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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 9515
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Soggetti	Optical data processing Pattern recognition Computer graphics Artificial intelligence Radiology Health informatics Image Processing and Computer Vision Pattern Recognition Computer Graphics Artificial Intelligence Imaging / Radiology Health Informatics
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Nota di contenuto	Impact of lossy image compression on CAD support systems for colonoscopy -- Pointing with a One-Eyed Cursor for Supervised Training in Minimally Invasive Robotic Surgery -- Instrument Tracking with Rigid Part Mixtures Model -- A Stereoscopic Motion Magnification in Minimally-Invasive Robotic Prostatectomy -- Tissue Shape Acquisition with a Hybrid Structured Light and Photometric Stereo Endoscopic System -- Using Shading to Register an Intraoperative CT Scan to a Laparoscopic Image -- A Surgical Simulation Robot with

Haptics and Friction Compensation -- A Real-Time Target Tracking Algorithm for a Robotic Flexible Endoscopy Platform -- 2D/3D Real-Time Tracking of Surgical Instruments Based on Endoscopic Image Processing -- Tracking accuracy evaluation of electromagnetic sensor-based colonoscope tracking method -- Non Rigid Registration of 3D Images to Laparoscopic Video for Image Guided Surgery -- A novel dual Level Sets competition model for colon region segmentation -- Enhancing Normal-Abnormal Classification Accuracy in Colonoscopy Videos via Consistency -- 3D Stable Spatio-temporal Polyp Localization in Colonoscopy Videos -- Uninformative Frame Detection in Colonoscopy Through Motion, Edge and Color Features. .

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the Second International Workshop on Computer Assisted and Robotic Endoscopy, CARE 2015, held in conjunction with MICCAI 2015, in Munich, Germany, in October 2015. The 15 revised full papers were carefully selected out of 20 initial submissions and focus on recent technical advances associated with computer vision; graphics; robotics and medical imaging; external tracking systems; medical device control systems; information processing techniques; endoscopy; planning and simulation.