

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
وزارة السكن و العمران و المدينة
MINISTRE DE L'HABITAT, DE L'URBANISME ET DE LA VILLE

المركز الوطني للبحث المطبق في هندسة مقاومة الزلازل
CENTRE NATIONAL DE RECHERCHE APPLIQUEE EN GENIE PARASISMIQUE
(CGS)



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PRODUCTION SCIENTIFIQUE DU CGS
(Publications internationales
et nationales)

2000 – 31/12/2024

Février 2025

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Introduction

Le présent document récapitule la production scientifique du Centre National de Recherche Appliquée en Génie Parasismique (CGS) en termes de publications internationales et nationales, de l'année 2000 au 31 décembre 2024.

Les activités du CGS s'articulent autour de la recherche appliquée dans les domaines suivants :

- Aléa sismique
- Microzonage sismique et génie sismique
- Études de réduction du risque sismique
- Expertises
- Formation

Pour évaluer la production scientifique du centre sur la période considérée (2000-2024), les indicateurs suivants ont été retenus :

1. Publications internationales
2. Publications nationales

Les résultats de la recherche au CGS durant cette période ont permis :

- La publication de **186** articles dans des revues **internationales** de rang A et B, ce qui positionne notre centre parmi les premiers en Algérie (source : DGRSDT).
- La publication de **31** articles dans des revues **nationales** (de 2004 au 31 décembre 2024). Ce chiffre reflète le nombre limité de revues nationales et l'absence de revues spécialisées en génie parasismique

1- Publications Internationales

N°	Année	Auteurs, (année). Intitulé. Journal, Issues, doi.
186	2024	Letif, R. Bahar and N. Mezouar , 2024, The Use of Machine Learning Models and SHAP Interaction Values to Predict the Soil Swelling Index, Periodica Polytechnica Civil Engineering, https://doi.org/10.3311/PPci.36880
185		Boualem, Ikhlef, Kibboua Abderrahmane , Bennacer Lyacine, Hemaïdi Zourgui Nadjib, and Kehila Fouad . (2024). "Analysis of the Seismic Fragility of Slender Piers on Prestressed Concrete Viaducts". STUDIES IN ENGINEERING AND EXACT SCIENCES 5 (2):e8990.
184		Zeroual, A. Bouchelouh , F. Kessasra et al. (2024): « Site response measurements and implications for soil deformation using geophysical and geotechnical characterization of Djen-Djen Port, Jijel, Northeast Algeria » Journal of Applied Geophysics , Volume 232, January 2025, 105568.
183		Bourenane H., Mezouar N. Geomorphological, hydrogeological and geotechnical characteristics of the El Kherba large, deep-seated landslide induced by the August 7th, 2020 (Mw 4.9) earthquake in the city of Mila, northeast Algeria. Bull Eng Geol Environ 83, 288 (2024).
182		Karim, Akkouche., Aghiles Nekmouche. , & Leyla, Bouzid. (2023). "Proposal for an inspection tool for damaged structures after disasters". The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), 26, 176-182.
181		Faouzi Gherboudj, Nourredine Mezouar, Toufiq Ouzandja, Youcef Bouhadad, Nasser Laouami (2024) ' Probabilistic seismic hazard maps and uniform hazardspectra with site effect integration for northern of algiers' Natural Hazards, doi.org/10.1007/s11069-02406502-7.
180	2023	Faouzi Gherboudj, Toufiq Ouzandja, Rabah Bensalem (2024), 'Empirical spectral amplification functions using strong ground motion data and mixed effect analysis method, Application in Algeria' Bulletin of Geophysics and Oceanography.
179		Kehila F. Khelfi M. Ait Belkacem M. (2023). "Scalar and vector-valued fragility analysis of typical Algerian RC bridge piers", GRANDEVINAR. 75(6), 177-186, DOI: https://doi.org/10.14256/JCE.3630.2022 .
178		Beneldjouzi, M. Hadid, N. Laouami et M. Remki (2023) "International Journal of Civil Engineering" (Springer) intitulé " <i>Analysis of Coupled Site and Soil–Structure Interaction Effects on the Seismic Response of Multistory Buildings According to EC-8and ASCE7-16 Code Provisions</i> " DOI: https://doi.org/10.1007/s40999-023-00840-6 .
177		Bourenane H. Braham M. · Guessoum N. Landslide susceptibility mapping using GIS-based statistical and machine learning modeling in the city of Sidi Abdellah, Northern Algéria. Modeling Earth Systems and Environment.

