

LISTĂ COMPLETĂ DE LUCRĂRI

A. LISTĂ 10 LUCRĂRI ȘTIINȚIFICE RELEVANTE

1. Ciutina A., Dubina D., Danku G., Senila M., Petran I. - "Influence of the connection between steel and concrete on the seismic behaviour of steel EBF", 7th European Conference on Steel and Composite Structures, EUROSTEEL 2014, September 10-12, 2014, Napoli, Italy, DOI:10.13140
2. Marginean, I., Dinu, F., Dubina, D., Petran, I., Senila, M., Szilagyi, H. - „Numerical modeling of dynamic response of steel moment frames following sudden column loss, The International Colloquium on Stability and Ductility of Steel Structures, SDSS'2016”, 30 mai – 01 iunie 2016, Timisoara, Romania, pg. 717-724 ISBN(ECCS): 978-92-9147-133-1
3. Senila M., Sigauan A., Marginean I., Dinu F. - “Numerical models for steel and composite eccentrically braced frames under seismic actions” - 5th International Conference on INTEGRITY - RELIABILITY – FAILURE Porto - Portugal, 24-28 July 2016, WOS:000388368100221, ISBN:978-989-98832-5-3
4. Senila M., Petran I. - “Development of plastic hinges in steel and composite beams of eccentrically braced frames”, INTERSECTII/INTERSECTIONS 13(1), 75-84, 2016, “Computational Civil Engineering 2015”, International Symposium Iasi, Romania, May 22, 2015
5. Senila M., Sigauan A., Petran I. - “Comparison between behavior of steel and composite eccentrically braced frames with long links” - XIII INTERNATIONAL CONFERENCE ON METAL STRUCTURES Zielona Góra, 15-17 June 2016, pg. 114, WOS:000385792700027, ISBN:978-1-315-62319-1; 978-1-138-02946-0
6. Senila M., Handabut A., Crisan A., Petran I - “Experimental Studies Regarding the Influence of the Connection between Steel and Concrete in Case of Eccentrically Braced Frames” - 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, 23-24 March 2017, Oradea, pg. 245-250, WOS:000413420300043, ISBN: 978-88-87729-41-2
7. Senila M., Petran I. - “Plastic hinges in steel and composite eccentrically braced frames with long links” - 17th International Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MAR 22-23 2018, pg. 357-362, WOS:000491484600062, ISBN:978-88-87729-49-8

8. Dinu F., Marginean I., Petran I., Senila M., Neagu C., Dubina D. - "Development of alternate load paths in steel frames with composite beams subject to accidental explosions" - Proceedings IRF2018: 6th International Conference on Integrity-Reliability-Failure Lisbon/Portugal, 22-26 July 2018, pg. 581-582, WOS:000476865900115, ISBN:978-989-20-8313-1
9. Senila M., Petran I., Neagu C., Dinu F. - "Numerical Studies on seismic response of steel and composite eccentrically braced frames" - Proceedings IRF2018: 6th International Conference on Integrity-Reliability-Failure Lisbon/Portugal, 22-26 July 2018, pg. 583-584, WOS:000476865900116, ISBN:978-989-20-8313-1
10. Senila M., Petran I. - "Influence of the composite action for EBF with long dissipative links" - Steel and Composite Structures (SCS) - revizuită și acceptată la publicare, 2021

B. Teza de doctorat

1. Senila RM. - "Studiul formării articulațiilor plastice în barele disipative lungi ale cadrelor cu grinzi compozite contraavântuite excentric". Teza de doctorat. Universitatea Tehnică din Cluj-Napoca, Iunie 2015.

C. Cărți, Capitole

1. Petran I., Senila M. - "DESIGN OF PITCHED ROOF STEEL PORTAL FRAME STRUCTURE", Editura Mediamira, ISBN: 978-973-713-359-5, Cluj-Napoca, România, 2017

D. Lucrări științifice publicate în reviste de prestigiu sau volume ale manifestărilor naționale sau internaționale

1. Sav, Senila M., Bogdan T. - "Analiza modurilor de cedare la stalpi cu secțiune mixta" A X-a Conferința multidisciplinară cu participare internațională, Sebes, 4-5 iunie 2010, pp. 307, ISSN 2067-7138
2. V. Sav, C. Campian, M. Senila, H. Constantinescu - "Composite Steel – Concrete Columns with High Strength Concrete versus Normal Strength Concrete", Proceedings of

seminar build with steel 2011, may 20-21, Cluj-Napoca, Romania, pp. 145-155, ISBN 978-973-713-286-4

