

## 1. Informatii personale

**Numele si prenumele:** Chiorean Cosmin-Gruia

**Data si locul nasterii:** 11 Octombrie 1971, Cluj-Napoca, Romania

**Pozitia academica in prezent:** Profesor Universitar, Univ. Tehnica din Cluj-Napoca

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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.
1997	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

**2016-prezent** Cercetator stiintific I-Universitatea Babes-Bolyai, Facultatea de Stiinta si Ingineria Mediului, in cadrul proiectului: “*Sisteme inteligente privind siguranta populatiei prin controlul si reducerea expunerii la radon corelate cu optimizarea eficientei energetice a locuintelor din aglomerari urbane importante din Romania*” - SMART-RAD-EN Nr. contract: 22/01.09.2016, cod proiect: ID P\_37\_229, cod MySmis: 103427 <http://www.smartradon.ro/echipa>

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

**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).

**2007-prezent** Cercetator dezvoltare software SC GeoStru Software ([www.geostru.eu](http://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.**, Second-order Flexibility-Based Model for Nonlinear Inelastic Analysis of 3D Semi-Rigid Steel Frameworks, *Engineering Structures*, **136**: 547-579, Elsevier Science, 2017. FI: 3.084.

2. **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. FI: 2.65

3. **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. FI: 3.084

4. 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. FI: 1.911.
5. **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. FI: 3.084.
6. **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. FI: 3.084.
7. **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. FI: 3.084.
8. **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. FI: 3.354.
9. 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. FI: 3.173.
10. Barsan, G.M., **Chiorean, CG**. Computer Program for Large Deflection Elasto-Plastic Analysis of Semi-Rigid Steel Frameworks, *Computers & Structures*, **72(6)**: 699-711, Elsevier Science, 1999. FI: 3.354.

### **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 de CNCISISUEFISCDI "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 Neuronais 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, Comisia de Specialitate Inginerie Civila, (2011-2012; 2016-2019); Membru in Consiliul National al Cercetarii Stiintifice (CNCS), Panelul Stiinte Ingineresti (2012-2013); Director al departamentului de Mecanica Constructiilor din cadrul Facultatii de Constructii din Cluj-Napoca (2011-2015; 2015-2020). 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); Editor sef al revistei Acta Technica Napocensis: Civil Engineering & Architecture (2011-); Membru in colectivul editorial al revistelor: Open Civil Engineering Journal, Bentham Science; International Journal of Earthquake and Impact Engineering, InderScience Publisher; Membru in colectivul editorial International Conference on Computational Structures Technology (2012-2020), 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, Aprilie 2020