176	Beneldjouzi M, Remki M, Kehila F. (2023). “ <u>Displacement-Based Methodology for Seismic Analysis of a Retrofitted Substandard Low-Rise RC Building Using Conditional Mean Spectra</u> ». Iranian Journal of Science and Technology - Transactions of Civil Engineering. DOI: 10.1007/s40996-023-01266-9 .
175	M Annad, N H Zourgui, A Lefkir, A Kibboua , O Annad, (2023). Scour-dependent seismic fragility curves considering soil-structure interaction and fuzzy damage clustering: A case study of an Algerian RC Bridge with shallow foundations, Ocean Engineering, Volume 275, 114157, ISSN 0029-8018,
174	Mechaala , B. Chikh, H. Bechtoula, M. Ouali and A. Nekmouche (2023), Numerical investigation of the hysteretic response analysis and damage assessment of RC column, Advances in Computational Design, Vol. 8, No. 02, 97-112
173	Hamid Bourenane (2023) Landslide hazard mapping using temporal probability analysis of rainfall thresholds in the city of Azazga and surrounding areas, northern Algeria. Arabian Journal of Geosciences (2023) 16: 592
172	Chebihi A., Dorbani S. and Laouami N. (2023) Correlation Between Ground Motion Parameters and Structural Response of Reinforced Concrete Buildings. Arabian Journal for Science and Engineering
171	Beneldjouzi M., Hadid M., Laouami N. and Remki M. (2023) " Frequency-domain preliminary assessment of coupled site and SSI effects according to the Algerian seismic provisions. " World Journal of Engineering. Emerald Publishing Limited. [DOI10.1108/WJE-07-2022-0313].
170	Bouhadad y, Guessoum n., Benfedda A. 2023, Seismic Hazard Mapping in Northwestern Algeri., Conference: 2023 International Conference on Earth Observation and Geo-Spatial Information (ICEOGI), DOI: 10.1109/ICEOGI57454.2023.10292966 .
169	Ouzandja T, Gherboudj F and Hadid M. 2023, “ <i>Seismic Behavior of an Inhomogeneous poroviscoelastic Soil Profile with Spatial Variation in Soil Properties</i> ”. ICCEE2023, 1st International Conference on Civil and Earthquake Engineering, Annaba, Algeria. December 12-14, 2023.
168	Nekmouche A, AkkoucheK, Ouzandja T, Bouzid L, Remki M. 2023, “ <i>Assessment of Plastic Hinges Models for the Prediction of RC/Frame Structures Behavior</i> ”. ICCEE2023, 1st International Conference on Civil and Earthquake Engineering, Annaba, Algeria. December 12-14, 2023.

