Record Nr. UNINA9910366582603321 **Titolo** Geotechnical Research for Land Protection and Development: Proceedings of CNRIG 2019 / / edited by Francesco Calvetti, Federica Cotecchia, Andrea Galli, Cristina Jommi Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2020 **ISBN** 3-030-21359-5 Edizione [1st ed. 2020.] Descrizione fisica 1 online resource (XVI, 788 p. 474 illus., 314 illus. in color.) Lecture Notes in Civil Engineering, , 2366-2557;; 40 Collana 624.15 Disciplina 624.151 Soggetti Engineering geology Engineering—Geology Foundations Hydraulics Geotechnical engineering Natural disasters Sustainable development Geoengineering, Foundations, Hydraulics Geotechnical Engineering & Applied Earth Sciences Natural Hazards Sustainable Development Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Sommario/riassunto This volume gathers the latest advances, innovations, and applications in the field of geotechnical engineering, as presented by leading researchers and engineers at the 7th Italian National Congress of Geotechnical Researchers (CNRIG 2019), entitled "Geotechnical Research for the Protection and Development of the Territory" (Lecco,

Italy, July 3-5, 2019). The congress is intended to promote exchanges on the role of geotechnical research and its findings regarding the protection against natural hazards, design criteria for structures and

infrastructures, and the definition of sustainable development strategies. The contributions cover a diverse range of topics, including infrastructural challenges, underground space utilization, and sustainable construction in problematic soils and situations, as well as geo-environmental aspects such as landfills, environmental and energy geotechnics, geotechnical monitoring, and risk assessment and mitigation. Selected by means of a rigorous peer-review process, they will spur novel research directions and foster future multidisciplinary collaborations.