Univ. Tehnica din Cluj- Napoca, Facultatea de Constructii.
- 1999 Universitatea Babes- Bolyai, Facultatea de Matematica, Sectia Informatica, Cluj-Napoca
- 1995 Universitatea Tehnica din Cluj- Napoca, Facultatea de Constructii, Cluj-Napoca
- 1990 Liceul Emil Racovita, Matematica- Fizica, Cluj-Napoca

3. Experienta profesionala

2009-prezent Profesor universitar, (2009-), Universitatea Tehnica din Cluj-Napoca, Facultatea de Constructii: Cercetare stiintifica, conducere de doctorat in domeniul ingineriei civile (modelare si analiza avansata a structurilor), Activitati didactice (Dinamica si Stabilitatea Structurilor, Metode numerice), evaluari academice si institutionale. Responsabil stiintific program masteral cu dubla diploma in ingineria structurilor (Universitatea Bergamo, Italia).

2016-2020 Cercetator stiintific I-Universitatea Babes-Bolyai, Facultatea de Stiinta si Ingineria Mediului, in cadrul proiectului: “*Sisteme inteligente privind siguranța populației prin controlul și reducerea expunerii la radon corelate cu optimizarea eficienței energetice a locuințelor din aglomerări urbane importante din România*” - SMART-RAD-EN, cod MySmis: 103427 <http://www.smartradon.ro/echipa>

2012-prezent Directorul structurii de cercetare: “*Computational Modeling and Advance Simulation in Structural and Geotechnical Engineering*” <https://constructii.utcluj.ro/files/Departamente/Mecon/2019-2020/CMASSGE.pdf>

2011-2020 Director al departamentului de Mecanica Constructiilor din cadrul Facultatii de Constructii, Universitatea Tehnica din Cluj-Napoca.

2007-prezent Cercetator dezvoltare software SC GeoStru Software (www.geostru.eu)- Dezvoltare pachete software in domeniul ingineriei geotehnice si structurale (GFAS-Finite element systems for geotechnical applications; RSLIII-2D-Local Seismic Response of Soils and Structures) <https://www.geostru.eu/product-category/software-en/geotechnical-software/>

2002-2004 Cercetator bursier (postdoctorat), Facultatea de Stiinta si Tehnologie, Departamentul de Inginerie Civila, Universitatea Nova din Lisabona, Portugalia (Studii avansate cu privire la aplicarea metodei elementelor finite in analiza la impact balistic a materialelor compozite).

1996-2001 Doctorand cu frecventa (bursier), Universitatea Tehnica din Cluj-Napoca, Analiza neliniara avansata a structurilor in cadre (analiza statica si dinamica neliniara a structurilor, metoda elementelor finite, metode numerice, informatica aplicata).

4. Zece publicatii selectionate

1. **Chiorean C.G.**, Passera, D., Ferrari R., Rizzi, E., An Implementation for 2nd order M-N-Coupling and Geometric Stiffness Adaptation in Tapered Beam-Column Elements, *Engineering Structures*, **225**, 111241, Elsevier Science, 2020 (Q1).

2. **Chiorean, C.G.**, Second-order Flexibility-Based Model for Nonlinear Inelastic Analysis of 3D Semi-Rigid Steel Frameworks, *Engineering Structures*, **136**: 547-579, Elsevier Science, 2017 (Q1).

3. **Chiorean, C.G.**, Marchis, I.V., A Second-Order Flexibility-Based Model for Steel Frames of Tapered Members, *Journal of Constructional Steel Research*, **132**: 43-71, Elsevier Science, 2017 (Q1).

4. Chiorean C.G., Buru S. Practical Nonlinear Inelastic Analysis Method of Composite Steel-Concrete Beams with Partial Composite Action, *Engineering Structures*, **134**:74-106, Elsevier, 2017 (Q1)
5. R. Moga, R. Cosgarea, S. Buru, C.G. Chiorean, Finite element analysis of the dental pulp under orthodontic forces, *American Journal of Orthodontics and Dentofacial Orthopedics*, Elsevier Science, **155(4)**: 543-551, 2019 (Q2).
6. Chiorean, C.G., A Computer Method for Nonlinear Inelastic Analysis of 3D Composite Steel-Concrete Frame Structures, *Engineering Structures*, **57**: 125-152, Elsevier Science, 2013 (Q1).
7. Chiorean, C.G., Computerised Interaction Diagrams and Moment Capacity Contours for Composite Steel-Concrete Cross-Sections, *Engineering Structures*, **32(11)**: 3734-57, Elsevier Science, 2010 (Q1).
8. Chiorean, C.G., A Computer Method for Nonlinear Inelastic Analysis of 3D Semi-Rigid Steel Frameworks, *Engineering Structures*, **31(12)**: 3016-33, Elsevier Science, 2009 (Q1).
9. Chiorean, C.G., Barsan, G.M., Large Deflection Distributed Plasticity Analysis of 3D Steel Frameworks, *Computers & Structures*, **83 (19-20)**:1555-71, Elsevier Science, 2005 (Q1).
10. Silva, M.A.G., Cismasiu, C., Chiorean, C.G., Numerical Simulation of Ballistic Impact on Composite Laminates, *International Journal of Impact Engineering*, **31 (3)**:289-306, Elsevier Science, 2005 (Q1).

