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Nota di contenuto	Preface; Contents; Chapter 1 Geometrical and Structural Analysis of Vessel Systems in 3D Medical Image Datasets Tobias Boskamp, Horst K. Hahn, Milo Hindennach, Stephan Zidowitz, Heinz-Otto Peitgen, Steffen Oeltze and Be; Chapter 2 Automatic Methods to Analyze and Quantify Cardiac Left Ventricle Parameters by Means of SPECT Marco A. Gutierrez, Sergio S. Furuie, Marina S. Rebelo and Jose C. Meneghetti; Chapter 3 Left Ventricular Boundary Segmentation from Echocardiography Ning Lin, Weichuan Yu and James S. Duncan Chapter 4 Application of Ultrasound-Based Computational Fluid Dynamics to Modeling Blood Flow in the Carotid Bifurcation Alexander D. Augst, Ben Ariff, Dean C. Barratt, Simon A. MCG. Thom, Alun D. HugChapter 5 PDEs-Based Segmentation of Real-Time Three-Dimensional Echocardiography: Theory and Applications Alessandro Sarti, Cristiana Corsi and Claudio Lamberti; Chapter 6 Logic Characterization and Classification of ECG signals Adam Gacek and Witold Pedrycz Chapter 7 Techniques in Image Segmentation and 3D Visualization in Brain MRI and their Applications Hyunwook Park, Min Jeong Kwon and

Yeji Han Chapter 8 Techniques in Analyzing the Neocortical Fine-Structure F. Kruggel; Chapter 9 Techniques in Automatic Cortical Gray Matter Segmentation of Three-Dimensional (3D) Brain Images Roman Goldenberg, Ron Kimmel, Ehud Rivlin and Michael Rudzsky; Chapter 10 Computer Techniques for the Automatic Segmentation of 3D MR Brain Images Alan Wee-Chung Liew and Hong Yan Chapter 11 Techniques in the Enhancement of 3D Angiograms and their Applications Karl Krissian and Gunnar Farneback Index

Sommario/riassunto

This scholarly set of well-harmonized volumes provides indispensable and complete coverage of the exciting and evolving subject of medical imaging systems. Leading experts on the international scene tackle the latest cutting-edge techniques and technologies in an in-depth but eminently clear and readable approach. Complementing and intersecting one another, each volume offers a comprehensive treatment of substantive importance to the subject areas. The chapters, in turn, address topics in a self-contained manner with authoritative introductions, useful summaries, and detailed reference lists.