3. Maria Pop, Cristina CAMPIAN, Petru COSOBEA, Mihai SENILA - "Variation of stress concentration around rectangular holes in steel slabs" –Second International Conference for PhD Students in Civil Engineering and Architecture, ISSN-L 2392 – 9693, 2014, Cluj Napoca, pg. 230-236
4. Ciutina A., Dubina D., Danku G., Senila M., Petran I. - "Influence of the connection between steel and concrete on the seismic behaviour of steel EBF", 7th European Conference on Steel and Composite Structures, EUROSTEEL 2014, September 10-12, 2014, Napoli, Italy DOI:10.13140
5. F. Dinu, I. Marginean, D. Dubina, I. Petran, M. Pastrav, A. Handabut, M. Senila - "Proiectarea imbinarilor grinda-stalp ale structurilor in cadre metalice pentru prevenirea colapsului progresiv in cazul producerii unor actiuni accidentale", Cea de a XXV-a conferinta nationala AICPS, 2015
6. F. Dinu, M. Pastrav, A. Ciutina, D. Dubina, I. Petran, I. Marginean, A. Sigauan, M. Senila. - "Contribuția planșeului la dezvoltarea căilor alternative de transfer la structuri în cadre metalice multietajate supuse la cedări locale" - "Construieste cu STEEL" A 14-A CONFERINTA NATIONALA DE CONSTRUCTII METALICE 19-20 Noiembrie 2015", pg 269
7. Dan Dubina, Adrian Ciutina, Gelu Danku, Mihai Senila, Ioan Petran - "Influenta conexiunii din otel si beton asupra comportamentului seismic al cadrelor duale" - "Construieste cu STEEL" A 14-A CONFERINTA NATIONALA DE CONSTRUCTII METALICE 19-20 Noiembrie 2015", pg. 709
8. Marginean, I., Dinu, F., Dubina, D., Petran, I., Senila, M., Szilagyi, H.: „Numerical modeling of dynamic response of steel moment frames following sudden column loss, The International Colloquium on Stability and Ductility of Steel Structures, SDSS'2016”, 30 mai – 01 iunie 2016, Timisoara, Romania, pg. 717 ISBN(ECCS): 978-92-9147-133-1
9. Mihai Senila, Andreea Sigauan, Ioan Marginean, Florea Dinu - "Numerical models for steel and composite eccentrically braced frames under seismic actions" - 5th International Conference on INTEGRITY - RELIABILITY – FAILURE Porto - Portugal, 24-28 July 2016, WOS:000388368100221, ISBN:978-989-98832-5-3
10. M Senila, I Petran - "Development of plastic hinges in steel and composite beams of eccentrically braced frames", INTERSECTII/INTERSECTIONS 13(1), 75-84, 2016, "Computational Civil Engineering 2015", International Symposium Iasi, Romania, May 22, 2015
11. M. Șenilă & A. Șigăuan & I. Petran - "Comparison between behavior of steel and composite eccentrically braced frames with long links" - XIII INTERNATIONAL

CONFERENCE ON METAL STRUCTURES Zielona Góra, 15-17 June 2016, pg. 114, WOS:000385792700027, ISBN:978-1-315-62319-1; 978-1-138-02946-0

12. Senila M., Handabut A., Crisan A., Petran I. - "Experimental Studies Regarding the Influence of the Connection between Steel and Concrete in Case of Eccentrically Braced Frames" - 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, 23-24 March 2017, Oradea, pg. 245-250, WOS:000413420300043, ISBN: 978-88-87729-41-2
13. Senila M., Petran I. - "Plastic hinges in steel and composite eccentrically braced frames with long links" - 17th International Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MAR 22-23 2018, pg. 357-362, WOS:000491484600062, ISBN:978-88-87729-49-8
14. Dinu F., Marginean I., Petran I., Senila M., Neagu C., Dubina D. - "Development of alternate load paths in steel frames with composite beams subject to accidental explosions" - Proceedings IRF2018: 6th International Conference on Integrity-Reliability-Failure Lisbon/Portugal, 22-26 July 2018, pg. 581-582, WOS:000476865900115, ISBN:978-989-20-8313-1
15. Senila M., Petran I., Neagu C., Dinu F. - "Numerical Studies on seismic response of steel and composite eccentrically braced frames" - Proceedings IRF2018: 6th International Conference on Integrity-Reliability-Failure Lisbon/Portugal, 22-26 July 2018, pg. 583-584, WOS:000476865900116, ISBN:978-989-20-8313-1
16. Mihai Șenilă, Ioan Petran - "Formarea articulațiilor plastice la cadrele din oțel și mixte oțel-beton, contravântuite excentric cu bare disipative lungi" A 16-a CONFERINȚĂ NAȚIONALĂ DE CONSTRUCȚII METALICE TIMIȘOARA/ 13 și 14 iunie 2019
17. Senila M., Petran I. - "Influence of the composite action for EBF with long dissipative links" - Steel and Composite Structures (SCS) - revizuită și acceptată la publicare, 2021

E. Contracte de cercetare

Director proiect

1. Siguranța la explozie a pereților de închidere ai clădirilor (Safety of buildings walls and claddings against accidental explosions) SAFE-WALL" PN III: Programul 2 - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare, Tip proiect: Proiect experimental – demonstrativ, Nr. contract: 279PED/2020, Nr. proiect: PN-III-P2-2.1-PED-2019-1765

Membru în echipă

1. “Concepția structurală și proiectarea pe baza controlului mecanismului de cedare a structurilor multietajate supuse la acțiuni accidentale (CODEC)” Nr. contract: PN II nr. PCCA 55/2012
2. „Clădiri inteligente adaptabile la efectele schimbărilor climatice” PNIII 30 PCCDI 2018

F. Materiale didactice, lucrări de laborator

1. Șenilă M. – Curs Structuri Metalice I, An III, CCIA, format electronic (slide-uri), 2020
2. Șenilă M. – Lucrare de laborator nr. 1, Îmbinare grindă secundară - grindă principală cu șuruburi obișnuite, Structuri Metalice I, An III, CCIA
3. Șenilă M. – Lucrare de laborator nr. 2, Îmbinare rigidă cu placă de capăt extinsă grindă – stâlp cu șuruburi obișnuite, Structuri Metalice I, An III, CCIA
4. Șenilă M. – Lucrare de laborator nr. 3, Îmbinare continuizare grindă rulare cu șuruburi de înaltă rezistență pretensionate, Structuri Metalice I, An III, CCIA

Asist.dr.ing. Roland Mihai Șenilă

