

## Academic Publications

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### A – Ph.D Thesis

„Underground Houses”

Scientific Supervisor: Prof.PhD.Eng Ioan POP

Technical University of Cluj-Napoca

Publicly defended: 10.10.2014.

### B – Books and chapters in books

#### **b1) Books**

1. Moldovan MS, **Moldovan IM**, Moldovan SV – *Clădiri înalte. Evoluție. Implementare (Tall Buildings. Evolution. Implementation)*, UTPRESS, Cluj-Napoca, 2012, 470 pag.
2. Andreica H-A, Munteanu C, **Mureșanu IM**, Moga L, Tămaș-Gavrea R – *Construcții Civile (Civil Buildings)*, UTPRESS, Cluj-Napoca, 2009, 590 pag.

### C – Indexed scientific papers ISI/BDI

#### **c1) Papers / studies in internationally renowned publications (ISI and ISI Proceedings)**

1. **Moldovan IM**, Moldovan SV, Ilieș NM - *Invisible architecture – Sustainable underground architecture*, International Multidisciplinary Scientific GeoConference-SGEM, Nano, Bio and Green - Technologies for a Sustainable Future Conference Proceedings, SGEM 2016, VOL III, 2016, p.555-560, **ISSN: 1314-2704**
2. **Moldovan IM**, Moldovan SV, Ilieș NM - *Suburbia – From transition architecture to contemporary residential developments in Romania*, International Multidisciplinary Scientific GeoConference-SGEM, Nano, Bio and Green - Technologies for a Sustainable Future Conference Proceedings, SGEM 2016, VOL III, 2016, p.639-646, **ISSN: 1314-2704**
3. **Moldovan IM**, Moldovan SV, Ilieș NM - *Rural Romanian housing degradation – effect of land restitution and unemployment rates*, Agriculture and Agricultural Science Procedia - 5th International Conference - Agriculture for Life, Life for Agriculture, 2016, p.438-443, **ISSN: 2210-7843**
4. **Moldovan IM**, Ilieș NM, Moldovan SV - *The reinvention of the traditional home “bordei” and its impact on the rural landscape and environment*, Agriculture and Agricultural Science Procedia - Conference Agriculture for Life, Life for Agriculture, 2015, p.479-485, **ISSN: 2210-7843**
5. Ilieș NM, Fărcaș VS, Coț RV, **Moldovan IM** - *The control of natural disaster caused by slopes sliding by means of stepped buildings*, Procedia Technology - 9TH International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, p.391-398, **ISSN: 2212-0173**
6. **Moldovan IM**, Moldovan SV, Ilieș NM - *Towards sustainable architecture: Underground and semi-buried houses versus conventional houses*, International Multidisciplinary Scientific GeoConference-SGEM - Nano, Bio and Green - Technologies for a Sustainable Future, Vol II (SGEM 2015), p.607-613, **ISSN: 1314-2704**

7. **Moldovan IM**, Moldovan SV, Iliș NM – *Earth-sheltered and underground homes as alternatives for the unfortunate post-communist residential developments*, International Multidisciplinary Scientific GeoConference-SGEM - Nano, Bio and Green - Technologies for a Sustainable Future, Vol II (SGEM 2015), p.421-428, ISSN: 1314-2704
8. Iliș NM, **Moldovan IM**, Moldovan SV -*Improving the stability of slopes with the aid of underground houses*. Procedia Technology - 8th International Conference Interdisciplinarity in Engineering, INTER-ENG 2014. p.363-370, ISSN: 2212-0173
9. **Moldovan IM**, Moldovan SV, *Structural systems influence the aesthetics of skyscrapers*, Journal of Applied Engineering Sciences, University of Oradea Publishing House, Volume 1 (14), Issue 4/2011 Oradea, ROMANIA, p.117-122, ISSN 2247 – 3769

**c2) Studies published in conferences indexed in reference international data bases for Civil Engineering, Architecture and Urban Planning**

