## **<u>12 - References Related to Medical Imaging Systems</u></u>**

Bailar III JC. Risks and benefits in mammography- estimating the inestimable. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 435-6.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Image Characteristics and Image Quality; Equipment Performance Analysis; Radiation Exposure and Dose.

Bakker AR, Stut Jr. WJJ, de Valk JPJ, Reijns GL. PACS costs: modeling and simulation. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 1147-52.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Computer Applications in Radiology; Equipment Performance Analysis.

Balter SL, Janower ML. Radiographic viewing conditions. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine II 1973; 43: 225-8.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Imaging Systems; Medical Image Characteristics and Image Quality.

Barneveld Binkhuysen FH, ter Haar Romeny BM, Andriessen JH, Achterberg AJ, Raymakers JA, van Waes PFGM, Zuiderveld KJ. Setup of a clinical evaluation of a PAC system. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 1169-70.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Imaging Systems; Equipment Performance Analysis. Bates LM. Introductory remarks. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine II 1973; 43: 209-10.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Image Characteristics and Image Quality.

Bates LM. Possible role of the centers for radiological physics in the physics of the diagnostic radiology. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 414-16.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Imaging Systems; Digital Imaging; Quality Assurance Programs.

Barnes GT, Nelson RE, Witten DM. Comprehensive quality assurance program- report of four years' experience at University of Alabama. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 19-25.

No abstract or full text available online.

Contact your academic library system for availability.

**KEYWORDS**: Computer Applications in Radiology; Medical Image Characteristics and Image Quality; Quality Assurance Programs.

Bartoo GT, Kim Y, Haralick RM, Nochlin D, Sumi SM. Mathematical morphology techniques for image processing applications in biomedical imaging. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-A: 466-75.

No abstract or full text available online.

Contact your academic library system for availability.

**KEYWORDS**: Medical Imaging Systems; Computer Applications in Radiology; Medical Image Characteristics and Image Quality. Benson HR, Mun SK, Elliott LP. Cost analysis for the development of digital imaging network. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 1008-22.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Computer Applications in Radiology; Equipment Performance Analysis.

Brinker RA, Skucas J. Practical use of Röentgen magnified image intensified 70mm filming neuroradiology. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine 1972; 35: 157-8.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Computer Applications in Radiology; Medical Image Characteristics and Image Quality; Formation and Development of Medical Imaging Modalities.

Brougham RW. Introductory remarks. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine II 1973; 43: 211-6.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Image Characteristics and Image Quality.

Cleveland JR. Will the real clinical performance requirements for x-ray diagnostic systems please stand up? Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 400-5.

No abstract or full text available online.

Contact your academic library system for availability.

**KEYWORDS**: Medical Imaging Systems; Computer Applications in Radiology; Medical Image Characteristics and Image Quality. Cooper JAD. Medical education in the information age. Proceedings of the symposium on medical informatics. Association of American Medical Colleges 1986.

Full text not available online. Contact your academic library system for availability. **KEYWORDS**: References Related to Medical Imaging.

Cox Jr. JR, Jost RG, Monsees T, Ramamurthy S, Karlsson M. Inexpensive electronic viewbox. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 1218-24.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.

Dalton BL, du Boulay G. Medical image matching. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-A: 456-64.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Imaging Systems; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.

Dean PN. Visualization of pion stopping region. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine 1972; 35: 207-10.

No abstract or full text available online.

Contact your academic library system for availability.

**KEYWORDS**: Computer Applications in Radiology; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.

Dobrin R, Keegan A, Berkovits L, Rudolph S. In-depth technical study of new radiological facilities. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 6-11.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Imaging Systems; Computer Applications in Radiology.

Geist D, Vannier MW. Medical imaging in an object-oriented environment. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 1299-306.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.

Good BC, Cooperstein LA Gur D. Radiologists' perceptions of and preferences for a concise computerized history form during radiologic interpretations. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 970-6.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Imaging Systems; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.

Hanson KM. Method to evaluate image-recovery algorithms based on task performance. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-A: 336-43.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Imaging Systems; Computer Applications in Radiology; Equipment Performance Analysis. Katsuragawa S, Doi K, MacMahon H. Quantitative analysis of lung texture for computer-aided diagnosis of interstitial disease in digital chest radiographs. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-A: 371-4.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Computer Applications in Radiology; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.

Kirkland LR, Syed D, Risso Jr. WL, Morgan TJ, Smith LB. Role of CT scanners in radiotherapy. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 269-74.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Computer Applications in Radiology; Medical Image Characteristics and Image Quality; Radiation Exposure and Dose.

Kok PW. The x-ray imaging system. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine 1972; 35: 231-4.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Computer Applications in Radiology; Digital Imaging; Medical Image Characteristics and Image Quality.

Malone WF. Present program of the National Cancer Institute in screening for breast cancer- some preliminary data on screening and monitoring. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 437-42.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Image Characteristics and Image Quality; Equipment Performance Analysis. Metz CE, Chen CT. On the acceleration of maximum likelihood algorithms. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-A: 344-9.

No abstract or full text available online.

Contact your academic library system for availability.

