

## Lista de lucrari

**Universitatea Tehnică din Cluj-Napoca**

**Facultatea Constructii**

**Departamentul Structuri**

**Asist. dr. ing. Pop Maria**

### I. Teza de doctorat

**“Contribuții privind comportarea elementelor mixte oțel-beton la structuri înalte”**

**Conducător științific: Prof.dr.ing Kiss Zoltan UTCN Cluj – Napoca, 20.06.2017**

### II. Lucrări publicate

1. Cristina Campian, Maria Pop, Chira Nicolae, „Numerical study of steel-concrete composite columns with high strength concrete” The seventh International Conference Civil Engineering - Science & Practice, ISBNH 978-86-82707-32-5, 2020, Kolasin, Montenegro [conferinta internationala]
2. Cristina Campian, Maria Pop, Chira Nicolae, “Parametric study in composite joints configuration” 15th International Conference on Computational Civil Engineering Conference, IOP Publishing, ISBN 17578981, 2019, Iasi [ISI Proceeding]
3. Cristina Campian, **Pop Maria**, Chira Nicolae, “Finite element modelling of different strengthening strategies for reinforced concrete deep beams”, 15th International Conference on Computational Civil Engineering Conference, CCE 2019, IOP Publishing, 2019, Iasi, ISBN 17578981 [ISI Proceeding]
4. Cristina Campian, **Pop Maria**, “ANALIZA SOLUTIEI DE REABILITARE A UNEI STRUCTURI METALICE EXISTENTE”, CONFERINȚĂ NAȚIONALĂ DE CONSTRUCȚII METALICE (CM16-2019), Editura Orizonturi Universitare [Conferinta Nationala]
5. **Pop Maria**, Cristina Campian, Chira Nicolae, “HYBRID JOINT TESTING PROGRAM. TESTING OF COMPONENT MATERIALS”, SGEM VIENNA GREEN 2018 SESSIONS, Elsevier, ISBN 1314-2704, pg 1332-1343, 2018 [SCOPUS]
6. Campian Cristina, **Maria Pop**, Anca Popa, Seismic Retrofitting of an existing steel structure – 17th International Multidisciplinary scientific Geo Conference&Expo SGEM 2017, Bulgaria, Editura Cope s, ISBN 978-619-7105-06-3 [SCOPUS]
7. Campian Cristina, **Maria Pop**, Anca Popa, Kiss Zoltan – Hybrid Joint Configuration for Composite Structures 17th International Multidisciplinary scientific Geo Conference&Expo SGEM 2017, Bulgaria, Editura Cope s, ISBN 978-619-7105-06-3 [ISI Proceeding]
8. Cristina Campian, **Maria Pop**, Chira Nicolae, The influence of the connections between concrete and steel on the joints modelling, - Eurosteel, Copenhaga, Danemarca, 2017, The Technical

University of Denmark (DTU) and the Danish Steel Institute (DSI), ISBN 978-3-433-02916-9, pg. 4280-4687 [ISI Proceeding]