1. Iliș NM, **Moldovan IM**, Moldovan SV - *Geotechnical behavior of underground house models*, Proceedings of the XVII European Conference on Soil Mechanics and Geotechnical Engineering, 1-6 September 2019, Reykjavik, Iceland [SCOPUS], [GoogleScholar]
2. **Moldovan IM**, Moldovan SV, Iliș NM, Berindean AD – *Vernacular underground homes as source of inspiration for contemporary residential green design* - SGEM VIENNA GREEN 2018 SESSIONS, 3-6 decembrie 2018, [SCOPUS]
3. Iliș NM, **Moldovan IM**, Moldovan SV - *Geotechnical and thermal aspects for underground houses on sliding slopes*, Proceedings of the XVI ECSMGE, 13-17 September, 2015, Edimburg, UK, Geotechnical Engineering for Infrastructure and Development / publicat in Géotechnique - Slopes and Geohazards [SCOPUS], [GoogleScholar]
4. **Moldovan IM**, Moldovan SV - *The new urban pandemic: I.B.S or The Irritable Bilbao Syndrome*, Proceeding of Questions? Continuity and discontinuity in urban space, 3rd International Workshop 2014, July 8-9, 2014, Faculty of Architecture and Urban Planning, Technical University of Cluj-Napoca, Special Issue of Acta Technica Napocensis Vol.57. No. 3 (2014), december, 2014, Cluj-Napoca, pag. 181-188, ISSN 1221-5848 [Copernicus], [getCITED], [Electronic Journals Library] [DOAJ], [EBSCO]
5. Moldovan SV, **Moldovan IM** - *The role of green spaces in high density cities*, Proceeding of Questions? Continuity and discontinuity in urban space, 3rd International Workshop 2014, July 8-9, 2014, Faculty of Architecture and Urban Planning, Technical University of Cluj-Napoca, Special Issue of Acta Technica Napocensis Vol.57. No. 3 (2014), december, 2014, Cluj-Napoca, pag. 62-68, ISSN 1221-5848 [Copernicus], [getCITED], [Electronic Journals Library] [DOAJ], [EBSCO]
6. **Moldovan IM** - *The behavior of the heat beneath the surface of the ground influences underground homes*, Acta Technica Napocensis: Civil Engineering & Architecture Vol.57. No. 2 (2014), September 7, 2014, Cluj-Napoca, pag. 159-166, ISSN 1221-5848 [Copernicus], [getCITED], [Electronic Journals Library] [DOAJ], [EBSCO]
7. Iliș NM, **Moldovan IM** - *Underground houses on sliding slopes*, Proceedings of C60 International Conference „Tradition and Inovation” – 60 Years of Constructions in Transylvania, November 7-9, 2013, publicat in Acta Technica Napocensis: Civil Engineering & Architecture Vol.57. No. 2 (2014), September, 7, 2014, Cluj-Napoca, pag. 139-148, ISSN 1221-5848 [Copernicus], [getCITED], [Electronic Journals Library] [DOAJ], [EBSCO]
8. **Moldovan IM**, Iliș NM - *Stabilization of a potentially sliding slope with the aid of an underground house*, Journal of Applied Engineering Sciences, Volume 4 (17), Issue