167		Benfedda A.,Abbes K., Ayadi A, Maouche S., Bouhadad Y. ,Boughacha M.S.Bezzeghoud M. 2023, Source rupture process of the March 18th, 2021, Mw6.0 Béjaia (Algeria) earthquake associated with the Western segment – A link with the August 1856 Djidjelli earthquakes (Io = VIII-IX, $M \geq 6$), Physics of the Earth and Planetary Interiors Volume 345, December 2023, 107115, https://doi.org/10.1016/j.pepi.2023.107115 .
166	2022	Bourenane H, Bensalem R, Oubaiche, Braham M, Meziani A.A, Tebbouche M.Y (2022) The large deep-seated landslide induced by the march 12th, 2012 rainfall event in the city of Azazga, Northern Algeria: Deformation characteristics and failure mechanisms. Environmental Earth Sciences 81, 476 (2022). https://doi.org/10.1007/s12665-022-10612-5
165		Massinissa Braham, Abdelmadjid Boufekane, Hamid Bourenane, Baya Nait Amara, Rabah Bensalem, El Hadi Oubaiche & Youcef Bouhadad (2022) Identification of groundwater potential zones using remote sensing, GIS, machine learning and electrical resistivity tomography techniques in Guelma basin, northeastern Algeria, Geocarto International, DOI: 10.1080/10106049.2022.2063408
164		Bedr S., Dufour N., Javelaud E., Lenti L., Régnier J., Simon C. (2022) A new geotechnical database for dynamic soil properties Considering Resonant Column and Cyclic Triaxial Tests performed in France, Research Report, Project SIGMA2-2021-D4-083.
163		Dalila Ait Benamar · Hakim Moulouel · Djelloul Belhai · Fethi Semmane · Assia Harbi · Mohamed Yacine Tebbouche · Mehdi Boukri · Abdelghani Aghiles Meziani · Sahra Aourari · Massinissa Braham Djamel Machane "The 17 July 2013 Hammam Melouane earthquake: observations and analysis of geological and seismological data" Journal of Iberian Geology. https://doi.org/10.1007/s41513-022-00187-228 July 2020
162		Belhamdi, N., Kibboua, A., and Tahakourt, A. (2022). "Seismic vulnerability assessment of existing private RC constructions in northern Algeria". <i>Earthquake and Structures</i> . Vol.22, N°.1, pp. 25-38. DOI : : https://doi.org/10.12989/eas.2022.22.1.025
161		Boussa, Leila, Mohamed Chemrouk, Abdelmadjid Si Salem, et Aghiles Nekmouche. (2022). « Seismic reduction factor of reinforced concrete framed structures ». Asian Journal of Civil Engineering 23 (2): 153-71. https://doi.org/10.1007/s42107-021-00412-w .
160		Ait Benamar D: publication internationale dans la revue : Journal of Iberian Geology, intitulée : The 17 July 2013 Hammam Melouane earthquake: observations and analysis of geological and seismological data.
159		M. Benziane, N. Della, S. Bedr (2022), Mechanical behavior of bio-cemented silty sand, <i>Arabian Journal of Geosciences</i> , Volume 15(Issue 7) DOI: 10.1007/s12517-022-09776-y .

158		Boukri M , Farsi MN, Mébarki A (2022) <i>Rapid earthquake loss estimation model for Algerian urban heritage: case of Blida city. International Journal of Architectural Heritage, Taylor and Francis.</i> https://doi.org/10.1080/15583058.2021.1958394 (IF: 2.580).
157		Ait Benamar D, Moulouel H , Belhai D, Semmane F, Harbi A, Tebbouche MY, Boukri M , Meziani AA, Aourari S, Braham M, Machane D (2022) The 17 July 2013 Hammam Melouane earthquake: “observations and analysis of geological and seismological data. Journal of Iberian Geology . https://doi.org/10.1007/s41513-022-00187-2 (IF: 859).
156		Serkhane A.; Benfedda A. , Guettouche M., Bouhadad Y. (2022) . "InSAR derived co-seismic deformation triggered by the Mihoub (Tell Atlas of Algeria) 28 May, 2016 (Mw = 5.4) earthquake combined to geomorphic features analysis to identify the causative active fault" Journal of African Earth Sciences, DOI: 10.1016/j.jafrearsci.2022.104476
155	2021	Benfedda Amar , Serkhane Ahmed , Bouhadad Youcef , Slimani Abdennasser , Abbouda Mustafa , Bourenane Hamid . "The main events of the July–August 2020 Mila (NE Algeria) seismic sequence and the triggered landslides. Arabian Journal of Geosciences (2021) 14:1894.
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153		Bourenane, H. and Bouhadad Y. (2021), Impact of Land use Changes on Landslides Occurrence in Urban Area: The Case of the Constantine City (NE Algeria), Geotech Geol Eng https://doi.org/10.1007/s10706-021-01768-1
152		Yousfi N., Bensaïbi M., Guessoum N., Boukri M. (2021). Seismic Scenario of Algiers city: Case Study of Strengthened Masonry (SM) Buildings, Structural Engineering international (SEI), https://doi.org/10.1080/10168664.2021.1872465
151		Kehila, F., Remki, M., Kibboua, A., Bechtoula, H. (2020). Developing seismic fragility curves for existing reinforced concrete structures in Algeria. Proceedings of the Institution of Civil Engineers - Structures and Buildings, 1–38. doi: https://doi.org/10.1680/jstbu.19.00142
150		Rania Souici, Yamina Ait Meziane and Benouar Djillali, (2021), Identification of vibration direction of existing buildings using ambient vibration noise tests, Arabian journal of geosciences, 14, doi.org/10.1007/s12517-020-06306-6
149	2020	Benfedda A, Bouhadad, Boughacha, Guessoum N, Abbes, Bezzeghoud M, (2020). The Oran January 9th (Mw 4.7) and June 6th, 2008 (Mw 5.4) earthquakes: Seismological study and seismotectonic implication, Journal of African Earth Sciences, Volume 169, 2020, 103896, ISSN 1464-343X, doi.org/10.1016/j.jafrearsci.2020.103896 .