**KEYWORDS**: Medical Imaging Systems; Computer Applications in Radiology; Medical Image Characteristics and Image Quality.

Peck PV. Practical radiograph system tradeoff study. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine 1972; 35: 235-40.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Imaging Systems; Computer Applications in Radiology; Medical Image Characteristics and Image Quality.

Rossi RP, Hendee WR. Exchange of information between the purchaser and supplier of radiologic imaging equipment. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 385-8.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Imaging Systems; Equipment Performance Analysis.

Sashin D, Porti A, Heinz ER, Sternglass EJ. Video techniques in diagnostic radiology. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine 1972; 35: 147-56.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Computer Applications in Radiology; Medical Image Characteristics and Image Quality; Formation and Development of Medical Imaging Modalities. Scheid CC. Acceptance testing- is it worth the effort? Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 392-6.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: New Imaging Facilities; Medical Imaging Systems; Digital Imaging.

Seit A, Tien D, Nickolls P, Yeung A, Tucker J. Performance comparison of extracted features in automated classification of cervical smears. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-A: 488-94.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Computer Applications in Radiology; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.

Sezan MI, Tekalp AM, Schaetzing R. Automatic, anatomically selective, artifact free enhancement of digital chest radiographs. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-A: 364-70.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Computer Applications in Radiology; Digital Imaging; Medical Image Characteristics and Image Quality.

Siedband MP. Panel. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine 1972; 35: 226-30.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Imaging Systems; Digital Imaging; Equipment Performance Analysis.

Stone T. Equipment performance analysis methods. Proceedings of the Society of Photo-optical Instrumentation Engineers. Application of optical instrumentation in medicine V 1976; 96: 26-30.

No abstract or full text available online. Contact your academic library system for availability. **KEYWORDS**: Medical Imaging Systems; Medical Image Characteristics and Image Quality; Equipment Performance Analysis. ter Haar Romeny BM, Achterberg AJ, Barneveld Binkhuysen FH, Andriessen JH, Zuiderveld KJ, Raymakers JA, van Waes PFGM, Stut Jr. WJJ, Scharnberg B, de Valk JPJ. Procedures to study the impact of PACS on the logistics within a diagnostic imaging department. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 1159-68.

No abstract or full text available online.

Contact your academic library system for availability.

**KEYWORDS**: New Imaging Facilities; Computer Applications in Radiology; Equipment Performance Analysis.

## <u>13 - SPIE Conference Proceedings (Pre-1990)</u> Listed Chronologically

Zarnstorff WC, Hendee WR, Carson PL, editors. Application of optical instrumentation in medicine. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 35; 1972 Nov 29-30; Chicago, IL; 1973.

Proceedings not available online. Contact your academic library system for availability. **SESSIONS:** Electro-optical Instrumentation; Image Analysis, Enhancement and Evaluation; Holographic and Video Images; Special Topics; Panel Discussion.

Hendee WR, Zarnstorff WC, editors. Application of optical instrumentation in medicine – II. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 43; 1973 Nov 29-30; Chicago, IL; 1974.

Proceedings not available online.
Contact your academic library system for availability.
SESSIONS: Nuclear Medicine Imaging; Image Enhancement and Pattern Recognition; Image Intensifier Systems; Transmission, Storage, Retrieval and Reconstruction of Images.

Carson PL, Chaney EL, Hendee WR, editors. Application of optical instrumentation in medicine III. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 47; 1974 Aug 1-2; Kansas City, MO; 1975.

Proceedings not available online.

Contact your academic library system for availability.

SESSIONS: Transmission 3 –Dimensional Image Reconstruction and Computerized Axial Tomography; Advanced Techniques of Imaging with Ultrasound; Acoustic Exposure Determination in Diagnostic Ultrasound; Noise Objective and Psychophysical Measures; X-ray Tube Focal Spot Size and Intensity Distributions; Automatic Brightness Control in Image Intensified Fluoroscopy.

Weaver KE, Wagner RF, Goodenough DJ, editors. Medical x-ray: photo-optical systems evaluation. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 56; 1974 Oct 21-23; Columbia, MD; 1975.

Proceedings not available online. Contact your academic library system for availability. **SESSIONS:** Film Screen Sensitometry; Film Screen Optics; Image Intensifier Systems; X-ray Tube Focal Spots; New Developments in X-ray Imaging System.

Gray JE, Hendee WR, editors. Application of optical instrumentation in medicine, IV. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 70; 1975 Sept 25-27; Atlanta, GA; 1976.

Proceedings not available online.

Contact your academic library system for availability.

SESSIONS: Quality Assurance, Film Handling and Film Processing; Loading, Heat Rating, Other Characteristics of X-ray Tubes; Information Extraction and Utilization from Radiologic Images; Quality Assurance in Diagnostic Radiology and Instrumentation; Exposure initiation/Termination Mechanism and Automatic Exposure Timers in Diagnostic Radiology; Rare-Earth Intensifying Screens; Performance Specifications for Diagnostic Radiologic Equipment; Gray Scale Ultrasound Imaging and Tissue Identification; Physical Evaluation of Computerized Axial Tomography; Performance Evaluation of Mammographic Imaging Systems. Hirschfeld T, Herron RE, editors. Application of optics in medicine and biology. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 89; 1976 Aug 26-27; San Diego, CA; 1977.

