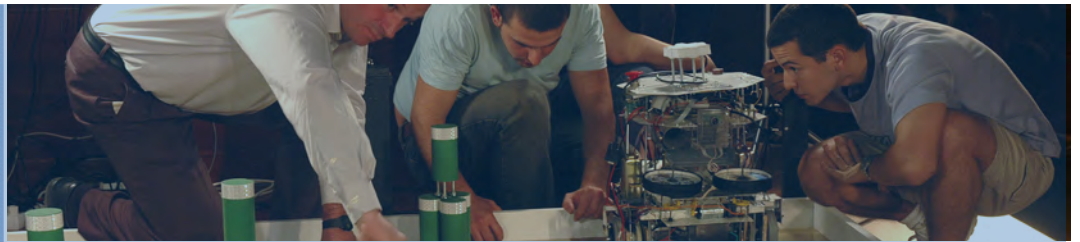# Universidad de Alcalá

GEOGRAPHIC INFORMATION TECHNOLOGIES AND SPATIAL ANALYSIS

Code 587

TIGAT

RESEARCH AREA

Technological sciences, Social sciences

COORDINATOR

Montserrat Gómez Delgado

KEYW ORDS

Assets location, Modeling, Land use changes, Urban growth simulation, Geographic information systems

AIM

- Public sector: Administration in the field of land planning
- Private sector: consultancy on land, environment, health, archaeology and land planning related issues.

CONTACT

✉

montserrat.gomez@uah.es
Teléfono: 5261
Departamento de Geología, Geografía y Medio Ambiente
Universidad de Alcalá
C/ Colegios, 2. 28801 Alcalá de Henares,
Madrid

TIGAT

ABOUT US

The term "Geographical Information Technologies" (TIG) encompasses a wide range of spatial analysis tools (GIS, cartography, remote sensing ...) used to collect and to analyze digital information on the territory, which constitute crucial tasks in economic and social development, in environmental management, in good governance and in public participation initiatives.

The group leads research on the application of GIT to these areas since the early times of GIS in the 1990's. Our main objective is to apply research on GIT to various territorial issues, to contribute to enhance land planning and to offer products and services based on geolocated information to the public sector, to the citizens, and to the industry.

RESEARCH LINES

- Application of GITs to socio-territorial issues (land use changes, location of assets and facilities, risk mapping, simulation of urban growth, etc.)
- Geography of plants and vegetation
- GIS and health
- Thematic mapping
- GIT in Geography education

OFFERED SERVICES

- Consulting on diagnosis and optimal location of assets and facilities for public and private use, risk mapping, land use change modeling.
- Land planning: analysis and simulation of urban growth and its sustainability.
- Scientific production of thematic cartography, design and production of thematic atlases, mapping of landscapes, tourist resources, etc.
- Geographical analysis and mapping of flora and vegetation
- Advice, training, professional development in GIT

MARKETABLE RESULTS