

Date of Submission	September 11, 2024
--------------------	--------------------

Progress Report of ICL Network

1. Title of Network: ICL Latin America Network

2. Name of Coordinator (Affiliation and email):

Irasema Alcántara-Ayala

Institute of Geography, National Autonomous University of Mexico (UNAM)

Full Professor

Av. Universidad 3000, Circuito Exterior, Ciudad Universitaria

04310, Coyoacán, México, D.F., Mexico City, Mexico

E-mail: ialcantara@geografia.unam.mx

3. List of member organizations

Guillermo Ávila/Full Professor

Civil and Agricultural Engineering Department

Universidad Nacional de Colombia

E-mail: geavilaa@unal.edu.co

4. Progress report of activities:

Development of ICL projects, landslide mapping, monitoring and evaluation

Publications in the ICL Book Series Progress in Landslide Research and Technology

Landslide publications in diverse journals and books

Participation in the 6th World Landslide Forum and the ICL activities

5. Plan of future activities:

Scientific support during major landslide disasters in Latin America

Field evaluation, landslide assessment and mapping

Capacity building for young scientist

Publication of landslide study cases from Latin America

Strong support for the Sendai-ICL partnership and the Kyoto Commitment

Research on the applications of optic fibre instrumentation and Interferometric InSAR techniques to monitor landslides

Integrated research on landslide disaster risk

Landslide disaster risk perception and communication

Publications in the ICL Book Series Progress in Landslide Research and Technology

6. Publication (ICL Journal Landslides, ICL Book Series, etc.)

Journals

- Alcántara-Ayala, I., Pasuto, A., & Cui, P. (2022). Disaster risk reduction in mountain areas: an

initial overview on seeking pathways to global sustainability. *Journal of Mountain Science*1, 19(6), 1838-1846.

- Alcántara-Ayala, I., Cui, P., & Pasuto, A. (2022). Disaster risk reduction in mountain areas: a research overview. *Journal of Mountain Science*1, 19(6), 1487-1494.
- Szarzynski J., Alcantara-Ayala I., Nusser M., Schneiderbauer S. (2022) Focus Issue: Addressing Challenges of Hazards, Risks, and Disaster Management in Mountain Regions, *Mountain Research and Development*1, 42, 2 May 2022: 1–3.
- Alcántara-Ayala I., Ribeiro Parteli, E. J., Pradhan, B., Cuomo, S., & Vieira, B. C. (2023). Physics and modelling of landslides. *Frontiers in Physics*1, 11:1146166. doi: 10.3389/fphy.2023.1146166
- Sarmiento, F. O., Haller, A., Marchant, C., Yoshida, M., Leigh, D. S., Woosnam, K., Porinchu D.F., Gandhi K., King E.G., Pistone M., Ka-voori A., Calabria J., Alcántara-Ayala, I.... & Reap, J. (2023). 4d Global Montology: toward convergent and transdisciplinary Mountain Sciences across time and space. *Pirineos*1, 178, e075-e075.
- Alcántara-Ayala, I., Sassa, K. (2023). Landslide risk management: from hazard to disaster risk reduction. *Landslides* 20, 2031–2037 <https://doi.org/10.1007/s10346-023-02140-5>

ICL Book Series

- Abolmasov, B. Alcántara-Ayala, I., Arbanas, Ž., Huntley, D., Konagai, K., Mihalić Arbanas, S., Mikoš, M., Ramesh, M.V., Sassa, K., Sassa, S., Tang, H., Tiwari, B. (Editors) (2024) Progress in Landslide Research and Technology, Volume 3 Issue 1, 2024, Springer Cham, ISBN: ISBN 978-3-031-55119-2 DOI: 10.1007/978-3-031-55120-8, 474 pp.
- Alcántara-Ayala, I., Arbanas, Ž., Cuomo, D., Huntley, D., Konagai, K., Mihalić Arbanas, S., Mikoš, M., Sassa, K., Sassa, S., Tang, H., Tiwari, B. (Editors) (2023) Progress in Landslide Research and Technology, Volume 2 Issue 1, 2023, Springer Cham, ISBN: 978-3-031-39012-8, DOI: 10.1007/978-3-031-39012-8, 482 pp.
- Alcántara-Ayala, I., Arbanas, Ž., Huntley, D., Konagai K., Mikoš M., Sassa, K., Sassa, S., Tang, H., Tiwari, B. (Editors) (2022) Progress in Landslide Research and Technology, Volume 1 Issue 2, 2022, Springer Nature, 475 pp.
- Alcántara-Ayala, I., Arbanas, Ž., Huntley, D., Konagai, K., Mihalić Arbanas, S., Mikoš, M., Ramesh, M.V., Sassa, K., Sassa, S., Tang, H., Tiwari, B. (Editors) (2023) Progress in Landslide Research and Technology, Volume 2 Issue 2, 2023, Springer Cham, ISBN: 978-3-031-44296-4, DOI: 10.1007/978-3-031-44296-4, 503 pp.

