

TABLE OF CONTENTS

Introduction	1
Session 1: Orientation and Calibration	
Chairman: Camillo Ressl	
Automatic Image Sequence Registration Based on a Linear Solution and Scale Invariant Keypoint Matching Z. Shragai, S. Barnea, S. Filin, G. Zalmanson, Y. Doytsher, <i>Technion, Israel</i>	5
Robust Least-Squares Adjustment Based Orientation and Auto-Calibration of Wide-Baseline Image Sequences H. Mayer, <i>Bundeswehr University Munich, Germany</i>	11
Global Uncertainty in Epipolar Geometry via Fully and Partially Data-Driven Sampling C. Engels, D. Nistér, <i>University of Kentucky, USA</i>	17
Session 2: Performance Evaluation	
Chairman: Peter Sturm	
Measuring Complete Ground-Truth Data and Error Estimates for Real Video Sequences, for Performance Evaluation of Tracking, Camera Pose and Motion Estimation Algorithms R. Stolkin, A. Greig, J. Gilby, <i>Stevens Institute of Technology, USA, University College London, UK, Sira Ltd., UK</i>	25
Performance Evaluation of a Localization System Relying on Monocular Vision and Natural Landmarks E. Royer, M. Lhuillier, M. Dhome, J.-M. Lavest, <i>Université Blaise Pascal, France</i>	31
Robust Metric Structure From Motion for an Extended Sequence with Outliers and Missing Data C.-M. Cheng, P.-H. Huang, S.-H. Lai, <i>National Tsing Hua University, R.O.C.</i>	37
Session 3: Surface Reconstruction	
Chairman: Olaf Hellwich	
Direct Shape from Isophotes V. Dragnea, E. Angelopoulou, <i>Stevens Institute of Technology, USA</i>	45
Comparison of Photoconsistency Measures Used in Voxel Coloring O. Özün, U. Yilmaz, V. Atalay, <i>Middle East Technical University, Turkey, Berlin University of Technology, Germany</i>	51
3D Surface Reconstruction Based on Combined Analysis of Reflectance and Polarisation Properties: A Local Approach P. d'Angelo, C. Wöhler, <i>DaimlerChrysler Research and Technology, Germany</i>	57
Comparative Study of Disparity Estimations with Multi-Camera Configurations in Relation to Descriptive Parameters of Complex Biological Objects M. Nielsen, H.J. Andersen, E. Granum, <i>Aalborg University, Denmark</i>	63
Author Index	69