



Programa VI Jornadas CEA de Robótica y Visión

Patrocinado parcialmente por Acción Complementaria Red Visión

Jornada de Visión por Computador 2010.

Málaga, 19 de Mayo de 2010.

Dpto. de Ingeniería de Sistemas y Automática

Escuela de Ingenierías

C/ Doctor Ortiz Ramos, s/n.

Campus de Teatinos

29071-MÁLAGA SPAIN

HORARIO	PROGRAMA SOCIAL, 18 MAYO
21:30h	Cena Grupo Temático Visión por Computador Restaurante Mariano C/ Granados, 9. 29008 Málaga

HORARIO	PROGRAMA TÉCNICO, 19 MAYO
09:00-10:00	Reunión de trabajo Grupo Temático Visión por Computador
10:05-11:00	<p>Conferencia: The Oxford Mobile Robotics Group Dr. Gabe Sibley</p> <p>This talk will discuss the challenges of large-scale robotic mapping. Our attempt to build a map between Oxford and London over a distance of 120 km with 180GB of image and inertial data has highlighted numeral challenges. In particular, the problem of unobservable ego-motion is a strong indicator that a relative representation of the world is essential for challenging mapping tasks. We will present an efficient stereo vision SLAM solution based on a continuous relative representation of the world and provide a topometric estimation solution, relative bundle adjustment (RBA), to ensure local consistency and precise estimate with a bounded computational cost.</p> <p>http://www.robots.ox.ac.uk/RelativeSLAM</p>
11:00-11:30	Pausa-Café
11:30-11:50	"On-board and Ground Visual Pose Estimation Techniques for UAV Control". Ponente: Pascual Campoy (Univ. Politécnica de Madrid)
11:50-12:10	"Real-time image processing for the guidance of a small agricultural field inspection vehicle". Ponente: *Xavier Burgos-Artizzu*. (CSIC-UPM)
12:10-12:30	"Stereo vision specific models for particle filter-based SLAM". Ponente: Francisco Moreno (Univ. Málaga)
12:30-12:50	Procesamiento de imágenes de altas prestaciones basado en FPGAs" Ponente: Eduardo Ros (Univ. Granada)
12:50-13:10	"SLAM visual cooperativo. Detección y descripción de marcas visuales". Ponente: - Arturo Gil Aparicio (Univ. Miguél Hernández).
13:10-13:30	"1-Point RANSAC for EKF Filtering. Application to Real-Time Structure from Motion and Visual Odometry". Ponente: José María Martínez Montiel (Univ. Zaragoza)
13:30-13:50	"A Featured-Based Strategy for Stereovision Matching in Sensors with Fish-Eye Lenses for Forest Environments". Ponente: Gonzalo Pajares (Univ. Complutense de Madrid)
13:50-14:00	Clausura de la Jornada
14:00h	Comida