

Report on the 5th Joint International Symposium on Deformation Monitoring (JISDM)

20-22 May 2022, Valencia, Spain

Under the endorsement of the FIG, IAG and ISPRS, the JISDM symposia series is a leading forum in the field of deformation monitoring for more than 40 years. The symposium aims to promote the advancement in deformation monitoring by bringing together traditional aspects of advanced surveying such as optimal measurement techniques and rigorous network analysis with increasingly important features such as 3D visualization, artificial intelligence and new sensors development.

The [5th Joint International Symposium on Deformation Monitoring](#) (JISDM) was held on June 20th – 22th in Valencia, Spain. The [Higher Technical School of Geodetic, Cartographic and Surveying Engineering](#) along with the [Department of Cartographic Engineering, Geodesy and Photogrammetry](#) at the [Universitat Politècnica de València](#) were the host institutions of this event.



The number of participants registered was 195 from 25 different countries. As customary, two types of contributions were allowed, peer review and non-peer review, so that experts with different profiles could equally contribute to the advancement of deformation monitoring. This edition included 90 oral presentations and 18 posters with topics related to technical, methodological, and practical advances in the field of deformation monitoring tackling landslides, debris flows and rockfalls, large engineering structures, metrology and tangible cultural heritage in archaeology and architecture. Two awards were offered for the best oral and poster presentations. In addition, 24 contributions were selected for further publication in special issues of two journals, [Journal of Applied Geodesy](#) and [Applied Geomatics](#).

Relevant keynote presentations were given by Dominique Missiaen (Conseil Européen pour la Recherche Nucléaire - CERN), Res. Prof. José Fernández (Institute of Geosciences IGEO- CSIC/UCM, Spain), Prof. Alessandro Capra (University of Modena and Reggio Emilia -UNIMORE) and Prof. Werner Lienhart (Graz University of Technology -TU Graz). They illustrated the key points of deformation monitoring from different perspectives like high-precision surveying, geohazards or geomatics applied to environmental and cultural heritage. They also shared their vision on the evolution of technologies and methods in the planning, analysis and visualization of deformation monitoring for both natural phenomena and man-made structures.

Lastly, the proceedings of the 5th Joint International Symposium on Deformation Monitoring are being considered to be indexed in the Web of Science. The quality of the scientific contributions

deserves indexation. The number of consolidated research groups, the variety of topics and the quality of the contributions allow us to dream of a successful promising future in the deformation monitoring field.

Looking forward to seeing you all with new developments and ideas ready to be shared and discussed in the next 6th JISDM.



Prof. Luis García-Asenjo



Prof. José Luis Lerma

JISDM 2022 co-chairs