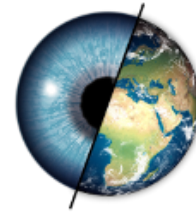# P A N A Y O T I S   P A R T S I N E V E L O S

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Dr. Partsinevelos is a professor in the areas of **Space Informatics** including **Geographic Information Systems** (GIS), Satellite **Remote Sensing** and **Uncrewed Aerial Systems** (UAVs) in the Technical University of Crete. He received his PhD in **Spatial Information Science & Engineering** from the University of Maine, part of the National Center for Geographic Information and Analysis (NCGIA) of USA and in a NASA sponsored center of excellence Remote Sensing Laboratory. He holds a Dipl. Eng. degree in **Surveying Engineering** from the National Technical University of Athens and has worked as a postdoctoral researcher in the Academic and Research Computer Technology Institute in Greece and as a GIS expert in the public sector. Besides his scientific publications, editorial positions and research projects as a coordinator, Dr. Partsinevelos has served as an invited speaker on the fields of research and innovation, eGovernment, smart cities, etc., and as the National representative of Galileo and Copernicus Masters competitions in the area of Space innovation.

Dr. Partsinevelos directs the **Space Informatics Research Team, SenseLab,** comprising of more than 30 multi-disciplinary students and researchers. Senselab research interests include Location-based services, tangible GIS, 3D reconstruction and point cloud processing, spatial database querying, navigation in GNSS-denied environments, satellite image processing, multi-spectral imagery, spatiotemporal data management and visualization, spatial intelligence, smart cities, etc. SenseLab covers a large scale of **UAV related research**, spanning from the design to the implementation phase. More specifically, drone related activities of the team include UAV custom construction, autonomous behavior, algorithms and image processing, multi-modal navigation, object detection and tracking, hardware programming, GNSS coordinate precision enhancement fusing drones, on-board and real time analysis of collected data, real coordinate geolocation of targets, automation in precision landing on moving platforms, gestural navigation, AI-deep learning algorithms for 3D mapping and navigation, swarm collaborative missions, autonomous collaboration with unmanned terrestrial systems, etc. The laboratory has been constructing custom drones of various types and sizes for a series of applications including, three-dimensional photogrammetric mapping, rockfall monitoring, indoors mapping, search & rescue, archaeological mapping, wetland and coastal monitoring, agrifood applications, powerline and infrastructure inspection, thermal inspection, underwater mapping and navigation, etc.

Beyond basic and applied research, SenseLab constitutes a renowned entity for innovative technology implementations certified by a series of prestigious international awards and distinctions including: 2022 Copernicus masters, finalists**, Federal Ministry for Digital and Transport of Germany**, 2019 **Airbus** competition winners, Toulouse, 2018 **RMIT** drones for refugees winners, Amman, 2017 Space Oscars winners, Tallinn, 2016, European **GNSS** Service (GSA), 1st place globally, 2016 ESNC Satellite masters, 2nd overall winners, (400 teams), Madrid, 2016 UAE **Drones for Good** (1st in EU and 3rd internationally between 1017 applicants from 165 countries), Dubai, 2016 **DJI** drones Developer Challenge (short-listed), USA, 2015 Copernicus Masters NCMA, 1st winner in Remote Sensing visualization, Berlin, 2015, **European Space Agency** finalists for Satellite Competition, etc.

For a more detailed CV, please visit:

https://www.mred.tuc.gr/fileadmin/users_data/mred/cv_DEP/CV_Partsinevelos_webpage.pdf