- 2/2014 Oradea – ROMANIA, University of Oradea Publishing House, pag. 75-80, ISSN 2247 – 3769 [EBSCO], [INSPEC], [DRJI], [Ulrich's], [Copernicus]
9. **Moldovan SV**, Moldovan MS, Moldovan IM - *Should our Romanian towns be painted in more vivid colors in the contemporary context?*, Proceedings of the National Technical Scientific Conference (International participation) "Modern Technologies for the 3rd Millenium", the 8th edition, 5-6.11.2010, Analele Universității din Oradea, Fascicula Construcții și Instalații Hidroedilitare, vol. 13, no. 2, Editura Universitatii din Oradea, november, 2010, Oradea, pag. 281-289, ISSN 1454 - 4067 [Copernicus]
  10. **Moldovan IM**, Moldovan MS, Moldovan SV - *Suburban fantasy*, Analele Universității din Oradea, Fascicula Construcții și Instalații Hidroedilitare, vol. 13, no. 1, Editura Universității din Oradea, july, 2010, Oradea, pag. 105-110, ISSN 1454 – 4067 [Copernicus]
  11. **Mureșanu IM**, Moldovan SV - *Architectural sculptures by the instrumentality of the computer*, Proceedings of „ICEGD 2009 – The 3<sup>rd</sup> International Conference on Engineering Graphics and Design”, Universitatea Tehnică din Cluj-Napoca, publicat in Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering, 2009, Cluj-Napoca, p.193-198, ISSN 1221-5872 [Copernicus]
  12. Moldovan SV, **Mureșanu IM** - *Drawing buildings with technology*, Proceedings of „ICEGD 2009 – The 3<sup>rd</sup> International Conference on Engineering Graphics and Design”, Universitatea Tehnică din Cluj-Napoca, publicat in Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering, 2009, Cluj-Napoca, p.181-184 ISSN 1221-5872 [Copernicus]
  13. **Mureșanu IM**, Mureșanu FA - *Underground habitats, an alternative to be taken into consideration*, International Conference „CONSTRUCTIONS 2008”, Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții, publicat in Acta Technica Napocensis, p.231-238, ISSN 1221-5848 [Copernicus]
  14. Andreica HA, Berindean AD, Dârmon R, **Mureșanu IM** - *The behavior of woodwn structures at seismic actions*, International Conference „CONSTRUCTIONS 2008”, Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții, publicat in Acta Technica Napocensis, p.27-34, ISSN 1221-5848 [Copernicus]
  15. Marusciac D, Marusciac A, Moș I, **Mureșanu IM** - *A new type of bearing structure and roofing system with a high degree prefabrication, suitable for residential buildings*, International Conference „CONSTRUCTIONS 2008”, Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții, publicat in Acta Technica Napocensis, p.227-232, ISSN 1221-5848 [Copernicus]
  16. Marusciac D, Munteanu C, Marusciac A, Bojan A, **Mureșanu IM** - *Optimizing the thermal protection for residential buildings by using a new and efficient thermal system*, International Conference „CONSTRUCTIONS 2008”, Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții, publicat in Acta Technica Napocensis, p.233-238, ISSN 1221-5848 [Copernicus]

## D – Peer reviewed papers in publications and conference proceedings (not indexed)

### **d2) Papers in conference proceedings:**

1. **Moldovan IM**, Moldovan SV, Ilieș NM - *Iconic Architecture: Skyscrapers*, 5th International Conference „Civil Engineering – Science and Practice” 17-21 februarie 2014, Zabljak, Muntenegru, p.1461-1468, ISBN: 978-86-82707-23-3

