VIBOT Master

Elements of Geometric Computer Vision

Short course

Andrea Fusiello University of Verona

8/10 - 29/10 2008

Intro	oductor	and math Review	1h	5.3		Point transfer	
Pin-hole Camera Geometry (review) 2.1 The camera projection matrix . 2.2 Camera anatomy 2.3 Camera calibration (or resection)			1h	5.4	5.3.1 5.3.2	Euclidean Reconstruction Projective Reconstruction ocal constraints	
2.5	Carrier		Autocalibration		2h		
Two-View Geometry (review) 3.1 Epipolar Geometry			2h	6.1 6.2 6.3	A simp	ng argument	
3.6	Epipolar Rectification			Get	ting practical		2h
0.0	_p.p		7.1	7.1 Pre-conditioning			
4.4	Zhang' 4.4.1 4.4.2 4.4.3 Orient 4.6.1 4.6.2	Estimating extrinsic parameters Radial distortion Absolute orientation (with scaling) Exterior orientation	3h	7.2	7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 Robust 7.3.1 7.3.2	Geometric error for resection	
Multiple View Geometry			3h		7.3.3	LMedS	
5.1 5.2	The tri 5.2.1	I geometry					