

LISTA DE LUCRĂRI

Prof.dr.ing. Alexandru Octavian Aldea, Universitatea Tehnică de Construcții București

(i) Lista lucrărilor relevante

1. Aldea, A., Bertrand, E., Chesca, B., Ioan, P., Enache, R. (2025). Impact of Tram Passage on an Old House in Bucharest, Romania. In: Cunha, Á., Caetano, E. (eds) Experimental Vibration Analysis for Civil Engineering Structures. EVACES 2025. Lecture Notes in Civil Engineering, vol 675. Springer, Cham. https://doi.org/10.1007/978-3-031-96106-9_74
2. Pavel, F., Aldea, A. IJMA-based evaluation of ground motion recordings from Vrancea intermediate-depth earthquakes (2025). Bulletin of Earthquake Engineering 23, 4285–4303. <https://doi.org/10.1007/s10518-025-02220-y>
3. Aldea, A., Bitca, D., Bertrand, E., Theodorescu, M.I., Târșoagă, A., (2024). Modélisation et investigation expérimentale des églises du Monastère Cozia, Roumanie, Les Actes du 2ème édition du Symposium de la recherche scientifique francophone en Europe centrale et orientale de 2023, Bucarest, ISSN ONLINE 3119-8767 Tome I, p.66-69, <https://aos.ro/wp-content/SRSF/Tome1-Art.16.pdf>
4. Aldea, A., Vacareanu, R., Lungu, D., Pavel, F., Arion, C. (2022). GMPEs for Romania's Vrancea Intermediate Depth Seismic Source. In: Vacareanu, R., Ionescu, C. (eds) Progresses in European Earthquake Engineering and Seismology. ECEES 2022. Springer Proceedings in Earth and Environmental Sciences. Springer, Cham., https://doi.org/10.1007/978-3-031-15104-0_6
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9. Aldea, A., Yamanaka, H., Takahashi, T., 2006. "Microtremor Array Measurements in Northern Bucharest for Estimation of Site Response", 1st ECEES First European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland, 3-8 September 2006, Paper Number: 486, 10p., CD-ROM

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(ii) Teza de doctorat

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(iii) Brevete de invenție și alte titluri de proprietate intelectuală

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(iv) Cărți și capitole din cărți

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5. Văcăreanu, R., Aldea, A., Lungu, D. (2007). Structural Reliability and Risk Analysis, Editura Conspress, 148p., ISBN 978-973-100-004-6
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2. Aldea, A., Seismic design and seismic input, p.5-36, Site effects, p.37-56, Principles of seismic instrumentation of buildings, p.159-164, Comments on site predominant period, p.257-258
3. Arion, C., Aldea, A., Velocity profiles from borehole tests in Bucharest, p.97-99
4. Aldea, A., Yamanaka, H., Velocity profile from array microtremor measurements, p.104-110

5. Aldea, A., Yamanaka, H., Fukumoto, S., Velocity profile from array microtremor measurements in Bucharest, p.110-121
6. Aldea, A., Demetriu, S., Albota, E., SSI effects from ambient vibration measurements in Romania, p.223-231
7. Aldea, A., Demetriu, S., Iiba, M., Kashima, T., Albota, E., SSI effects from earthquake records in Romania, p.205-212
8. Aldea, A., Kashima, T., Poiata, N., Demetriu, S., Negulescu, C., Radoi, R., Examples of instrumented buildings in Romania - NCSRR seismic network, p.171-178
9. Aldea, A., Poiata, N., Kashima, T., Negulescu, C., Radoi, R., Fukumoto, S., Albota, E., Site response assessment using earthquake records and microtremors, p.57-76
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12. Lungu, D., Cornea, T., Aldea, A., Zaicenco, A. (1997). Basic representation of seismic action, p.9-60, in: Design of structures in seismic zones: Eurocode 8 - Worked examples. TEMPUS PHARE CM Project 01198: Implementing of structural Eurocodes in Romanian civil engineering standards. Editori Lungu, D., Mazzolani, F., Savidis, S., Editura Bridgeman Ltd., Timisoara, ISBN 963-04-8386-6

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1. Proceedings – 6th National Conference on Earthquake Engineering & 2nd National Conference on Earthquake Engineering and Seismology, editori Pavel F., Radulian, M., Arion, C., Popa, M., Aldea, A., 2017, Editura Conspress, ISSN 2559-3943, 484p.
2. Seismic motions. Examples of application in earthquake engineering, editor Aldea, A., 2013, Editura MatrixRom, 304p., ISBN 978-973-755-967-8
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(v) Articole publicate în reviste din fluxul științific internațional principal

Articole în reviste ISI

1. Pavel, F., Aldea, A. IJMA-based evaluation of ground motion recordings from Vrancea intermediate-depth earthquakes (2025). Bulletin of Earthquake Engineering 23, 4285–4303. <https://doi.org/10.1007/s10518-025-02220-y>
2. Pavel F, Vacareanu R, Aldea A, Arion C. Vertical Elastic Acceleration Response Spectra for Vrancea Intermediate-Depth Earthquakes (2024). Buildings 14(4):906. <https://doi.org/10.3390/buildings14040906>

