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Nota di contenuto	Part I – Reference Systems and Frames -- Opportunities with VLBI Transmitters on Satellites -- Formation of a GNSS Network in Space Based on Simulated LEO Constellations -- Practical Considerations of VLBI Observations to the GENESIS Mission -- Terrestrial Datum Definition Methods in VLBI Global Solutions -- On the Potential of Accelerometers for GNSS on Satellite Positioning and Ensuing Reference Frame Determination -- On DORIS Precise Orbit and Reference Frame Determination Based on the ITRF2020 Using Multiple Altimetry Satellite Missions -- Realisation of the Non-rotating Terrestrial Reference Frame by an Actual Plate Kinematic and Crustal Deformation Model (APKIM2020) -- A Functional Model for Quantifying Deformation in Reference Frame Transformations -- Combined Global GNSS Velocity Field -- Geophysical Loading Correction Comparison and Assessment in VLBI Analysis -- Exploring Non-tidal Atmospheric Loading Deformation Correction in GNSS Time Series Analysis Using GAMIT/GLOBK Software -- Relevance of PSInSAR Analyses at ITRF Co-location Sites -- The DIA-estimator for Positional Integrity: Design and Computational Challenges -- EPOS-OC, a Universal Software Tool for

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Sommario/riassunto

This open access volume contains 46 selected papers from the symposia organised or co-organised by the International Association of Geodesy (IAG) in the framework of the 28th General Assembly of the International Union of Geodesy and Geophysics (IUGG). The conference was held in Berlin, Germany, from 11 to 20 July under the theme "Together again in the geosciences". It marked a return to face-to-face meetings after the pandemic restrictions. A total of 4,884 participants from 100 countries attended, of whom 607 registered for the IAG. The Assembly featured a total of 3,200 oral presentations and 1,300 poster

presentations, of which 661 were related to the IAG.