



LABORATOIRE D'INFORMATIQUE DE L'UNIVERSITE DE PAU ET DES PAYS DE L'ADOUR IT LABORATORY OF THE UNIVERSITY OF PAU AND THE ADOUR

APPLICATION SECTORS

- Aerospace
- Oil industry
- Aquatic resources
- Smart cities and buildings
- Education

PARTNERSHIPS

INDUSTRIAL

COLOR DIMENSIONS, DSTC Consortium, EADS, EXAMECA, FRANCE TÉLÉCOM, R&D, OKTAL, PHILIPS, TOTAL, TURBOMECA, NOBATEK, THALES, Cogniteev

INSTITUTIONAL

Pau Béarn CCI, CERT-ONERA, CNRS, European Commission, IFP, IRA, OPERA, UPV, Zaragoza University, Mondragon University, IFREMER

EUROPEAN AND INTERNATIONAL PROJECTS

- **PIREGRID**: POCTEFA inter-reg.

STAFF

- 35 teacher-researchers
- 15 PhD students
- 1 Post PhD student
- 2 support staff

RESEARCH AREAS

- Information and communication sciences and technologies
- Software engineering
- IT security
- Signal and image processing, 3D modelling, scientific visualisation
- Mobility
- Social computing

SKILLS AND KNOWLEDGE

Information systems and man-machine interaction:

- ✓ Modelling and management of digital ecosystems.
- ✓ Electronic document engineering: RDF, OWL, X-schema.
- ✓ Content semantics: extraction and indexing of spatio-temporal information, research by content.
- ✓ Multimodal interfaces, intelligent interfaces.
- ✓ Collaborative engineering, E-learning: LOM, UML profiles.
- ✓ Management of events and testing resources in networks of sensors.
- ✓ Protection of private life on the internet.

Software engineering and distributed systems:

- ✓ System modelling, checking, validation and encoding: UML, Java, SysML.
- ✓ Design and roll-out of solutions using software components and agents: EJB, NET, SOA.
- ✓ Definition and implementation of security measures for networks and databases.
- ✓ Context-aware middleware.

Digital / 3D images / Visualisation:

- ✓ Computer vision: motion detection, video segmentation, remote surveillance, facial analysis, compression and transmission of images.
- ✓ 3D modelling, meshing: OpenGL, GPGPU, Open CL.
- ✓ Data visualisation: ParaView.

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