

1. Record Nr.	UNINA9910151563403321
Titolo	Biomedical image segmentation : advances and trends // edited by Ayman El-Baz, Xiaoyi Jiang, and Jasjit S. Suri
Pubbl/distr/stampa	Boca Raton : , : CRC Press, Taylor & Francis, , [2017] ©2017
ISBN	1-315-35504-3 0-367-87086-X 1-315-37227-4
Descrizione fisica	1 online resource (547 pages)
Disciplina	616.0754
Soggetti	Diagnostic imaging - Social aspects Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Deformable model-based methods for image segmentation / Marwa Ismail, Ahmed El Tanboly, Magdi El-Azab, Ayman El-Baz, and Robert Keynton -- Chapter 2. Domain knowledge for level set segmentation in medical imaging : a review / Klaus D. Toennies, Tim Konig, Oliver Gloger -- Chapter 3. Robust image segmentation with a parametric deformable model using learned shape priors / Ahmed Soliman, Marwa Ismail, Ali Taki Eldeen, Georgy Gimel'farb, Ayman El-Baz, and Robert Keynton -- Chapter 4. A 3D active shape model for left ventricle segmentation in MRI / Carlos Santiago, Jacinto C. Nascimento, Jorge S. Marques -- Chapter 5. Model-based segmentation algorithms for myocardial magnetic resonance imaging sequences / Antoine Vacavant, Kevin Bianchi, Guillaume Cerutti, Lucie Cassagnes, Laurent Sarry, and Laure Tougne -- Chapter 6. Incorporating shape variability in implicit template deformation for image segmentation / Raphael Prevost, Remi Cuingnet, Benoit Mory, Laurent D. Cohen, and Roberto Ardon -- Chapter 7. Exudate detection in fundus images using active contour methods and regionwise classification / Balazs Harangi and Andras Hajdu -- Chapter 8. Preprocessing, local features and fuzzy logic-based image segmentation / Umer Javed, Muhammad Mohsin

Riaz, Abdul Ghafoor, and Tanveer Ahmed Cheema -- Chapter 9. Model-based curvilinear network extraction toward quantitative microscopy / Ting Xu, Chao Zhou, Xiaolei Huang -- Chapter 10. Level set-based cell segmentation using convex energy functionals / Jan-Philip Bergeest and Karl Rohr -- Chapter 11. Histogram-based level set methods for medical image segmentation / Wei Yu and Jifeng Ning -- Chapter 12. An appearance-guided deformable model for 4D kidney segmentation using diffusion MRI / Mohamed Shehata, Fahmi Khalifa, Ahmed Soliman, Ali Taki Eldeen, Mohamed Abou El-Ghar, Tarek Eldiasty, Ayman El-Baz, and Robert Keynton
Chapter 13. Prostate segmentation using deformable model-based methods : a review / Islam Reda, Mohammed Elmogy, Ahmed Aboufotouh, Marwa Ismail, Ayman El-Baz, and Robert Keynton -- Chapter 14. A novel NMF-based CAD system for early diagnosis of prostate cancer by using 4-D diffusion weighted magnetic resonance images (DW-MRI) / Ahmed Soliman, Patrick McClure, Fahmi Khalifa, Ali Taki Eldeen, Mohamed Abou El-Ghar, Tarek El-Diasty, Jasjit S. Suri, Adel Elmaghraby, and Ayman El-Baz -- Chapter 15. Distance regularized level sets for segmentation of left and right ventricles / Yu Liu, Shaoxiang Zhang, Xiaoping Yang, Jia Wu, Chunming Li -- Chapter 16. Salient object segmentation with shape-constrained level set / Bin Wang, Xinbo Gao, Dacheng Tao, Xuelong Li, Souleymane Balla-Arabe -- Chapter 17. Tracking and segmentation of the endocardium of the left ventricle in 2D ultrasound using deep learning architectures and Monte Carlo sampling / Jacinto C. Nascimento, Gustavo Carneiro and Antonio Freitas -- Chapter 18. A shortest path approach to interactive medical image segmentation / Jonathan-Lee Jones, Xianghua Xie, and Ehab Essa -- Chapter 19. Local statistical models for ultrasound image segmentation / Djamal Boukerroui -- Chapter 20. Image segmentation with physical noise models / Daniel Tenbrinck, Xiaoyi Jiang -- Chapter 21. A fast lung segmentation approach / Maryam El-Baz, Mohamed A. El-Ghar, and Ayman El-Baz -- Chapter 22. Fully automatic segmentation of hip CT images via landmark detection-based atlas selection and optimal surface detection / Chengwen Chu and Guoyan Zheng.