148	A. Messaoudi, N. Mezouar, N. Laouami and M. Hadid (2020), Topographic effects on seismic responses of steep sloped superficially weathered rock: the case of 'Rocher Noir' at Boumerdes city in Algeria, Journal of Seismology, https://doi.org/1007/s10950-020-09958-9
147	Bourenane H., Bouhadad Y, (2020) Spatial analysis, assessment and mapping of flood hazard in the alluvial plains of Boumerzoug and Rhumel (city of Constantine, north-eastern Algeria): application to development and urban planning projects. Bull. Eng Geol. Environ., doi.10.1007/s10064-017- https://doi.org/10.1007/s10064-020-01980-y
146	Hassan Aknouche, Abdelhalim Airouche and Hakim Bechtoula, (2020) "Influence of Earthquake Frequency Nonstationarity on Seismic Structural Response" Iranian Journal of Science and Technology, Transactions of Civil Engineering, Springer, 44, 603–614, https://doi.org/10.1007/s40996-020-00360-6
145	Moulouel, H., Bouchelouh, A., Bensalem, R. et al. The Mahelma fault: a secondary structure of the Sahel anticline?. Arab J Geosci 13, 715 (2020). Doi : 10.1007/s12517-020-05694-z.
144	Nasser Laouami. 2020. Proposal for a new sie classification tool using microtremor data. Bulletin of Earthquake Engineering. https://doi.org/10.1007/s10518-020-00882-4 .
143	Mounir Ait Belkacem, Hakim Bechtoula, Nouredine Bourahla, Adel Ait Belkacem, (2020) "Damage index for reinforced concrete columns", GRAĐEVINAR 72 (2020) 2, 139-149, DOI: https://doi.org/10.14256/JCE.2626.2019

142		Hamal Sofiane, Nouredine Bourahla and Nasser Laouami. 2020. Neural-Network Based Prediction of Inelastic Response Spectra. Civil Engineering Journal 6(6):1124-1135. DOI: 10.28991/cej-2020-03091534
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139		Y. MEHANI, A. KIBBOUA, C. BENAZOUZ, M. REMKI, (2020). «Seismic vulnerability of an existing strategic RC building using nonlinear static and dynamic analyses" DOI: https://doi.org/10.14256/JCE.2122.2017 , GRADEVINAR 72 7, 617-626.
138	2019	Abbes K., Dorbath, C., Dorbath, L., Bouhadad Y., Oussadou F., Bezzeghoud M., (2019), Revisiting the Laalam (Eastern Algeria) March 20, 2006 (Mw 5.1) earthquake and its seismotectonic implication, Pure Appl Geophys, DOI 10.1007/s00024-019-02206-3
137		Bourenane Hamid, Bouhadad Youcef, Guettouche Mohamed Said (2019) Flood hazard mapping in urban area using the hydrogeomorphological approach: case study of the Boumerzoug and Rhumel alluvial plains (Constantine city, NE Algeria). Journal of African Earth Sciences. https://doi.org/10.1016/j.jafrearsci.2019.103602
136		Nasser Laouami. 2019. Vertical ground motion prediction equations and vertical-to-horizontal (V/H) ratios of PGA and PSA for Algeria and surrounding region. Bulletin of Earthquake Engineering. 17:3637–3660, doi.org/10.1007/s10518-019-00635-y.
135		AKNOUCHE Hassan, AIROUCHE Abdelhalim and BECHTOULA Hakim, (2019) "Effect of Masonry Infilled Panels on the Seismic Performance of a R/C Frames" Earthquakes and Structures, Vol. 16, N°. 3, pp.329-348, DOI: 10.12989/eas.2019.16.3.329
134		Maouche S., Bouhadad Y., Harbi A., Rouchiche Y., Oussadou F., Ayadi A. (2019) Active tectonics and Seismic hazard in the Tell Atlas of Algeria, Chapter in "Geology of the Arab World". Springer.
133		Abbouda M.; Maouche S. , Bouhadad Y., Belhai D., (2019) Neotectonics and active tectonics of the Dahra- Lower Cheliff Basin (Tell Atlas, Algeria): Seismotectonic implication, Journal of African Earth Sciences 153 (2019) 250–267.
132		Buform E.; Coca, P.; Bezzeghoud M.; Udias, A.; Bouhadad Y.; Mattesini M.(2019), The destructive 1790 Oran (NW Algeria)

