

Introduction to the special issue of Soils and Rocks entitled “8th Brazilian Conference on Slope Stability – COBRAE 2022”

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Editorial

This special issue includes the publication of 16 articles which were selected out of 235 papers presented at the 8th Brazilian Conference on Slope Stability - COBRAE 2022. The conference was held in Porto de Galinhas, PE, Brazil, between the 23rd and 26th of November 2022 and was attended by 500 people. The articles published in this special issue of Soils and Rocks are extended and improved versions of the papers originally published in the conference proceedings. The Willy Alvarenga Lacerda Conference, presented by Leonardo Cascini from the University of Salerno, Italy, is also included in this special issue.

The theme of the conference, “Slope stability in society and infrastructure”, aimed at contributing to sustainable and resilient development. The conference featured a program and thematic areas that directly addressed different contexts covering central themes such as mass movement on slopes, geological-geotechnical investigations, geological mapping and risk management, slope and embankment behavior, engineering solutions, instrumentation and monitoring, submarine, and mining slopes. There was also a round table on “Disasters Associated with Gravitational Mass Movements”, in a special session, and the II Reageo/ INCT Workshop.

The relevance of this special issue of Soils and Rocks can be seen in its contribution to the development of technical and academic knowledge of geotechnical engineering in the face of the major mass movement events that have occurred in Brazil in recent years in cities such as Recife, Rio de Janeiro, Salvador and some places of the state of Santa Catarina and other regions, resulting from heavy rains and marked by landslides in inhabited risk areas. Also notable were the Mariana and Brumadinho disasters resulting from the collapse of mining tailings dams, which are directly linked to the topic of slope stability.

The organizing and scientific committees of the conference would like to thank all the authors and reviewers for their contribution to this special issue.

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