5. Proiecte de cercetare pe baza de grant (selectie)

1. Grantul POC-A1-A1.1.4-E-2015 (P-37-229) finantat ANCSI "Smart Systems for Public Safety through Control and Mitigation of Residential Radon linked with Energy Efficiency Optimization of Buildings in Romanian Major Urban Agglomerations (coordonator Prof. Carlos Sainz Univ. Cantabria, Spania – Universitatea Babes-Bolyai) – responsabil tema: Configurare modele numerice avansate de predicție asistate de experiment, simulare numerică. 2016-2020. <http://www.smartradon.ro/echipa>
2. Grantul PNII-IDEI/193/2008 (Proiecte de cercetare exploratorie) finantat UEFISCDI "Proiectarea si evaluarea performantelor seismice a structurilor in cadre spatiale prin analiza statica neliniara avansata"-2009-2012. <http://users.utcluj.ro/~ccosmin/RESEARCHPROJECT.htm>
3. Grantul POCTI/36055/ECM/2000 finantat de Fundatia pentru Stiinta si Tehnologie (FCT), Portugalia, "Aplicacao de Algoritmos Geneticos e Redes Neurais a Optimizacao e Fiabilidade Estrutural", 2004.-Univ. Nova din Lisabona (coordinator Prof. J.R. Almeida), Facultatea de Stiinta si Tehnologie, Departamentul de Inginerie Civila, Universitatea Nova din Lisabona, Portugalia.
4. Grantul POCTI 43228/EME/2001- finantat de Fundatia pentru Stiinta si Tehnologie (FCT), Portugalia, "Impact on Plates of Composite Materials Protected with Polymeric Mortar", 2002-2004- (coordonator prof. MAG Silva), Facultatea de Stiinta si Tehnologie, Departamentul de Inginerie Civila, Universitatea Nova din Lisabona, Portugalia. Perioada de implementare: 2002-2004.

6. Responsabilitati academice complementare

Membru in Consiliul National de Atestare a Titlurilor si Diplomelor si Certificatelor Universitare (CNATDCU), Comisia de Specialitate Inginerie Civila, (2011-2012; 2016-2019); Membru in Consiliul National al Cercetarii Stiintifice (CNCS), Panelul Stiinte Ingineresti (2012-2013; 2020-); Membru in Consiliul Cercetarii si al CSUD (Consiliul Studiilor Universitare de Doctorat) al Universitatii Tehnice din Cluj-Napoca (2012-2016) si al Universitatii Tehnice de Constructii Bucuresti (2016-2020; 2020-); Editor sef al revistei Acta Technica Napocensis: Civil Engineering & Architecture (2011-2020); Membru in colectivul editorial: Open Civil Engineering Journal, Bentham Science; International Journal of Earthquake and Impact Engineering, InderScience Publisher; Journal of Science and Technology in Civil Engineering, National University of Vietnam; Advances in Architectural Engineering Journal, Korea; Membru in colectivul editorial International Conference on Computational Structures Technology (2012-2020; 2020-), Civil Comp Press, UK; Membru in comitetul stiintific "The international colloquium on stability and ductility of steel structures 2016, 2019"; Evaluator pentru Young Researcher Best Paper Competition "The International Conference on Civil, Structural and Environmental Engineering, Civil Comp Press, UK; Organizator/Chairman International Conferences for PhD Students in Civil Engineering and Architecture, (2012,2014); Referent stiintific (selectie): Computers & Structures (Elsevier); Advances in Engineering Software (Elsevier); Finite Elements in Analysis and Design (Elsevier); Engineering Structures (Elsevier); Journal of Constructional Steel Research (Elsevier); Composite Structures (Elsevier).

Prof. Cosmin G Chiorean

Cluj-Napoca, Martie, 2023