9. **Pop Maria**, Cristina Campian, Kiss Zoltan, "Hybrid Joint Configuration of Composite Structures", ISBN 1314-2704, pg. 2368-2760 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Publication Ethics COPE's Berst Practice, Bulgaria [ISI Proceeding]
10. Cristina Campian, Nicolae Chira, Vincentiu Iuhos, **Maria Pop**, Nikolai Vatin, Structural Upgrading of Steel Columns for Overhead Power Lines, Elsevier Procedia Engineering, Volume 165, ISSN 1877-7058, pg 876-882, Russia, St. Petersburg [ISI Proceeding]
11. Cristina Campian, Zsolt Nagy, **Maria Pop**, *Behavior of fully encased Steel – concrete Composite Columns Subjected to Monotonic and Cyclic Loading*, International Scientific Conference Urban Civil Engineering and Municipal Facilities, Elsevier, Procedia Engineering, Vol 117, pg.439-451, ISSN: 1877-7058 2016 [ISI Proceeding]
12. Cristina Campian, Vincentiu Iuhos, Vasile Pacurar, **Pop Maria**, *Probleme specifice privind proiectarea si expertizarea stalpilor metalici pentru liniile electrice aeriene (lea) de inalta tensiune*, Construieste cu „STEEL” Lucrarile celei de-a XIV – a Conferinte Nationale de Constructii Metalice, Cluj Napoca, 19-20 Noiembrie 2015, IsbN 978-973-713-286-4 [Conferinta Nationala]
13. **Maria Pop**, Kiss Zoltan, Paul Pernes, *Joint Configuration of Composite Beams to Reinforced Concrete Wall*, Elsevier, Procedia Technology, Vol. 22, ISSN: 2212-0173, 2016 [ISI Proceeding]
14. Cristina Campian, **Maria Pop**, *Methods for elimination of dampness in Building walls*, IOP Conference Series: Materials Science and Engineering, Vol 133, 012049 doi:10.1088/1757-899X/133/1/012049, 2016 [ISI Proceeding]
15. Cristina Campian, Vincentiu Iuhos, **Maria Pop**, Chira Nicolae, *Retrofitting of existing industrial buildings*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, pg. 695-702, Vol 5, ISBN 978-619-7105-66-7 / ISSN 1314-2704 [BDI, B+]
16. Cristina Campian, Chira Nicolae, **Maria Pop**, Paul Pernes, *Holistic Approach on a life cycle of a building – 5<sup>th</sup> International U.A.B. – B.E.N.A. Conference*, Alba Iulia 28-30 Mai, 2015 pg.47 [conferinta internationala]
17. Cristina Campian, Chira Nicolae, **Maria Pop**, *A Holistic Approach to a Sustainable Steel Building*, Key Engineering Materials Vol. 660 (2015) pp 202-207 Submitted: 2015-05-12© (2015) Trans Tech Publications, Switzerland Accepted: 2015-05-20doi:10.4028/www.scientific.net/KEM.660.202 [BDI, B+]
18. **Maria POP**, Cristina CAMPIAN, Petru COSOBEA, Mihai SENILA: "Variaton of stress concentration around rectangular holes in steel slabs" –Second International Conference for PhD Students in Civil Engineering and Architecture, UTPRESS, ISSN-L 2392 – 9693,2014, Cluj Napoca, pg. 230-236 [conferinta internationala]
19. Cristina Campian, Zsolt Nagy, **Maria Pop**, Paul Pernes, *Sustainable Buildings*, 5<sup>th</sup> International U.A.B. – B.E.N.A. Conference, Alba Iulia 28-30 Mai, 2015 pg.46 [conferinta internationala]
20. Cristina CAMPIAN, Alina Haupt-Karp, **Maria POP**, Gabriel Urian, Nicolae CHIRA, Paul M. Pernes: " Behavior of fully encased steel-concrete composite columns subjected to monotonic and cyclic loading "- Journal of Applied Engineering Science, ISSN 1451-4117, 2014, vol. 12, iss. 1, pp. 81-88 [BDI, B+]

