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Nota di contenuto	Overview of biomedical image understanding methods / Wei Xiong, Jierong Cheng, Ying Gu, Shimiao Li and Joo Hwee Lim -- Medical image segmentation and its application in cardiac MRI / Dong Wei, Chao Li and Ying Sun -- Retinal vascular measurements with VAMPIRE / Emanuele Trucco, Andrea Giachetti, Lucia Ballerini, Devanjali Relan, Alessandro Cavinato and Tom MacGillivray -- Analyzing cell and tissue morphologies using pattern recognition algorithms / Hwee Kuan Lee, Yan Nei Law, ChaoHui Huang and Choon Kong Yap -- 3D nonrigid image registration by Parzenwindow based normalized mutual information / Rui Xu, YenWei Chen, Shigehiro Morikawa and Yoshimasa Kurumi -- 2D/3D image registration for endovascular abdominal aortic aneurysm (AAA) repair / Shun Miao and Rui Liao -- Motion tracking in medical images / Chuqing Cao, Chao Li and Ying Sun -- Blood smear analysis and malaria infection detection from blood cell images / Wei Xiong, SimHeng Ong, Joo Hwee Lim, Jierong Cheng and Ying Gu -- Liver tumor segmentation using SVM framework and pathology characterization / Jiayin Zhou, Yanling Chi, Weimin Huang, Wei Xiong, Wenyu Chen, Jimin Liu and Sudhakar K. Venkatesh -- Benchmarking lymph node metastasis classification for gastric cancer staging / Su

Zhang, Chao Li, Shuheng Zhang, Lifang Pang and Huan Zhang -- The use of knowledge in biomedical image analysis / Florence Cloppet -- Active shape model for contour detection of anatomical structure / Huiqi Li and Qing Nie.

Sommario/riassunto

With contributions from experts in China, France, Italy, Japan, Singapore, the United Kingdom, and the United States, Biomedical Image Understanding: Addresses motion tracking and knowledge-based systems, two areas which are not covered extensively elsewhere in a biomedical context
 Describes important clinical applications, such as virtual colonoscopy, ocular disease diagnosis, and liver tumor detection
 Contains twelve self-contained chapters, each with an introduction to basic concepts, principles, and methods, and a case study or application