Chapters, ICL Book Series

- Alcántara-Ayala, I., Garnica-Peña, R.J. (2023). Landslide Warning Systems in Low-And Lower-Middle-Income Countries: Future Challenges and Societal Impact. In: Sassa, K., Konagai, K., Tiwari, B., Arbanas, Ž., Sassa, S. (eds) Progress in Landslide Research and Technology, Volume 1 Issue 1, 2022. Progress in Landslide Research and Technology. Springer, Cham.
- Alcántara-Ayala, I., Garnica-Peña, R.J. (2023). Landslide Warning Systems in Upper Middle-Income Countries: Current Insights and New Perspectives. In: Alcántara-Ayala, I., Arbanas,

Ž., Huntley, D., Konagai, K., Mikoš, M., Sassa, K., Sassa, S., Tang, H., Tiwari, B. (Eds.) Progress in Landslide Research and Technology, Volume 1 Issue 2, 2022. Progress in Landslide Research and Technology. Springer, Cham.

- Alcántara-Ayala, I., Garnica-Peña, R.J. (2023). Landslide Warning Systems in High-Income Countries: Past Accomplishments and Expected Endeavours. In: Alcántara-Ayala, I., et al. Progress in Landslide Research and Technology, Volume 2 Issue 1, 2023. Progress in Landslide Research and Technology. Springer, Cham.
- Ávila, G. and Ávila-Guzmán M.P. (2024). (In Press). Lessons from the great Gramalote – Colombia Landslide (2010) and its relocation process. Progress in Landslide Research and Technology, Vol. 3, Issue 2, 2024.
- Garnica-Peña, R.J., Alcántara-Ayala, I. (2023). Do not Let Your Guard Down: Landslide Exposure and Local Awareness in Mexico. In: Alcántara-Ayala, I., et al. Progress in Landslide Research and Technology, Volume 2 Issue 2, 2023. Progress in Landslide Research and Technology. Springer, Cham.
- Lozano, J., & Ávila, G. (2024). Landslide Hazard Evaluation of a Large Waste Landfill in Bogotá City. In Progress in Landslide Research and Technology, Volume 3 Issue 1, 2024 (pp. 93-103). Cham: Springer Nature Switzerland.
- Moncayo, S., & Ávila, G. (2023). Landslide travel distances in Colombia from national landslide database analysis. In Progress in Landslide Research and Technology, Volume 1 Issue 1, 2022 (pp. 315-325). Cham: Springer International Publishing. (Awarded with ICL Book Article Award).
- Ríos, D., & Ávila, G. (2023). Lessons from 2019–2020 landslide risk assessment in an urban area of volcanic soils in Pereira-Colombia. In Progress in Landslide Research and Technology, Volume 2 Issue 1, 2023 (pp. 331-345). Cham: Springer Nature Switzerland.

Book chapters - others

- Alcántara-Ayala, I. and Geertsema, M. (2022). Construction of Disaster Risk in Mountain Systems and its Integrated Management, In: Fausto Sarmiento (Ed.), Montology Palimpsest: A Primer of Mountain Geography. Springer/Nature-Switzerland.
- Alcántara-Ayala, I. and Geertsema, M. (2022). Landslides, In: Tara McGee and Edmund Penning-Rowsell (Eds.), The Routledge Handbook of Environmental Hazards and Society, Routledge, London.
- Geertsema, M. and Alcántara-Ayala, I. (2022). Mountain Landslides – An Overview of Common Types and Future Impacts, In: Fausto Sarmiento (Ed.), Montology Palimpsest: A Primer of Mountain Geography. Springer/Nature-Switzerland.