		earthquake in a region of low seismicity; Tectonophysics, https://doi.org/10.1016/j.tecto.2019.03.008 .
131		Nait Amara B, Aissa D. E, Maouche S, Braham M, Machane D, & Guessoum N, (2019). Hydrothermal alteration mapping and structural features in the Guelma basin (Northeastern Algeria): contribution of Landsat-8 data. Arabian Journal of Geosciences, 12(3), 94. https://doi.org/10.1007/s12517-019-4224-4
130		Ait Belkacem M , Bechtoula H, Bourahla N, Ait Belkacem A, (2019). Effect of axial load and transverse reinforcements on the seismic performance of reinforced concrete columns”, Frontiers of Structural and Civil Engineering Journal, DOI: https://doi.org/10.1007/s11709-018-0513-3
129	2018	Nasser Laouami, Mohamed Hadid, Nouredine Mezouar. 2018. Proposal of an empirical site classification method based on target simulated horizontal over vertical spectral ratio. Bulletin of Earthquake Engineering. 16:5843–5874, doi.org/10.1007/s10518-018-0420-y .
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126		M. A. Benbouras, R. Kettab Mitiche, H. Zedira, A. I. Petrisor, N. Mezouar, F. Debiche, (2018) A new approach to predict the compression index using artificial intelligence methods, Marine Georesources & Geotechnology, https://doi.org/10.1080/1064119x.2018.1484533
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124		Samia Louadj, Ramdane Bahar and Nasser Laouami. 2018. Numerical Analysis of Keddara Dam under Seismic Motion. International Journal of Engineering Research in Africa. 40:47-62 DOI: 10.4028/www.scientific.net/JERA.40.47
123		Abbouda, M.; Bouhadad, Y.; Benfedda, A.; Slimani, A. (2018), Seismotectonic and seismological aspects of the Mostaganem (Western Algeria) May 22, 2014 (Mw 4.9) seismic event Arab.J.Geosci.11,57 (DOI.10.1007/s12517-018-3404-y).

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119		Kibboua A., Kehila F, Zourgui NH, Remki M. (2018), "Ductility-Based Seismic Vulnerability Assessment of RC Bridge Piers", H. Rodrigues and A. Elnashai (Eds.): GeoMEast 2018, SUCI, pp. 307–323. Doi: https://doi.org/10.1007/978-3-030-01932-7_24
118		Mustapha Remki, Benazouz Chikh, Abderrahmane Kibboua, Fouad Kehila, Youcef Mehani et Boubakeur Fettar (2018) « Seismic Vulnerability and Damage Assessment of an Existing URM Building». Iranian Journal of Science and Technology Transactions of Civil Engineering. https://doi.org/10.1007/s40996-018-0187-z .
117		Kehila F, Kibboua A, Bechtoula H, Remki M (2018) Seismic performance assessment of R.C. bridge piers designed with the Algerian seismic bridges regulation. Earthquakes and Structures 15 (6):701-713. doi: https://doi.org/10.12989/eas.2018.15.6.701
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24		Bencharif R. Zahafi Amina Mezouar N. Hadid M. "Time-domain implementation of soil-structure interaction analysis techniques with frequency-dependent impedance functions". Algérie Equipement. N° 69, PP 1-20. 2023.
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