2. **Moldovan IM**, Moldovan SV - *Contemporary Utopias – Vertical Communities*, PROCEEDINGS of C60 International Conference “Tradition and Innovation – 60 Years of Constructions in Transilvania” 7–9 November 2013, Cluj-Napoca, p. 277-278, ISSN 978-973-662-903-7
3. **Moldovan IM** - *Contemporary Typologies of Underground and Half-Buried Houses* PROCEEDINGS of C60 International Conference “Tradition and Innovation – 60 Years of Constructions in Transilvania” 7–9 November 2013, Cluj-Napoca, p.279-280, ISSN 978-973-662-903-7
4. Moldovan SV, **Moldovan IM** - *Skyscrapers, Still the Trend in the Future Architecture and Urban Development of Major Cities*, Proceedings of the National Technical Scientific Conference (International participation) Modern Technologies for the 3rd Millenium - The 9th edition - 11–13 April 2013, Oradea – Romania, Editura Universităţii din Oradea, 2013, p.43-55, ISSN 978-606-10-1035-6
5. **Moldovan IM** - *Underground Habitat. Traditional typology* Proceedings of the National Technical Scientific Conference (International participation) Modern Technologies for the 3rd Millenium - The 9th edition - 11–13 April 2013, Oradea – Romania, Editura Universităţii din Oradea, 2013, p.31-42, ISSN 978-606-10-1035-6
6. **Moldovan IM**, Moldovan SV - *Underground Habitat. Traditional typology* Proceedings of the National Technical Scientific Conference (International participation) Modern Technologies for the 3rd Millenium - The 9th edition - 11–13 April 2013, Oradea – Romania, Editura Universităţii din Oradea, 2013, p.19-30, ISSN 978-606-10-1035-6
7. **Moldovan IM** - Moldovan SV, *Mega-structures, Super Tall Buildings, Ultra Highrise Buildings*, 4th International Conference „Civil Engineering – Science and Practice” 20-24 februarie 2012, Zabljak, Muntenegru, p.939-946, ISSN 2069-8003
8. **Moldovan IM**, Moldovan MS, Moldovan SV – *Vertical City*, “11th International Scientific Conference VSU'2011” - Higher School of Civil Engineering (VSU) “Lyuben Karavelov”, Sofia, Bulgaria, p.151-156, ISSN 1314-071X
9. **Moldovan IM**, Moldovan SV - *The World of Skyscrapers*, International Conference DEDUCON „Dezvoltarea durabila in constructii” 2011, 11.11.2011, Facultatea de Constructii si Instalatii din Iasi, p.61-67, ISSN 2248-0293
10. **Moldovan IM**, Moldovan MS, Moldovan SV - *The Villafication of Towns*, “10th International Scientific Conference VSU'2010” - Higher School of Civil Engineering (VSU) “Lyuben Karavelov”, Sofia, Bulgaria, p.92-97, ISSN 1314-071X
11. Moldovan SV, **Moldovan IM**, Moldovan MS – *The History of Romanian Tall Buildings*, “10th International Scientific Conference VSU'2010” - Higher School of Civil Engineering (VSU) “Lyuben Karavelov” – Sofia, p.151-156, ISSN 1314-071X
12. Mutică P, Moldovan SV, **Moldovan IM** - *Advanced 3D Modeling in ArchiCAD. Basic GDL scripting*, International Symposium Computational Civil Engineering 2010, Facultatea de Construcţii şi Instalaţii din Iaşi, Romania, p.346-357, ISSN 978-973-8955-87-5
13. Moldovan SV, Mutica P, **Moldovan IM** - *CAD Software as a Tool in Design* International Symposium Computational Civil Engineering 2010, Facultatea de Construcţii şi Instalaţii din Iaşi, Romania, p.406-412, ISSN 978-973-8955-87-5
14. **Mureşanu IM**, Moldovan SV, Moldovan MS - *Sky is the limit*, Design and Construction of Safe and Sustainable Highrise Structures International Conference, Technische Universität München “Highrise towers and Tall Buildings” Munchen, Germania, p.132-133

15. Moldovan SV, **Mureșanu IM** - *Tall Buildings in Romania*, Design and Construction of Safe and Sustainable Highrise Structures International Conference, Technische Universität München "Highrise towers and Tall Buildings", Munchen, Germania, p.170-171
16. **Mureșanu IM**, Mureșanu FA, Moldovan SV - *Underground city*, Proceedings of the National Technical Scientific Conference (International participation) Modern Technologies for the 3rd Millenium - The 7th edition, 2009, Universitatea din Oradea, Facultatea de Arhitectura si Construcții, p.213-220, ISSN 1454-4067
17. **Mureșanu IM** - *Motivations for underground living*, Proceedings of the National Technical Scientific Conference (International participation) Modern Technologies for the 3rd Millenium - The 7th edition, 2009, Universitatea din Oradea, Facultatea de Arhitectura si Construcții, p.205-212 ISSN 1454-4067
18. Moldovan SV, **Mureșanu IM** - *Era shopping mall-urilor*, Conferința științifică internațională „Dimensiunea europeană în cercetarea științifică pluridisciplinară” in cadrul Zilelor Academice Aradene 2009, Universitatea de Vest „Vasile Goldiș” din Arad, p.212-220, ISSN 1842-0508
19. **Mureșanu IM**, Mureșanu FA - *Sisteme de eco-arhitectură - locuințe semi-îngropate*, Constructii-Instalatii „CIB 2008”, Universitatea Transilvania din Brașov, Facultatea de Construcții, p.249-256, ISSN 1221-5848
20. **Mureșanu IM** - *Clădiri înalte*, Sesiunea Națională de Comunicări Științifice Studentesti - Student 2007, Cluj-Napoca, România, ISBN 978-973-662-331-0

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