



University of Málaga (UMA)

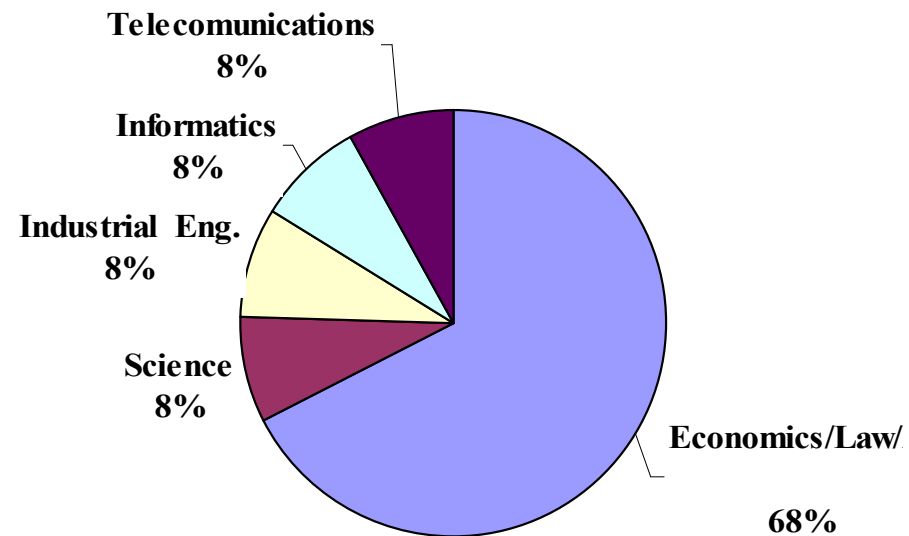
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University of Málaga

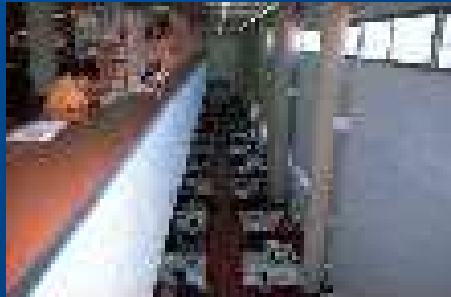
● Students	40.000
● Graduated per year	4.500
● Teachers / researchers	1.900
● Administration	1.400
● Faculties/Schools	16
● Annual Budget	120 M€
● Research groups	220
● Active projects	183
● Revenue	11 M€



University of Málaga



Informatics at UMA



Informatics at UMA

● Students	3.000
● Teachers / researchers	130
● PhD students	50
● Contract R+D Engineers	15
● Technical Staff	12
● Active projects (1.3 M€)	15



Research Groups close to ERCIM fields of Competence

- **Software Engineering Group**
- **Computational Techniques in Engineering**
- **Research and Applications in Artificial Intelligence**
- **Applied Mathematics**
- **Computer Architecture**



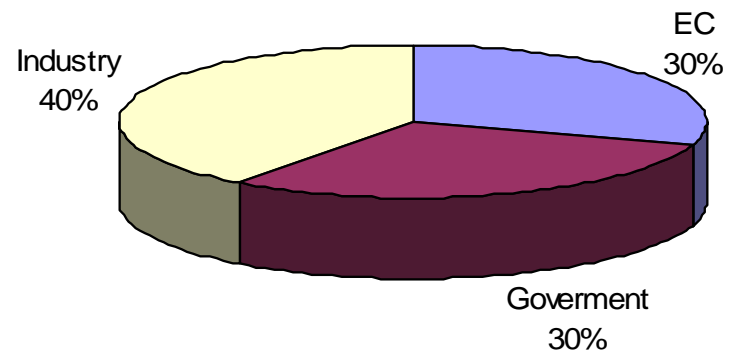
Research Groups close to ERCIM fields of Competence

