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Nota di contenuto	Endoscopic Fluorescence Imaging of Bladder Cancer: Photodynamic Diagnosis and Confocal Laser Endomicroscopy -- Narrow Band Imaging for Urothelial Cancer -- Optical Coherence Tomography in Bladder Carcinoma -- Optical Coherence Tomography for Prostate Cancer and Beyond -- Fluorescence Image-Guided Robotic Surgery -- Multiphoton Microscopy in Urologic Surgery -- Hyperspectral Imaging of Renal Oxygenation (Near-Infrared Tissue Oximetry for Renal Ischemia) -- Light Reflectance Spectroscopy and Autofluorescence (Kidney and Prostate) -- Intraoperative Doppler Ultrasound During Robotic Surgery -- TRUS of the Prostate: State of the Art -- Ultrasound-Guided Prostate Cryotherapy -- Endoluminal Ultrasonography -- Multiparametric Magnetic Resonance Imaging for Prostate Cancer -- MR-Guided Prostate Interventions -- CT-Guided Renal Ablation- MR-Guided Renal Ablation -- Augmented Reality for Percutaneous Renal Interventions -- Image Guidance in Robotic Assisted Renal Surgery -- Urologic Surgery

Sommario/riassunto

This book provides an overview of the current state-of-art in combining advances in biomedical imaging with intraoperative navigation and preoperative planning for urologic surgery. These advances hold great promise in improving diagnostic and therapeutic urologic interventions to improve patient outcomes. Leading experts in this exciting emerging field covers early clinical and pre-clinical applications of optical, ultrasound, cross-sectional, and computer-assisted imaging in urologic surgery. Advances in Image-Guided Urologic Surgery provides a unique and valuable resource for audience with clinical and research interest in minimally invasive surgery, endourology, urologic oncology, imaging, and biomedical engineering.