

Table of Contents

2D/3D Registration of a Preoperative Model with Endoscopic Video Using Colour-Consistency	1
<i>Ping-Lin Chang, Dongbin Chen, Daniel Cohen, and Philip "Eddie" Edwards</i>	
A Realistic Test and Development Environment for Mixed Reality in Neurosurgery	13
<i>Simon Drouin, Marta Kersten-Oertel, Sean Jy-Shyang Chen, and D. Louis Collins</i>	
Visual Search Behaviour and Analysis of Augmented Visualisation for Minimally Invasive Surgery	24
<i>Kenko Fujii, Johannes Totz, and Guang-Zhong Yang</i>	
Augmented Reality Image Overlay Projection for Image Guided Open Liver Ablation of Metastatic Liver Cancer	36
<i>Kate Alicia Gavaghan, Sylvain Anderegg, Matthias Peterhans, Thiago Oliveira-Santos, and Stefan Weber</i>	
Tissue Deformation Recovery with Gaussian Mixture Model Based Structure from Motion	47
<i>Stamatia Giannarou and Guang-Zhong Yang</i>	
Towards an Ultrasound Probe with Vision: Structured Light to Determine Surface Orientation	58
<i>Samantha Horvath, John Galeotti, Bo Wang, Matt Perich, Jihang Wang, Mel Siegel, Patrick Vescovi, and George Stetten</i>	
Markov Modeling of Colonoscopy Gestures to Develop Skill Trainers....	65
<i>Jagadeesan Jayender, Inbar Spofford, Balazs I. Lengyel, Christopher C. Thompson, and Kirby G. Vosburgh</i>	
Volume Visualization in the Clinical Practice	74
<i>Bernhard Kainz, Rupert H. Portugaller, Daniel Seider, Michael Moche, Philipp Stiegler, and Dieter Schmalstieg</i>	
CT-US Registration for Guidance of Transcatheter Aortic Valve Implantation	85
<i>Pencilla Lang, Michael W. Chu, Daniel Bainbridge, Elvis C.S. Chen, and Terry M. Peters</i>	

Enhanced Planning of Interventions for Spinal Deformity Correction Using Virtual Modeling and Visualization Techniques	93
<i>Cristian A. Linte, Kurt E. Augustine, Paul M. Huddleston, Anthony A. Stans, David R. Holmes III, and Richard A. Robb</i>	
Alignment of 4D Coronary CTA with Monoplane X-ray Angiography . . .	106
<i>Coert Metz, Michiel Schaap, Stefan Klein, Peter Rijnbeek, Lisan Neefjes, Nico Mollet, Carl Schultz, Patrick Serruys, Wiro Niessen, and Theo van Wulsum</i>	
VR Training System for Endoscopic Surgery Robot: Development of a System Enabling 4D Analysis of Surgical Technique Training	117
<i>Naoki Suzuki, Asaki Hattori, Satoshi Ieiri, Morimasa Tomikawa, Hajime Kenmotsu, and Makoto Hashizume</i>	
Brain Parcellation Aids in Electrode Localization in Epileptic Patients	130
<i>Jue Wu, Kathryn Davis, Allan Azarion, Yuanjie Zheng, Hongzhi Wang, Brian Litt, and James Gee</i>	
Author Index	139