THE *MISO* GROUP

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Computer Science Department
Universidad Autónoma de Madrid (Spain)

THE AUTONOMOUS UNIVERSITY OF MADRID

Universidad Autónoma de Madrid

- Established in 1968
- North part of Madrid (*campus Cantoblanco*)
- One of the top universities in Spain
- >30000 students
- "*Excellence*" campus with CSIC (Spanish Research Council)

Computer Science and Telecommunication Engineering

- Created in 1992
- 96 full time professors
- Joint diploma Comp.Sci.-Maths

THE MISO GROUP

Modelling and Software Engineering Research Group

Professors:

- Juan de Lara, PhD (Catedrático)
- Elena Gómez, PhD (Ayudante doctor)
- Esther Guerra, PhD (Profesora titular)

PhD students & Researchers:

- Antonio Garmendia, PhD (FPI)
- Pablo Gómez (Ayudante, PhD student)
- Sara Pérez (research associate, PhD student)
- Ángel Mora (PhD student)
- Lissette Almonte (PhD student, ITN Lowcomote)
- Lea Brunschwig (PhD student, ITN Lowcomote)
- Sandra Juárez (research associate)
- Alberto Sebastián (research associate)

External and collaborators:

- Fatima Rani (PhD student, UGROUND, ITN Lowcomote)
- Jesús Sánchez, PhD (U. Murcia)
- Santiago Jácome, PhD (U. Fuerzas Armadas, Ecuador)

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3

OUR RESEARCH:
MODEL DRIVEN ENGINEERING

Domain-Specific Languages

Model-Transformations

(Meta-)Modelling

Flexibility

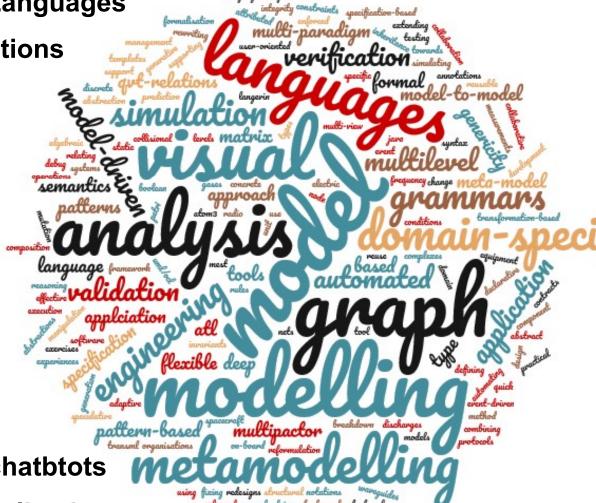**Scalability**

Reuse

Mobile apps

Open data

Social networks, chatbtots

Streaming data applications

MAIN RESEARCH TOPICS

(Meta-)Modelling

- Flexible modelling (multi-level modelling, a-posteriori typing, facets)

Domain-Specific Languages

- Scalability (model fragmentation policies)
- Active DSLs (modelling through mobile devices)
- Modelling through Natural Language (via chatbots)
- Automated synthesis of chatbots (given domain models)

Transformations

- Verification, reuse

Variability

- Language product lines
- Petri net product lines

THANKS!

Questions?

**modelling &
software engineering
research group**

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