- **Personnel now involved in ERCIM activities:**
 - **Researchers** **34**
 - **PhD Students** **15**
 - **Supporting Staff** **3**



Turnover

- 300.000 Euros (last 5 years)



Projects/Publications (5 years)

- 15 Research projects
- 15 Projects with Industry
- 1 EU R&D Contract
- 1 patent
- 40 Int. Journals/Book chapters
- 150 Int. conferences
- 15 PhD Thesis



R&D Projects

- University of Extremadura (2 joint projects)
- University Complutense of Madrid (2 joint projects)
- Technical University of Valencia (3 joint projects)
- Technical University of Catalonia (2 joint projects)
- University Rey Juan Carlos (1 joint project)
- University Carlos III of Madrid (1 joint project)



R&D Projects

- University of Pisa (1 joint project)
- University of Lisbon (1 joint project)
- University of La Habana (1 project)
- University of Comahue (Argentina) (1 project)
- GMD (Fraunhofer) , Germany (1 project)
- City of Cologne, Germany (1 project)



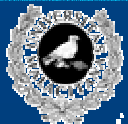
Projects with Industry

- Alcatel S.A. (1 project)
- Tecnatom S.A. (5 projects)
- IVESUR, S.A. (1 project)
- Fundación Carlos Haya (1 project)
- Fundación RETEVISIÓN (1 project)
- Sadiel, Spain (1 project)
- Hewlett-Packard Labs, UK (1 project)
- NetUnion, Switzerland (1 project)
- Norwegian Computing Centre, Norway (1 project)
- Solinet, Germany (1 project)
- Teletel, Greece (1 project)



Some Research lines

- **Formal Methods for Software Engineering**
- **Software Architectures**
- **Information Security for Distributed Applications and Systems**
- **Databases**
- **Evolutionary Algorithms and Optimization**



Some Research lines

- **Formal Methods for Software Engineering**
- Software Specification and Verification,
Model Checking,
Declarative Programming and Paradigms Integration,
Real-Time systems.
- **Evolutionary Algorithms and Optimization**



Some Research lines

- Formal Methods for Software Engineering
- **Software Architectures**
- Software Architecture Specification
- Component Based Systems,
- Aspect Oriented Programming,
- Multimedia Application Frameworks.



Some Research lines

- Formal Methods for Software Engineering
- Software Architectures
- Information Security for Distributed Applications and Systems
- Authentication and Authorization Services,
- Design and Analysis of Cryptographic Protocols, Internet Security, Electronic Commerce Security



Some Research lines

- (Distributed) Evaluation and Optimization of (Recursive) Queries
 - Quantitative and Qualitative Cost Models for Query Evaluation,
 - Integrated Querying and Reasoning in the Semantic Web,
 - Heterogeneous Data Source Integration
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- **Databases**
 - **Evolutionary Algorithms and Optimization**



Some Research lines

- **Formal Methods for Software Engineering**
- **Software Architectures**
 - Evolutive algorithms,
 - Exact and heuristic Optimization Algorithms,
Parallelism and Grid Computing.
- **Evolutionary Algorithms and Optimization**



UMA relation with ERCIM

- **CASENET (IST 2001-32446, 2002-2004):**
 - “Computer-Aided Solutions to Secure Electronic Commerce Transactions”
 - Coordinated by Fraunhofer Gesellschaft (Germany)
- **FMICS Working Group (since 1996)**
 - Authors, Programme Committee, FMICS 02
- **Proposal for new ARTIST :**
 - **Cluster for Integrating Verification Tools**
 - INRIA (France), CRCIM (Czech Republic), CRC (Italy)



UMA Interest in ERCIM

- **Join to:**
 - Soft Computing
 - Dependable Software-Intensive Systems
- **Reactivate:**
 - Database
 - Programming Languages
 - Electronic Commerce
- **Increase participation in FMICS**
- **Fellowship program**
- **NeOs and IPs in 6th Fw. Programme**

