



## R&D Capabilities

Departments, centres and research institutes of the UAB<sup>CIE</sup> Sphere have demonstrated excellence in their field of R&D, promoting multi-disciplinary research and knowledge transfer.

Therefore, we promote collaboration, information sharing and the creation of agreements between research centres and companies with the aim of increasing innovation and business competitiveness.

In this section we present the scientific and technological capacities of the research groups of the Esfera (Sphere) UAB<sup>CIE</sup> organized by subject.



APPLICATIONS	SOLUTIONS
Computer Vision	Interactive and Augmented Modelling
	Document Analysis
	Advanced Driver Assistance Systems
	Image Sequence Evaluation
	Machine vision
	Robot Vision
	Colour in Context
	Medical imaging
Electronics, microelectronics and nanoelectronics	Object recognition
	Micro-nano-bio systems
	Devices and Power Systems
	Transducers for chemical and biochemical sensing
	Electronic Circuits and Systems
	Computational nanoelectronics
	Antennas
Information processing	High-speed communications
	Combinatorial and algebraic coding
	Compression
Operating Systems	Cryptography and computer security
	Distributed systems and the Internet
Artificial Intelligence	Parallel and distributed systems
	Logic and reasoning
	Learning Systems
	multiagent systems

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Programming	Design, Accessibility and Reception
	Modelling, Virtual Design and Development, Videogames
	Interactivity and Multimedia Platforms
	Speech Technologies
	Computing technologies and Printed Electronics
	Embedded systems
	Apps development

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