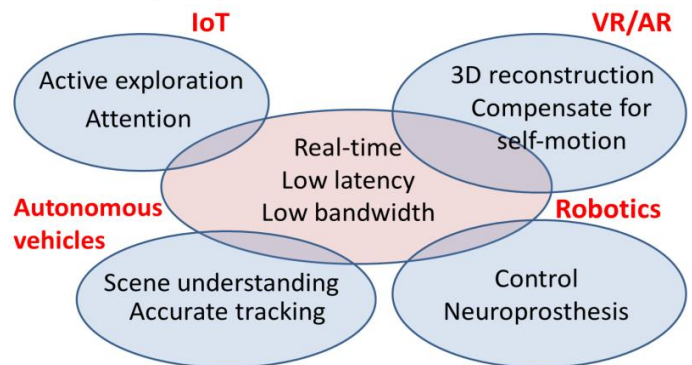


Dept. of Computer Architecture and Technology – Computer Vision and Robotics Lab

The University of Granada (UGR) is one of the most important Universities in Spain with 80.000 students, it was ranked 42nd in for Computer Science (2015 ARWU), 7th in Europe, top 1 in Spain.

Our CVR Lab has participated in 10 EU projects in the last 10 years and has a solid track record in scientific production. Our research is focused on active vision, retina-like sensors, hardware acceleration, and robotics. We have worked on optical flow, 3D structure from motion and reconstruction, foreground-background subtraction, multi-view geometry, autonomous navigation, robust tracking, object detection and action classification (see <http://atcproyectos.ugr.es/cvrlab/>).

Beyond classic passive vision sensors we strongly focus on sensors that can actively change the way they perceive the environment by adaptation or selection of the most important information driven by the task. To enable active vision, our research is also focused on architectures that achieve real-time performance. We have worked on GPU (real-time and low-latency) and FPGA architectures (also energy efficient). We have worked and are interested in different fields, specially: Advanced Driving Assistance Systems, autonomous navigation (also with UAVs), video-surveillance applications, IoT vision-related applications, and robotics. Check some videos of our applications here: <http://sl.ugr.es/videoescvrlab>



Recent EU Projects



Human Brain Project



EMC2



Tomsy

REAL-TIME ASoC



DRIVISCO



SENSOPAC

Flagship Project: Human Brain Project

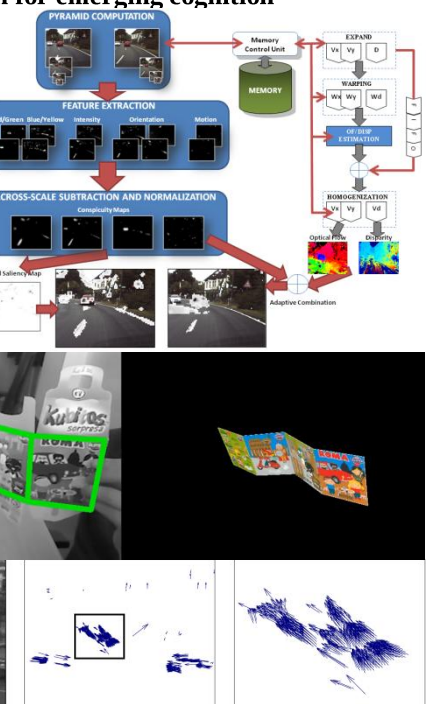
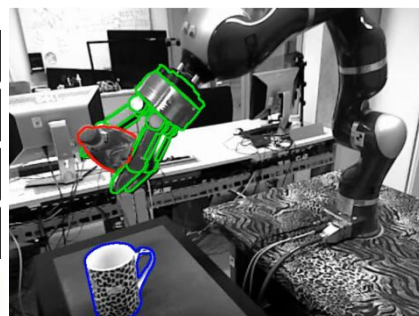
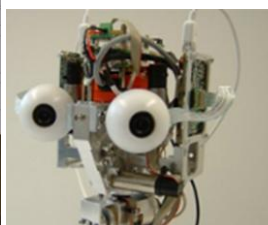
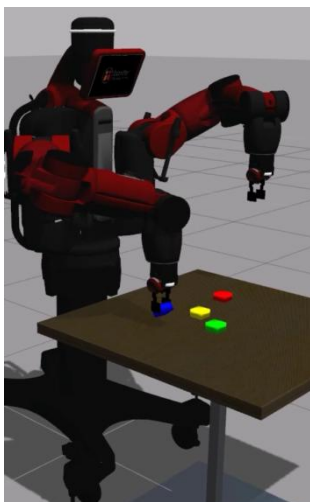
EMC2: Embedded Multi-Core systems for Mixed Criticality applications in dynamic and changeable real-time environments

Tomsy: Topology-based motion synthesis for dexterous manipulation

Bio-inspired hardware architectures for real-time attention mechanisms using prior contextual knowledge in cognitive robotics

Drivisco: Learning to emulate perception-action cycles in a driving school scenario

Sensopac: Sensory motor structuring of perception and action for emerging cognition



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