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GUIDOS - GIS and Classification Tool

Product Owner :	DG JRC European Commission
Category :	Software Products
Stage of Commercial Development:	commercially available

GuidosToolbox (Graphical User Interface for the Description of image Objects and their Shapes) contains a wide variety of generic raster image processing routines, including related free software such as GDAL (to process geospatial data and to export them as raster image overlays in Google Earth), and FWTools (pre/post-process and visualize any raster or vector data). All tools are based on geometric principles and can thus be applied at any scale and to any kind of raster data. GuidosToolbox also includes MSPA (Morphological Spatial Pattern Analysis), a customized sequence of mathematical morphological operators targeted at the description of the geometry and connectivity of the image components.

Application & Target Markets :
This tool allows to:

- Landscape Mosaic,
- Fragmentation
- Cost analysis: cost map, least cost path, bypassing an obstacle, and user-driven cost zones

Competitive Advantages :
Open source GIS and classification tool

Details :

License / Copyright:	Free and open source
License Info :	http://forest.jrc.ec.europa.eu/download/software/guido https://cnr.ncsu.edu/geospatial/about/geoforum/
Costs :	For free

Type of Software:	GIS and remote sensing
Case Studies :	Maps of Cost analysis and Morphological change detection (NO WORKING LINK)
E-learning, Tutorials and Supporting Material :	D7.1 Draft tutorials and multimedia products
WFD Objectives :	Characterization of water bodies (including mapping), Pressures and impacts, Public participation, Data processing (spatial or geographical), Planning process, Infrastructure planning
Issue :	Ecological or chemical status, Ecosystem services and Urban areas.
Relevant Water Bodies:	Rivers, Lakes, Artificial and heavily modified waterbodies and Protected areas.
Target User Group:	Research organisation, Government (and associated bodies) - policy, Government (and associated bodies) - practitioners and Regulator.
Type of Input requirements :	Satellite imagery or Land Cover Maps.
Type of Output :	Maps of land cover, Land Cover Change, Fragmentation Analysis.

Supported Standards

Standard Category :	▪ Data Visualization

Version :	2016/05
Project :	guidos
Project & Promotional Material About the Product :	▪ Software Website
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Partners