3. Arion, C., Vacareanu, R., Aldea, A., Pavel, F. (2024) Assessment of frost depth and frost heave in Romania. *Applied Sciences*, 14(7), 3086, WOS:001200941000001, <https://doi.org/10.3390/app14073086>
4. Tigănescu A., Craifaleanu I.-G., Aldea A., Grecu B., Vacareanu R., Toma-Danila D., Balan S-F. and Dragomir C-S. (2022). Evolution, Recent Progress and Perspectives of the Seismic Monitoring of Building Structures in Romania. *Front. Earth Sci.* 10:819153, <https://doi.org/10.3389/feart.2022.819153>
5. Georgescu, Dan, Vacareanu, Radu, Aldea, Alexandru, Apostu, Adelina, Arion, Cristian, Girboveanu, Andrei, 2022. Assessment of the Sustainability of Concrete by Ensuring Performance during Structure Service Life. *Sustainability*, 14(2), 617 <https://doi.org/10.3390/su14020617>
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2. Vacareanu, R., Aldea, A., Arion, C., Lungu, D., Popa, V., Georgescu, E.S., 2011. National centre for the seismic risk reduction, Bulletin of International Institute of Seismology and Earthquake Engineering IISSE, Tsukuba, Japan, Vol 45, p.147-154, ISSN 0074-655X
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6. Aldea, A., 2001. Assessment of Site Response in Eastern Bucharest, Romania. Bulletin Individual studies of participants at the International Institute of Seismology and Earthquake Engineering, Vol. 36. Tsukuba, Japan, p.287-299, ISSN 0074-6606
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2. Lungu D., Demetriu S., Aldea A., 1994. Basic code parameters for environmental actions in Romania harmonised with EUROCODE 1, Bul. Stiintific al UTCB, Vol.2, p.35-44
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9. Lungu, D., Aldea, A., Arion, A., Vacareanu, R., 2004. WP1 -European Distinctive Features, Inventory Database and Typology, Bulletin of the Technical University of Civil Engineering Bucharest Nr.2/2003, p. 12-42
10. Vacareanu, R., Lungu, D., Aldea, A., Arion, A., 2004. WP7 Handbook - Seismic Risk Scenarios, Bulletin of the Technical University of Civil Engineering Bucharest Nr.2/2003, p. 97-117
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14. Lungu D., Văcăreanu R., Aldea A., Arion C., 2006. Codul de proiectare seismică P100 - 01. Prevederi de proiectare pentru clădiri Cap. 3, Acțiunea seismică, Buletinul AICPS, Asociația Inginerilor Constructori Proiectanți de Structuri, No 4/2006, Partea 1, p. 30-80
15. Lungu, D., Aldea A., Arion C., Vacareanu R., 2007. Cutremure istorice majore în România, Revista Monumentelor Istorice, Nr. LXXVI, 2007, Ed. Institutul Național al Monumentelor Istorice, București, p.96-116, ISSN 1220-174x & Lungu D., Aldea A., Arion C., 2008. Major Historical Earthquakes, Transylvania Nostra, Built Heritage, Year 11, Issue 5-6, No. 1-2/2008, Cluj, p. 6-31, & Lungu, D., Aldea, A., Arion, C., Vacareanu, R., 2008. Major Historical Earthquakes in Romania, Proceedings of International Conference Constructions 2008, Technical University of Cluj, Vol.I, p. 157-164, Acta Technica Napocensis 51, ISSN 1221-5848
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17. Lungu, D. , R. Vacareanu, A. Aldea, C. Arion, 2008. National and international programs for reduction of seismic risk in Romania, Proceedings of International Conference Constructions 2008, Technical University of Cluj, Volume I, p.165-172, Acta Technica Napocensis 51, ISSN 1221-5848
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(vi) Publicații apărute în lucrări ale principalelor conferințe internaționale de specialitate

Publicații indexate ISI

1. Aldea, A., Bertrand, E., Chesca, B., Ioan, P., Enache, R. (2025). Impact of Tram Passage on an Old House in Bucharest, Romania. In: Cunha, Á., Caetano, E. (eds) Experimental Vibration Analysis for Civil Engineering Structures. EVACES 2025. Lecture Notes in Civil Engineering, vol 675. Springer, Cham. https://doi.org/10.1007/978-3-031-96106-9_74
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5. Aldea, A., Radulian, M., (2016). Overview of Part I. In: 1940 Vrancea Earthquake. Issues, Insights and Lessons Learnt. Edited by: Vacareanu, R., Ionescu, C., Book Series: Springer Natural Hazards, pp: 3-17, https://doi.org/10.1007/978-3-319-29844-3_1

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