

ARV RESEARCH TOPICS (KEY WORDS)	ARV TEACHING STAFF
Symbolic task planning, Manipulation of deformables, Robot vision, Learning, Assistive robotics	ALENYÀ RIBAS, GUILLEM
Neural Networks, Pattern Recognition, Computer Vision, Mobile Robotics, Machine Learning	ALQUEZAR MANCHO, RENÉ
Mobile robotics, computer vision, Simultaneous Localization and Mapping (SLAM)	ANDRADE CETTO, JUAN
Bioacoustics	ANDRE, MICHEL
Support Vector Machines, Cognitive Robotics, Ambient Assisted Living, Ubiquitous Computing	ANGULO BAHON, CECILIO
Robotics Computer vision	ARANDA LÓPEZ, JUAN
Telerobotics, robot coordination, active perception, sensor integration, pattern recognition, networking robots	BASAÑEZ VILLALUENGA, LUIS
Control and systems theory, Port-Hamiltonian systems, Model order reduction, Modelling and simulation, Electromechanical systems	BATLLE ARNAU, CARLES
Pattern Recognition, Time Series Analysis, System Identification, Stochastic Models, Machine Learning.	BENITEZ IGLESIAS, RAUL
Control	BIEL SOLE, DOMINGO
Fault Diagnosis , Fault Tolerant Control, Intelligent Control, Robust Identification, Sensor Placement	BLESA IZQUIERDO, JOAQUIM
LPV Control; LPV Modelling; Robust Control; Water management systems	BOLEA MONTE, YOLANDA
Assisted teleoperation, Surgical robotics, Rehabilitation robotics, Sensor based control, Medical robotics	CASALS GELPI, ALICIA
Machine Learning, Recurrent Models, Interactive Models, Interactive Models, Ambient Assisted Living, Human Motion Analysis	CATALA MALLOFRE, ANDREU
Optimal Control, Predictive Control, Large-scale systems, Nonlinear systems, Water Networks	CEMBRANO GENNARI, M. GABRIELA
Computer vision, Image processing, Pattern recognition, Mathematical morphology, Embedded systems	CLIMENT VILARO, JOAN
Industrial engineering, Quantitative management methods, Combinatorial optimisation, Supply chain management, Working time management	COROMINAS SUBIAS, ALBERT
Virtual / remote Laboratories, Repetitive / Resonant Controllers, Power Electronics Digital Control, Modeling and control of power converters using hybrid systems, Control System Interactive Design and Implementation	COSTA CASTELLO, RAMON
Nonlinear Control, Modeling of electromechanical systems, Electrical machines, Energy management systems	DORIA CEREZO, ARNAU
Fault diagnosis, Fault Tolerant Control, System identification, Prognosis and help management	ESCOBET CANAL, TERESA

Robotics, Mobile Robotics, Computer Vision, Pattern Recognition, Texture Analysis	GRAU SALDES, ANTONI
Control Theory and Engineering, Digital Control, Nonlinear Control, Power electronics	GRIÑO CUBERO, ROBERTO
Robot planning, Learning Robots, Object manipulation, Roboetics	JIMÉNEZ SCHLEGL, PABLO
Real-time systems, Networked and embedded control systems, Discrete-time control systems, Event-driven control systems, Industrial communications	MARTI COLOM, PAU
UAV Control, Intelligent control, Nonlinear systems	MORCEGO SEIX, BERNARDO
Computer vision, pose estimation, surfaces reconstruction, 3D reconstruction, object recognition	MORENO NOGUER, FRANCESC D'ASSIS
Model Predictive Control, Adaptive Control, Fault Diagnosis, Fault Tolerant Control, Nonlinear Systems	NEJJARI AKHI-ELARAB, FATIHA
Model Predictive Control, Large-scale systems, Industrial processes control, Modelling and Simulation, Non-linear systems	OCAMPO MARTINEZ, CARLOS AUGUSTO
Periodic solutions in Abel equations, Sliding mode control, Adaptive control, Networked control systems	OLM MIRAS, JOSEP MARIA
Logistics, Production, Planning, Programming, Scheduling	PASTOR MORENO, RAFAEL
Modelling, Control, Water systems, UAV	PEREZ MAGRANE, RAMON
Rehabilitation, Biomechanics, Virtual Human Simulation, Robotics applied to rehabilitation	PEÑA PITARCH, ESTEBAN
Computational Kinematics, Motion Planning	PORTA PLEITE, JOSEP MARIA
Fault Diagnosis, Fault Tolerant Control, Model Predictive Control, Hybrid Systems, Robust Control	PUIG CAYUELA, VICENÇ
Automatic control, identification and parameter estimation, fault detection and diagnosis, fault tolerant control, intelligent control	QUEVEDO CASIN, JOSEBA
Predictive control, Vibration control and smart structures, Damage detection, Control of hydro systems, Large scale systems and decentralized control	RODELLAR BENEDE, JOSE
Computational Kinematics, Multibody system mechanics, Singularity analysis	ROS GIRALT, LLUIS
Motion planning, Haptic guiding	ROSELL GRATACOS, JOAN
Machine Learning, Support Vector Machines, Qualitative Reasoning	RUIZ VEGAS, FRANCISCO JAVIER
Mobile robotics, Computer vision, Pattern recognition, Robot-Human interaction	SANFELIU CORTES, ALBERTO
Hybrid System Diagnosis, Sensor placement	SARRATE ESTRUCH, RAMON
Control, optimisation, operation, fuel cells, chemical processes	SERRA PRAT, MARIA

Grasping and manipulation in robotics, Planning in robotics, Use of mechanical hands, Telemanipulation, Human-robot interaction	SUAREZ FEIJOO, RAUL
Robot kinematics, Parallel robots, Geometric reasoning, Motion planning, Position analysis	THOMAS ARROYO, FEDERICO
Fault detection and diagnosis, fault-tolerant control	TORNIL SIN, SEBASTIAN
Robot manipulators, Manipulation of deformable objects, Parallel Robots, 3D Robot Vision, Cognitive Robotics	TORRAS GENIS, CARME
Discrete-time control systems, Event-driven control systems, Industrial communications	VELASCO GARCIA, MANEL