9th MICCAI Workshop on Augmented Environments for Computer-Assisted Interventions (AE-CAI)



An event organized by:	Tentative Program		
AND ON TRANSPORT	8:00	Registration, Speaker Check-in and Poster Setup	
	8:15	Welcome & Opening Remarks	
		Chair: Cristian A. Linte	
	8:20	Keynote Address: Dr. Guang-Zhong Yang, Imperial College London	
		Chair: Cristian A. Linte	
	9:10	Oral Session I (2 papers + Discussion): Endoscopic Imaging & Applications	
Children's National		Chair: Purang Abolmaesumi	
	#1 Visual Odometry in Stereo Endoscopy by using PEaRL to handle Partial Scene Deformation		
	# 2 A Sim	ple and Accurate Camera-sensor Calibration for Surgical Endoscopes and Microscopes	
	10:00	Coffee Break	
	10:30	Oral Session II (3 papers + Discussion): Applications in Augmented Reality	
		Chair: Pascal Fallavollita	
	# 1 Augmented Reality in Neurovascular Surgery: First Experiences		
	# 2 Augm	ented-reality environment for locomotor training in children with neurological injuries	
	# 3 Augm	ented Reality-Ennanced Endoscopic Images for Annuloplasty Ring Sizing	
	11:50	Poster teasers	
	12:00	Lunch	
Biomedical Investme Resource	13:00	Keynote Address: Dr. Craig Peters, Children's National Health System	
		Chair: Ziv Yaniv	
	12.50	Pactor Sersion	
	# 1 Granh	ics Processor Linit (GPLI) Accelerated Shallow Transparent Layer Detection in Ontical Coherence Tomographic	
Awards sponsored by:	(OCT) ima	(OCT) images for real-time Corneal Surgical Guidance	
	#2 Simulation of Ultrasound Images for Validation of MR to Ultrasound Registration in Neurosurgerv		
	#3 Fusior	of Inertial Sensing to Compensate for Partial Occlusions in Optical Tracking Systems	
	#4 Impro	vement of a Virtual Pivot for Minimally Invasive Surgery Simulators using Haptic Augmentation	
	# 5 A New Cost-Effective Approach to Pedicular Screw Placement		
Proceedings published in:	#6 Linear	Object Registration of Interventional Tools	
	#7 A Fran	nework for Semi-Automatic Fiducial Localization in Volumetric Images	
Springer	15:00	Coffee Break	
Lecture Notes in Computer Science	15,20	Oral Section III /2 namore Discussion), Ultrasound Imaging and Guidanse Applications	
	15.50	Chair: David R. Holmes III	
	#1 Instru	ment Tracking and Visualization for Ultrasound Catheter Guided Procedures	
	# 2 Towar	ds video guidance for ultrasound, using a prior high-resolution 3D surface map of the external anatomy	
	# 3 Ultras	# 3 Ultrasound Image Overlay onto Endoscopic Image by Fusing 2D-3D Tracking of Laparoscopic Ultrasound Probe	
	16:50	Awards & Closing Remarks	
		Chair: Ziv Yaniv	