21. Alina Haupt-Karp, Nicolae CHIRA, Cristina CAMPIAN, Gabriel Urian, **Maria POP**, Paul PERNES: "Evaluation of seismic performances for composite frames"- 5<sup>th</sup> International Conference civil engineering-Science and practice, Zabljak, 17-21 February 2014, ISBN 978-86-82707-23-3, pg.637-645 [conferinta internationala]
22. **Maria POP**, Victor POP, Cristina CAMPIAN, Paul PERNES: "Geometric discontinuities in bent bars. Stress concentration in bent bars of sections with sudden changes"- 5<sup>th</sup> International Conference civil engineering-Science and practice, Zabljak, 17-21 February 2014, ISBN 978-86-82707-23-3, pg.301-307 [conferinta internationala]
23. Cristina CAMPIAN, Alina Haupt-Karp, **Maria POP**, Gabriel Urian, Nicolae CHIRA, Paul M. Pernes, *Behavior of fully encased steel-concrete composite columns subjected to monotonic and cyclic loading*, 5<sup>th</sup> International Conference civil engineering-Science and practice, Zabljak, 17-21 February 2014, ISBN 978-86-82707-23-3, pg.27-35 [conferinta internationala]
24. Victor POP, **Maria POP**, *Variation of stress concentration around rectangular holes. Influence of joints types between the sides of rectangular holes*, Acta Technica Napocensis: Civil Engineering & Architecture Vol. 56, No. 1, (2013) [BDI, B+]
25. Victor POP, **Maria POP**, Petru Cosobeia, *Finite element method for the stress concentration factor in plates with holes*, Acta Technica Napocensis: Civil Engineering & Architecture Vol. 56, No. 1, (2013) [BDI, B+]
26. Cristina Campian, Alina Haupt-Karp, Nicolae Chira, **Maria Pop**, *Comments on the q behavior factor for steel – concrete composite columns*, Design Fabrication and Economy of Metal Structures 2013 Miskolc April, 2013, pg.563-569 ISBN 978-3-642-36690-1 Editura Springer – Verlag Berlin Heidelberg [BDI, B+]
27. Victor POP, Radu HULEA, **Maria POP**, Advances in Civil Engineering and Building Materials."Parametric studies in plates with holes for stress concentration factor" pg.835-841 Chang,CRC Press/Balkema Al Bahar & Zhao (Eds) © 2013 Taylor & Francis Group, London, ISBN 978-0-415-64342-9 [BDI, B+]
28. **Maria POP**, Cristina CAMPIAN, Nicolae CHIRA, *Consideration regarding different systems of steel bracing for an industrial steel building*, 4<sup>th</sup> International Conference civil engineering-Science and practice, Zabljak, Muntenegru 20-24 February 2012, ISBN 978-86-82707-21-9 [conferinta internationala]
29. O. Corbu, H. Szilagyi ,D. Moldovan, **M. Pop**, *Betonul cu pulberi active armate cu fibre din otel*, Final\_Urban Incerc INCD, Bucuresti , Vol.3, nr.4/2012, ISSN: 2069-0509 [conferinta internationala]
30. **Maria POP**, Cristina CAMPIAN, Victor POP, Daniel SUCIU, *BRBF - Buckling restrained braced frames design method and analysis*, 4<sup>th</sup> International Conference civil engineering-Science and practice, Zabljak, Muntenegru, 20-24 February 2012, ISBN 978-86-82707-21-9 [conferinta internationala]
31. Victor POP, Radu HULEA, **Maria POP**, *Parametric studies in plates with holes for stress concentration factor*, 2nd International Conference on Civil Engineering and Building Materials, 17-18 Nov 2012, Hong Kong, China ISBN 978-0-415-64342-9 [BDI, B+]
32. O. Corbu,H. Szilagyi ,D. Moldovan, **M. Pop**, *Facing crisis: A glass by-products solution* The 8<sup>th</sup> Central European Congress on Concrete Engineering 4-6October,2012, pag. 297-302, Plitvice Lakes, Croatia, ISBN 978-953-7621-14-8, SECON HDGK [BDI, B+]

33. Alina Haupt-Karp, Cristina Campian, Gabriel Urian, **Maria Pop**, *Evaluation comments on the q behavior factor for Steel-concrete composite columns*, First International Conference for Phd students in Civil Engineering, CE-PhD 2012, 4-7 November 2012, Cluj-Napoca, Romania, ISBN 978-973-757-710-8, Editura Eikon [conferinta internationala]
34. Alina Haupt-Karp, Gabriel Urian, Cristina Campian, **Maria Pop**, *Reinforcing solutions on existing crane beams in a steel warehouse*, Design Fabrication and Economy of Metal Structures 2013- Miskolc April, 2013 ISBN 978-3-642-36690-1 pg.443-449 Editura Springer – Verlag Berlin Heidelberg [BDI, B+]
35. Paul M. Pernes, Zsolt Nagy, Cristina Campian, **Maria Pop**, *Optimized sections for cold formed steel channel profiles under compression and bending according tu EN1999-1-3*, Acta Technica Napocensis – Civil Engineering & Arhitecture Vol.55, No.3 2012,pg.244-250, ISSN 1221-5848 [BDI, B+]

