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Together with the companion volume LNCS 2488 this book constitutes the refereed proceedings of the 5th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2002, held in Tokyo, Japan, in September 2002.   The 184 revised full papers presented were carefully reviewed and selected from 321 submissions. The two-volume proceedings offers main topical sections on medical robotics and endoscopic devices; validation; brain tumor, cortex, vascular, and imaging and analysis; segmentation; cardiac applications; computer-assisted diagnosis; tubular structures; interventions; simulation; modelling; statistical shape modelling; image registration; visualization; and novel imaging techniques.

Tubular Structures Automated Nomenclature Labeling of the Bronchial Tree   in 3D-CT Lung Images   Segmentation, Skeletonization, and Branchpoint Matching   A Fully Automated Quantitative Evaluatio   of Human Intrathoracic Airway Trees   Improving Virtual Endoscopy for the Intestinal Tract   Finding a Non-continuous Tube by Fuzzy Inference   for Segmenting the MR Cholangiography Image   Level-Set Based Carotid Artery Segmentation for Stenosis GradingInterventions - Augmented Reality   PC-Based Control Unit for a Head Mounted Operating Microscope   for Augmented Reality Visualization in Surgical Navigation   Technical Developments for MR-Guided Microwave   Thermocoagulation Therapy of Liver Tumors   Robust Automatic C-Arm Calibration for Fluoroscopy-Based Navigation: A Practical Approach   Application of a Population Based Electrophysiological Database to the   Planning and Guidance of Deep Brain Stereotactic Neurosurgery   An Image Overlay System with Enhanced Reality   for Percutaneous Therapy Performed Inside CT Scanner   High-Resolution Stereoscopic Surgical Display   Using Parallel Integral Videography and Multi-projector   Three-Dimensional Display for Multi-sourced Activities   and Their Relations in the Human Brain by Information Flow   between Estimated DipolesInterventions - Navigation   2D Guide Wire Tracking during Endovascular Interventions   Specification Method of Surface Measurement for Surgical Navigation   Ridgeline Based Organ Registration   An Augmented Reality Navigation System with a Single-Camera Tracker   System Design and Needle Biopsy Phantom Trial   A Novel Laser Guidance System for Alignment of Linear Surgical Tools   Its Principles and Performance Evaluation as a Man-Machine System   Navigation of High Intensity Focused Ultrasound Applicator   with an Integrated Three-Dimensional Ultrasound Imaging System   Robust Registration of Multi-modal Images   Towards Real-Time Clinical Applications   3D Ultrasound System Using a Magneto-optic Hybrid Tracker   for Augmented Reality Visualization in Laparoscopic Liver Surgery   Interactive Intra-operative 3D Ultrasound Reconstruction   and Visualization……SimulationModelingStatistical Shape ModelingRegistration - 2D /D FusionRegistration-Similarity MeasuresNon-rigid RegistrationVisualizationNovel Imaging TechniquesAuthor Index

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