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Nota di contenuto	Computer Aided Diagnosis Systems for Acute Renal Transplant Rejection: Challenges and Methodologies -- Kidney Detection and Segmentation in Contrast-Enhanced Ultrasound 3D Images -- Renal Cortex Segmentation on Computed Tomography -- Diffuse Fatty Liver Disease: from Diagnosis to Quantification -- Multimodality Approach to Detection and Characterization of Hepatic Hemangiomas -- Ultrasound Liver Surface and Textural Characterization for the Detection of Liver Cirrhosis -- MR Imaging of Hepatocellular Carcinoma -- Magnetic Resonance Imaging of Adenocarcinoma -- Quantitative Evaluation of Liver Function Within MR Imaging -- Diffusion-Weighted Imaging of the Liver -- Shape-Based Liver Segmentation Without Prior Statistical Models -- CT Imaging Characteristics of Hepatocellular Carcinoma -- Clinical Applications of Hepatobiliary MR Contrast Agents -- Fast Object Detection Using Color Features for Colonoscopy Quality Measurements -- Colon Surface Registration Using Ricci Flow -- Efficient Topological Cleaning for Visual Colon Surface Flattening -- Towards Self-Parameterized Active Contours for Medical Image Segmentation with Emphasis on Abdomen -- Bridging the Gap between Modeling of Tumor Growth and Clinical Imaging -- Evaluation of

Medical Image Registration by Using High-Accuracy Image Matching Techniques -- Preclinical Visualization of Hypoxia, Proliferation and Glucose Metabolism In Non-Small Cell Lung Cancer And Its Metastasis -- Thermoacoustic Imaging With VHF Signal Generation – A New Contrast Mechanism for Cancer Imaging over Large Fields of View -- Automated Prostate Cancer Localization With Multiparametric Magnetic Resonance Imaging -- Ultrasound-Fluoroscopy Registration For Intraoperative Dynamic Dosimetry In Prostate Brachytherapy -- Multi-Atlas-Based Segmentation of Pelvic Structures From CT Scans For Planning In Prostate Cancer Radiotherapy -- Propagating Segmentation of A Single Example to Similar Images: Differential Segmentation of the Prostate In 3-D MRI -- 3D REGistration of Whole-mount Prostate Histology IMAGES to ex vivo magnetic resonance images using strand-shaped fiducials -- Anatomical Landmark Detection -- Index.

Sommario/riassunto

Ayman El-Baz, Ph.D., Associate Professor in the Department of Bioengineering at the University of Louisville, KY. Dr. El-Baz has fourteen years of hands-on experience in the fields of bioimaging modeling and computer-assisted diagnostic systems. His work has been reported at several prestigious international conferences (e.g., CVPR, ICCV, MICCAI, ISBI, etc.) and in journals (e.g., IEEE TMI, IEEE TIP, IEEE TBME, IEEE TITB, Brain, NMR, etc.). Dr. El-Baz has authored or coauthored more than 300 technical articles. Luca Saba, MD, is a researcher in the field of Multi-Detector-Row Computed Tomography, Magnetic Resonance, Ultrasound, Neuroradiology, and Diagnostic in Vascular Sciences. His works, as lead author, achieved more than 100 high impact factor, peer-reviewed Journals. He is well known speaker and has spoken over 45 times at national and international levels. Dr. Saba has won 12 scientific and extracurricular awards during his career. Jasjit S. Suri, MS, PhD, MBA is an innovator, visionary, scientist, and an internationally known world leader in the field of Healthcare Imaging and biomedical devices. Dr. Suri was the recipient of Director General's Gold medal in 1980 and the Fellow of American Institute of Medical and Biological Engineering (AIMBE), awarded by National Academy of Sciences, Washington DC in 2004. Dr. Suri has been the chairman of IEEE Denver section, has won over 50 awards during his career including project, program and regulatory management, and has held several executive positions.
