

الجمهورية الجزائرية الديمقراطية الشعبية
REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET
POPULAIRE

قرازو نكسلا و رسي مئنا و قنيما
MINISTERE DE L'HABITAT DE L'URBANISME ET DE LA
VILLE

زكرملا ينطولا نحبلا قبطملا يف قسدنه قمواقم لزلزلا
CENTRE NATIONAL DE RECHERCHE APPLIQUEE EN GENIE
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PRODUCTION SCIENTIFIQUE DU CGS

2000 - 2023

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INTRODUCTION

Ce document est un récapitulatif de la production scientifique du Centre National de Recherche appliquée en Génie Parasismique (CGS) depuis l'année **2000 au 31/12/2023**.

Les activités du centre s'articulent autour de la recherche appliquée dans les domaines de l'aléa sismique, le microzonage sismique et le génie sismique, les études de réduction du risque sismique, les expertises et la formation.

Dans ce document, les indicateurs scientifiques suivants sont utilisés pour apprécier la production scientifique du centre depuis **2000 au 31/12/2023** :

1. Publications Internationales
2. Publications Nationales

Durant cette période, les activités de recherche au CGS ont permis : (i) la production de **179 publications internationales** (de rang A et B), ce qui classe notre centre parmi les premiers en Algérie (source DGRSDT) ; (ii) la production de **29 publications nationales** (depuis l'année 2004 au 31/12/2023), ce chiffre traduit le peu de revues nationales et l'inexistence de revues spécialisées en génie parasismique.

1- Publications Internationales

N°	Année	Auteurs, (année). Intitulé. Journal, Issues, doi.
179	2023	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. Nekomouche (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 ≥ 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 Nekkrouche . (2022). « Seismic reduction factor of reinforced concrete framed structures ». <i>Asian Journal of Civil Engineering</i> 23 (2): 153-71. https://doi.org/10.1007/s42107-021-00412-w .
160		Ait Benamar D : publication internationale dans la revue : <i>Journal of Iberian Geology</i> , 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</i> , Taylor and Francis. 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. <i>Journal of Iberian Geology</i> . 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" <i>Journal of African Earth Sciences</i> , 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. <i>Arabian Journal of Geosciences</i> (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), <i>Geotech Geol Eng</i> https://doi.org/10.1007/s10706-021-01768-1

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151		Kehila, F., Remki, M., Kibboua, A., Bechtoula, H. (2020). Developing seismic fragility curves for existing reinforced concrete structures in Algeria. <i>Proceedings of the Institution of Civil Engineers - Structures and Buildings</i> , 1–38. doi: https://doi.org/10.1680/jstbu.19.00142
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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, <i>Journal of African Earth Sciences</i> , Volume 169, 2020, 103896, ISSN 1464-343X, doi.org/10.1016/j.jafrearsci.2020.103896 .
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144		Nasser Laouami. 2020. Proposal for a new sie classification tool using microtremor data. <i>Bulletin of Earthquake Engineering</i> . 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", <i>GRAĐEVINAR</i> 72 (2020) 2, 139-149, DOI: https://doi.org/10.14256/JCE.2626.2019

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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 , GRAĐEVINAR 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, <i>Pure Appl Geophys</i> , 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). <i>Journal of African Earth Sciences</i> . https://doi.org/10.1016/j.jafrearsci.2019.103602
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135		AKNOUCHE Hassan, AIROUCHE Abdelhalim and BECHTOULA Hakim, (2019) "Effect of Masonry Infilled Panels on the Seismic Performance of a R/C Frames" <i>Earthquakes and Structures</i> , Vol. 16, N°. 3, pp.329-348, DOI: 10.12989/eas.2019.16.3.329
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		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. <i>Arabian Journal of Geosciences</i> , 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”, <i>Frontiers of Structural and Civil Engineering Journal</i> , 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. <i>Bulletin of Earthquake Engineering</i> . 16:5843–5874, doi.org/10.1007/s10518-018-0420-y .
128		Bouchelouh, A., Bensalem, R., Zaourar, N., Machane, D., Moulouel, H., Oubaiche, E.H. (2018) The Miocene Roof Mapping Using Microtremor Recording and Electrical Survey Method in Blida City, Algeria. <i>Pure Appl. Geophys.</i> 175, 287–301 (2018). https://doi.org/10.1007/s00024-017-1684-x
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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, <i>Marine Georesources & Geotechnology</i> , https://doi: 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. <i>International Journal of Engineering Research in Africa</i> . 40:47-62 DOI: 10.4028/www.scientific.net/JERA.40.47
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121	Airouche H., Aknouche H., Bechtoula H. and Mezouar N., (2018) “Performance of the CGS six DOF shaking table on the harmonic signal reproduction”, <i>Periodica Polytechnica Civil Engineering Journal</i> , Vol. 62, N° 1, 102-111. DOI: https://doi.org/10.3311/PPci.9033 , ISSN:0553-6626.
120	Nasser Laouami, Abdennasser Slimani, Said Larbes, 2018, Ground motion prediction equations for Algeria and surrounding region using site classification based. H/V spectral ratio. <i>Bulletin of Earthquake Engineering</i> . 16:2653–2684. doi.org/10.1007/s10518-018-0310-3 .
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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”. <i>Iranian Journal of Science and Technology Transactions of Civil Engineering</i> . https://doi.org/10.1007/s40996-018-0187-z .
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115	Benazouz Chikh, Mustapha Remki, Abdelkader BENYOUCEF, Youcef MEHANI, Mohamed HADID and Abdelmounaim MECHAALA, (2018) « Seismic Demands Assessment of Tall Buildings: Theoretical Approach and Applications”.. <i>Iranian Journal of Science and Technology Transactions of Civil Engineering</i> . https://doi.org/10.1007/s40996-018-0187-z .
114	Boukri M, Farsi MN, Mébarki A, Belazougui M, Ait-Belkacem M, Yousfi N, Guessoum N, Ait-Benamar D, Naili M, Mezouar N, Amellal O. (2018). Seismic vulnerability assessment at urban scale: Case of Algerian buildings. <i>International Journal of Disaster Risk Reduction</i> , 31: 555–575. https://doi.org/10.1016/j.ijdr.2018.06.014

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29	2023	Abbas D.; Bouhadad Y. (2023) es Coulées De Débris D'ait-ouabane (w. De Tizi Ouzou) Du 29/04/2022: Causes Et Solutions, Bulletin du Service Géologique de l'Algérie Volume 32, Numéro 1, Pages 19-32, 2023 -07-25.
28		Benfedda A., Abbouda M., Slimani A., Haddouche D., Abbes K., Nekkouche A., Bouhadad Y. 2023, Le Seisme De Gdeyel (oran) Du 26 Juin 2022 (mw 4.3): Etude Sismologique Et Implication Sismotectonique, Bulletin du Service Géologique de l'Algérie , Volume 32, Numéro 1, Pages 5-17.
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26		Kehila F, Kibboua A, Remki M, " Evaluation de la vulnérabilité sismique des piles de pont en béton armé à l'aide de la mesure de l'intensité vectorielle", Revue scientifique et technique de l'école National Supérieure des Travaux Publics, Algérie Equipement, N° 68 Résumé- janvier 2023, pp 35-50
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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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19		Kehila F, Remki M, Kibboua A (2021),"Comparaison des courbes de fragilité des piles de ponts conçues avant et après l'application du code sismique Algérien", Revue scientifique et technique de l'école National Supérieure des Travaux Publics, Algérie Equipement, N°64 :47-59. e-ISSN : 2716-7801
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