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Nota di contenuto	Hosts and Committees; Table of Contents; Part I Imaging; Evaluation of the Difficulties of the Learning Process of Mammographic Readings; I. INTRODUCTION; II. METHODOLOGIES; III. RESULTS AND DISCUSSION; IV. CONCLUSIONS; REFERENCES; Modeling Breast Cancer Tissue via Analysis of WAXS Signatures; I. INTRODUCTION; II. METHOD; III. RESULTS; IV. CONCLUSIONS; Analysis of 80 kV WAXS Measurements with a CdTe Breast Biopsy Diffractometer; I. INTRODUCTION; II. METHOD; III. RESULTS; IV. CONCLUSION; Sensitometric analyses of screen-film systems for mammography exams in Brazil; I. INTRODUCTION II. MATERIALS AND METHODS III. RESULTS; IV. CONCLUSIONS; REFERENCES; Actions for Implementation Program of Image Quality of Mammography; I. INTRODUCTION; II. MATERIALS AND METHODS; IV. DISCUSSION; V. CONCLUSION; REFERENCES; The potential of spectral-CT for material decomposition with gold-nanoparticle and iodine contrast; I. INTRODUCTION; II. METHODS AND MATERIALS; III. RESULTS;

IV. CONCLUSIONS; REFERENCES; New Line Contrast Figure of Merit for image quality assessment; I. INTRODUCTION; II. MATERIALS AND METHODS; III. RESULTS; IV. CONCLUSIONS; REFERENCES
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Characterization and Analysis of the Physical Parameters in Dental X-Rays Phantom I. INTRODUCTION; II. METHODOLOGY; III. RESULTS AND DISCUSSION; IV. CONCLUSIONS; REFERENCES; Study on the Main Nonconformities Found in no Mammography Alagoas State; I. INTRODUCTION; II. METHODOLOGY; III. RESULTS AND DISCUSSION; IV. CONCLUSIONS; REFERENCES; Absorbed dose in PMMA and Equivalent Breast Phantom in a Digital Breast Tomosynthesis system: Monte Carlo Assessment; 2D/3D Registration for Motion Compensated Reconstruction in Cone-Beam CT of Knees Under Weight-Bearing Condition
Automatic Motion Estimation and Compensation Framework for Weight-bearing C-arm CT scans using Fiducial Markers I. INTRODUCTION; II. METHODS; III. RESULTS; IV. DISCUSSION; V. CONCLUSION; REFERENCES; Towards Image Quality Analysis of Small and Full Field of View Dental Cone Beam CT Systems; I. INTRODUCTION; II. METHODS; III. RESULTS; IV. CONCLUSIONS; REFERENCES; Feasibility study for 3D cone-beam computed tomography reconstruction with few projection data using MLEM algorithm with total variation minimization; I. INTRODUCTION; II. MATERIALS AND METHODS; III. RESULT; IV. DISCUSSION; REFERENCES
A weighted stochastic gradient descent algorithm for image reconstruction in 3D computed tomography

Sommario/riassunto

This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand, and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health.
