

EXPRESSION OF INTEREST FORM

This Expression of Interest (EOI) document has been prepared to enable researchers of Istanbul Technical University (ITU) to be rapidly and effectively included in existing and potential consortia, primarily within the scope of Horizon Europe and other International Programmes.

The information collected through this form will be used by the ITU International Projects Office for the following purposes:

- Matching researchers with ongoing consortium searches,
- Communication with international project partners,
- Targeted invitations and information dissemination for relevant calls.

Contact Person/Scientist in charge <i>(data of the principal investigator of the research group/lab or scientific supervisor)</i>	Name	Ugur
	Surname	Alganci
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Laboratory /Department /Institute /Centre /	Name	Istanbul Technical University (ITU), Department of Geomatics Engineering
Brief description of the Centre/Research Group <i>(Please provide a brief description of your research group or organisational unit, including research infrastructure, laboratory facilities, team size and industry collaborations.)</i>		<p>The research group, operating within the Department of Geomatics Engineering at Istanbul Technical University, focuses on advanced geospatial technologies and spatial data analytics. Its work spans remote sensing, geographic information systems (GIS), Geospatial Artificial Intelligence (GeoAI), and environmental monitoring. The team has extensive experience processing multi-source geospatial datasets, including satellite imagery, UAV imagery, LiDAR point clouds, and ground-truth or in-situ measurements.</p> <p>Research activities cover a broad range of applications such as land-use and land-cover change analysis, urbanization studies, forest type mapping and deforestation assessment, agricultural monitoring, object detection and semantic segmentation, and bathymetric modelling. A key emphasis is placed on integrating machine learning and deep learning methods to extract meaningful information from large-scale geospatial datasets, particularly for object detection and semantic segmentation tasks.</p> <p>The group actively collaborates with national and international partners through EU-funded and TÜBİTAK projects, contributing to methodological developments, spatial modelling, and AI-supported geospatial data analysis for environmental monitoring and decision-support systems.</p>
	Address	ITU, Istanbul Technical University, Civil Engineering Faculty, Department of Geomatics Engineering, 34469 Maslak, Istanbul, Türkiye
Research Area <i>(Please provide 5–10 keywords that best describe your research areas and expertise.)</i>		Remote Sensing (RS) Deep Learning (DL) Environmental Monitoring Agricultural Mapping (Cultivation mapping, yield estimation) Bathymetric Modelling with Optical Images

<p>Please list your relevant previous projects, indicating the programme, project name, year and role.</p>	
<p>Proposed Project Idea or Area of Interest: (If applicable, please briefly outline a concept idea, the problem you aim to address, or your specific area of interest.)</p>	<p>The research group is interested in interdisciplinary projects focusing on the integration of remote sensing, GIS and GeoAI for environmental monitoring, climate change analysis and disaster management.</p>
<p>Potential Contributions to Projects</p>	<p>X Scientific / technical research X Methodology development X Modelling / simulation X Data analysis / artificial intelligence X Experimental studies / testing X Pilot / demonstration activities X Socio-economic analysis / policy contribution X Education, dissemination and impact activities X Other (please specify): DL based spatial modelling</p>
<p>Preferred Role in Consortia</p>	<p>X Coordinator X Partner</p>
<p>Programmes and Calls of Interest (Please indicate the programme(s) you are interested in and, if possible, specify the call identifier and/or title.)</p>	<p>X Horizon Europe Clusters X Erasmus+ X Digital Europe <input type="checkbox"/> EIT (HEI / KIC, etc.) X MSCA <input type="checkbox"/> ERC X Other (please specify): TÜBİTAK International Calls Specific call identifier and/or title:</p>
<p>Additional Notes (Please provide any additional information or specific remarks you would like to share with the International Projects Office.)</p>	<p>The group welcomes collaboration with international academic institutions, research organizations, and industry partners and is open to both coordinating and participating in international research consortia.</p>