

Lecture Planning Seminar Navigation I WS 2010/2011

Date	Speaker	Topic
20 October		Organization & introduction
27 October	Elzenbaumer	“ <i>Six-Sigma in Computer-Assisted Navigation</i> ”, MS thesis review.
2 November	Di Franco	Machine Learning for Analyzing Histological Sections (PhD-Thesis review)
9 November	Plattner	Hoff, <i>Analysis of Head Pose Accuracy in Augmented Reality</i> , IEEE TVCG, 6(4), 1 ff (2000).
16 November	Bardosi	Stehle <i>et al.</i> , “ <i>Camera calibration for fish-eye lenses in endoscopy ...</i> ”, Proc IEEE ISBI, 1176-11709 (2007), and Gross <i>et al.</i> , “ <i>RealTimeFram - a real-time porcessing framework for medical video sequences</i> ”, Proc. Stud. Conf. Electr. Eng. Prague (2008).
23 November	Güler	Ellis <i>et al.</i> , “ <i>Minimally invasive excision of deep bone tumors</i> ”, LNCS 2208, 1154 - 1156 (2001), Simpson <i>et al.</i> , “ <i>Using registration uncertainty visualization in a user study of a simple surgical task</i> ” LNCS 4191, 397 - 404 (2008).
30 November	Reka	Shapiro <i>et al.</i> , “ <i>3D motion recovery via affine epipolar geometry</i> ”, Int J. CV 16, 147 - 182 (1005).
7 December	Diakov	Zhang, “ <i>Iterarive point matching for registration of free-form curves</i> ”, INRIA Rapports de recherche, 1658, (1991).
14 December	Di Franco	<i>Rhinospider.</i>
	Özbek	<i>ItK imlementation of mutual information and its metric.</i>
21 December	Plattner	Berry <i>et al.</i> , “ <i>Making image guidance work: understanding the control of accuracy</i> ”, Ann Otol Laryngol Rhinol 112, 689 ff (2003), and Woerdmann <i>et al.</i> , “ <i>Application accuracy in frameless image- guided neurosurgery: ...</i> ”, J. Neurosurg. 106,

- 1012 ff (2007).
- 11 January Bardosi Chassat *et al.*, “*Experimental protocol of accuracy evaluation*”, LNCS 1496, 277 ff (1998), and Atuegwu *et al.*, “*Volumetric characterization of the Aurora magnetic tracker ...*”, Phys Med Biol 53, 4335 ff (2008).
- 18 January Reka Paul *et al.*, “*Augmented virtuality based on stereoscopic reconstruction in multimodal image guided neurosurgery...*”, IEEE TMI24, 1500 ff (2005).
- 25 January Güler Pottmann *et al.*, “*Registration without ICP*”, CVIU 95, 54 ff (2004), and Simpson *et al.*, “*Computation and validation of intra-operative camera uncertainty*”, Proc IEEE EMBS, 479 ff (2007).
- 2 February Özberk Wells *et al.*, “*Multi-modal volume registration by maximization of mutual information*”, MIA 1, 35 ff (1996).