### III. Carti publicate si materiale didactice (lucrari de laborator)

- EFFECTIVE COLD-FORMED SECTIONS. DESIGN EXAMPLES FOR SECTIONS „C” AND „Z” – Pernes Paul, Maria Pop și Cristina Campian, Editura UTPRESS, UTPRESS, Cluj - Napoca, 2021, ISBN 978-606-737-548-0
- Lucrari de laborator:
  - Pop M - Anul IV CCCIA (format electronic) – Structuri mixte otel-beton: Grinda mixta otel-beton
  - Pop M - Anul IV CCCIA (format electronic) Structuri mixte otel-beton – Stalp mixt otel-beton
  - Pop M - Anul IV CCCIA (format electronic) Structuri mixte otel-beton – Dala mixta otel-beton
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### IV. Participari in colective de cercetare si de dezvoltare a carierei

- Membru in echipa proiectului EUt+ “ Universitatea Europeana a Tehnologiei”, EAC-A02-2019/EAC-A02-2019-1, anul 2021 , European Higher Education pe pachetele de lucru 5.4 și 1.4.
- Mentor in cadrul proiectului FDI-2021-0270; "Reducerea riscului de abandon și motivare", 2021
- Expert invatamant in cadrul proiectului FDI-2021- 0193“Internationalizarea – factor de transformare sistemică a Universității Tehnice din Cluj-Napoca”, 2021
- Membru in echipa de cercetare: SMART STRUCTURES AND MATERIALS FOR BUILDINGS

- Membru în echipa de cercetare: "Concepția structurală și proiectarea de bază a controlului de cedare a structurilor multietajate supuse la acțiuni accidentale", PNII PCCA55./2012
- Membru în echipa de cercetare: "Siguranta la explozie a peretilor de închidere a cladirilor" (Safety of buildings walls and claddings against accidental explosions), PN-III-P2-2.1-PED-2019
- Membru în echipa a proiectului: ROSE - Consiliere academică și de orientare în cariera viitorului inginer constructor, în vederea reducerii ratei de abandon (ORCA\_CONS) grant nr. : AG 241/SGU/NC/II, 2018-prezent
- Participare în programul de dezvoltare a carierei universitare DIDATEC, POSDRU/87/1.3/S/60891, 2013-2014
- Participare în programul: Dezvoltarea și implementarea soluțiilor software pt imbunatatirea proceselor și activitatilor educationale. Managementul universitar superior prin aportul tehnologiei informației, POSDRU/86/1.2/S/61916, 2012

#### V. Premii obținute

- Cristina Campian, Maria Pop, Diploma of Bronze Medal “ Composite steel-composite columns” EuroInvent Iasi – Romania 10th European Exhibition of Creativity and Innovation, 16-18 Mai, 2019
- Cristina Campian, Maria Pop, Diploma of Bronze Medal “ A new solution for the retrofitting steel structures” Pop EuroInvent Iasi – Romania, 37 Mai, 2017
- Maria Pop, Cristina Campian, Kiss Zoltan „ Hybrid joint configuration for steel-concrete composite structures” Diploma of Bronze Medal , EuroInvent, 19-21 Mai, 2016

#### VI. Editorial team si reviewer reviste de specialitate

- Editorial team in Revista: Materials Science: Advanced Composite Materials – Whoice publishing PTE.LTD (<https://ojs.whioce.com/index.php/msacm/about/editorialTeam>)
- Reviewer 6 articole la publicatiile MDPI: 2(Materials), 1(Senzors), , 1(Metals), a (Applied Science), 1 (Fractal Fracture) (<https://publons.com/researcher/4149699/maria-pop/>)

**VII. Activitate in comisii permanente la nivel departament/facultate/universitate**

- Secretar in Comisia de Examen de disertatie la Masterul Proiectarea Avansata a Structurilor din Lemn si Metal, sectia Baia Mare (2018-prezent) (comisie la nivel de departament/facultate)
- Secretar in Comisia de Examen de licenta la specializarea Constructii Cvile Industriale și Agricole, secția Baia Mare (2018-prezent) (comisie la nivel de departament/facultate)

**VIII. Activitati de coordonare proiecte licenta si disertatie**

- Coordonator de proiecte de licenta specializarea CCIA și la secția cu predare in limba engleza.

Data,  
Ianuarie, 2022

Asist.dr.ing Pop Maria Ileana

