



POLITÉCNICA



Grupo Internet Nueva Generación

ETSIT – DIT – UPM

Álvaro Alonso – alvaro.alonso@upm.es

GING

Dic 2024

<https://ging.github.io>

dit
UPM

Professors



Álvaro Alonso



Joaquín Salvachúa



Gabriel Huecas



Santiago Pavón



Enrique Barra



Aldo Gordillo



Pedro Reviriego



Alejandro Pozo



Andrés Muñoz



Javier Conde



Juan Quemada

Capacities and resources

- Large group with 10 full time professors and 30+ persons
- Strong track record on H2020/HE and EIT- DIGITAL projects
- Can bring in industrial (large and SMEs) and institutional partners to consortiums
- Involved in GAIA-X, FIWARE and other data related EU initiatives
- Experts on Data Spaces, Big Data processing systems, Cloud
- Experts on Generative AI focusing on model evaluation, GPU infrastructure (A100 and A6000)

Application fields of interest for 2025

- Data spaces technologies
- Data spaces use cases
- IA factories
- GenAI model evaluation
- GenAI use cases

Research lines

- Data infrastructure and processing

- Gaia X and FIWARE contributors
- Data Spaces – Data governance
- Data Infrastructure - ETL
- Cloud - Edge Computing orchestration
- Security and Identity (IAM – AC – Data Usage Control)
- eIDAS 2 – eID - SSI
- IoT - Industry 4.0
- Digital twins infrastructure
- Public Open Data
- Big Data and ML applications
- Performance evaluation of LLMs

- Distributed videoconferencing systems

- WebRTC MCU - SFU
- Remote Simultaneous Interpreting

- Blockchain

- Application development
- DAO – based application
- New Consensus algorithms
- Self Sovereign Identity

- Web and mobile app design

- eLearning

- ViSH (ViSH Editor, Ediphy)
- Educational games and escape rooms
- Educational Data Virtual Lab
- MOOCs

- Design of High Speed Switches

Lectures and teaching

- Courses at ETSIT:

- Programming
- Microservices design
- Full stack web and mobile engineering
- HCI and Interaction Design
- Cloud Computing and Devops
- Relational and NoSQL Databases
- Security and identity
- Big Data applications, architectures and deployments
- Data spaces and application-service orchestration
- Multimedia applications
- Blockchain and distributed agreement protocols
- Information theory

- MOOCs

- Full stack development

- Company training

- Machine learning
- Cloud Computing
- Virtualization
- Web and mobile development

Links of interest

- Research group
 - <https://ging.github.io>
- SMARTY Project
 - <smarty-project.eu>
- EUNOMIA Project
 - <https://eunomia.dit.upm.es>



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