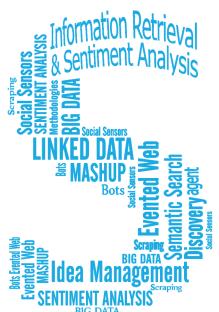
## INTELLIGENT SYSTEMS GROUP







SOCIAL SIMULATION
PERSONAL ASSISTANT EMOTION ANALYSIS LINKED DATA

Disconny TASK AUTOMATION Semantic Search &

UPM

## Presentation | Who we are

The Intelligent Systems Group (GSI, Grupo de Sistemas Inteligentes) is a research group acknowledged by the Technical University of Madrid (UPM, Universidad Politécnica de Madrid).

Our staff consists of 11 professors, 7 researchers and collaborators from several departments of the university, mainly from the Department of Telemantic Systems Engineering (DIT, Departamento de Ingeniería de Sistemas Telemáticos).

Since 1982, our group has conducted research, development and innovation in theories, methods and applications of artificial intelligence techniques, specially in intelligent agents, semantic technologies, machine learning and language engineering.

## **LATEST PROJECTS**



H2020 MixedEmotions Social Semantic Emotion Analysis for Multilingual Big Data Analytics



FP7 Eurosentiment Linguistic Linked Data for Sentiment and Emotion Analysis



FP7 SmartOpenData Linked Data for Environment



FP7 Omelette Semantic Discovery for Telco Mashup Development



FP7 Romulus Domain Driven Design for Mashup Development





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## Research lines & Applications

Big Data & Machine learning Distributed diagnosis

Semantic search and social ranking
Social network analysis
Big Social Simulation

**Agent & Social Simulation** 

Personal assistants
Intelligent automation in IoT
Mediator Agents

Methodologies

Simulation of social networks and IoT spaces

**Linked Data & Semantic Technologies** 

Linked data visualisation

GeoLinked Data
Idea Management & Innovation

**Information Retrieval** & Emotion Analysis

Sentiment and Emotion Analysis in Social networks

Semantic search and ranking algorithms

**NLP interfaces & Bots** 

Web & Service Engineering

Semantic scraping Semantic annotation of mashups Semantic Service Discovery