

## Philippine Geomatics Symposium 2025: Preface

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Since its establishment in 2012 by the Department of Geodetic Engineering and the Training Center for Applied Geodesy and Photogrammetry of the University of the Philippines, the Philippine Geomatics Symposium (PhilGEOS) 2025 has served as a platform for sharing scientific developments and promoting technological progress in the field of geospatial sciences. PhilGEOS 2025 affirms the sustained efforts of the geospatial community in the Philippines to advance the field and reinforce the country's presence within regional and international networks. Over the past years, PhilGEOS has consistently demonstrated the role of geomatics to support national development initiatives, enriching scientific inquiry and guide evidence-based decision making.

The 2025 edition of the symposium has adopted the theme "Enhancing Human Quality of Life through Spatial Technologies." This focus underscores the growing awareness that spatial information, analytical frameworks, and geospatial systems are indispensable in responding to emerging societal challenges. Submissions in the symposium aim to address issues that are central to enhancing the efficiency, resilience, and inclusiveness of rapidly evolving urban and natural environments.

Papers in this volume present a diverse range of geospatial research that covers land cover mapping, environmental monitoring, urban studies and methodological innovation. Submitted manuscripts explore topics involving land use classification, sediment transport, climate-related environmental dynamics and applied remote sensing, which reflects efforts to refine spatial data quality and expand analysis in GIS and remotely sensed observations. Papers also include resource management, ecosystem assessment, infrastructure analysis, and geospatial modeling techniques. These contributions demonstrate the role of spatial technology in supporting sectoral planning and environmental policy.

The 33 papers in the ISPRS Archives volume of PhilGEOS 2025 exhibit methodological rigor and practical relevance, and have undergone a double-blind extended abstract review, prior to submission and another round of review of the submitted full paper. This has been made possible through the work of the members of the Scientific Review Committee members, coming from various institutions not just from across the Philippines, but also from across Asia, Europe and the Americas.

Ultimately, PhilGEOS 2025 aspires to advance a vision of a society where spatial information supports informed decision-making, which enhances resilience and promotes sustainable development for all. We encourage readers to draw inspiration from the work presented here and continue expanding the boundaries of geospatial science.