Proceedings not available online. Contact your academic library system for availability. SESSIONS: Biostereometrics; Quantitative Biomedical Image Analysis.

Cacak RK, Carson PL, Duduque G, Gray JE, Haus AG, Hendee WR, Rossi RP, editors. Application of optical instrumentation in medicine V. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 96; 1976 Sept 16-19; Washington D.C.; 1976.

Proceedings not available online.

Contact your academic library system for availability.

**SESSIONS:** Quality Assurance in Diagnostic Radiology; Computer Tomography; Radiographic Images and Dose; Diagnostic Ultrasound; Current Topics in Mammography.

Gray J, Haus A, Hendee WR, Properzio W, Rossi R, editors. Application of optical instrumentation in medicine VII. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 173; 1979 Mar 25-27; Toronto, ON, Canada; 1979.

Proceedings not available online. Contact your academic library system for availability. SESSIONS: Imaging System: Physical and Perception Evaluation; Mammography; Computer Tomography: Practical and Theoretical Considerations; X-ray Imaging Research in Toronto.

Gray JE, Haus AG, Properzio WS, Mulvaney JA, editors. Application of optical instrumentation in medicine IX. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 273; 1981 Mar 22-24; San Francisco, CA; 1981.

Proceedings not available online.

Contact your academic library system for availability.

SESSIONS: Nuclear Magnetic Resonance Imaging: Current Status; Conventional Imaging Systems Evaluation; Digital Radiography; Quality Control; Nuclear Medicine; Computerized Tomography; Recording, Storage, and Processing of Images. Fullerton GD, editor. Application of optical instrumentation in medicine XI. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 419; 1983 Apr 17-20; Atlanta, GA; 1983.

Proceedings not available online.

Contact your academic library system for availability.

**SESSIONS:** Advances in Breast Imaging; Conventional Imaging Systems Evaluation; Digital Radiography; Image Performance Evaluation and Quality Assurance; Nuclear Magnetic Resonance Imaging; New Modalities and Computers in Medical Imaging.

Schneider RH, Dwyer III SJ, editors. Application of optical instrumentation in medicine XII: medical imaging production, processing, display, and archiving. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 454; 1984 Feb 26-29; San Diego, CA; 1984.

Proceedings not available online.

Contact your academic library system for availability.

SESSIONS: The Physics and Statistics of Imaging; Non-Ionizing Imaging Modalities; Management of Image Data; Performance Analysis of X-ray Screen-Film Systems; Image Display Systems; Digital Radiographic Imaging Systems; Data Processing for Image Formation, Enhancement and Mensuration; Photoelectronic Imaging Devices; Computerized Tomography and Nuclear Medicine.

Schneider RH, Dwyer III SJ, editors. Medical imaging. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 767 (Part 1); 1987 Feb 1-6; Newport Beach, CA; 1987.

Proceedings not available online.

Contact your academic library system for availability.

**SESSIONS:** Future Potential of Several Candidate Signals for Medical Imaging; Tomographic Reconstruction; Radiography; Fluoro/Angio; Imaging Performance Measures; Image Formatting and Comprehension; Perception; Image Processing.

Schneider RH, Dwyer III SJ, editors. Medical imaging. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 767 (Part 2); 1987 Feb 1-6; Newport Beach, CA; 1987.

Proceedings not available online.

Contact your academic library system for availability.

SESSIONS: Printers, Displays, and Digitizers; PACS at the University of California/Los Angeles; 3-D Display; Workstations and Display-Observer Interface; Networking Issues; PACS at the University of Arizona; PACS. Schneider RH, Dwyer III SJ, editors. Medical imaging II: image formation, detection, processing, and interpretation. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 914 (Part A); 1988 Jan 31- Feb 5; Newport Beach, CA; 1988.

Proceedings not available online. Contact your academic library system for availability. **SESSIONS:** Future Potential of the Several Candidate Signals for Medical Imaging; Image Formation I-VII; Image Processing- Chest, Cardiological, Tomography, and Microscopy; Digital Medical Photography.

Schneider RH, Dwyer III SJ, editors. Medical imaging II: image data management and display. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 914 (Part B); 1988 Jan 31- Feb 5; Newport Beach, CA; 1988.

Proceedings not available online.

Contact your academic library system for availability.

**SESSIONS:** Image Data Compression; Digital Image Display- Performance Evaluation and Workstations; PACS Design and Evaluation; PACS Clinical Experience; Experience with the ACR-NEMA Interface Standard; PACS Archives.

Schneider RH, Dwyer III SJ, Jost RG, editors. Medical imaging III: image formation. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 1090; 1989 Jan 29-31; Newport Beach, CA; 1989.

Proceedings not available online. Contact your academic library system for availability. **SESSIONS:** Future Potential of the Several Candidate Signals for Medical Imaging; Image Formation.

Schneider RH, Dwyer III SJ, Jost RG, editors. Medical Imaging III: image capture and display. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 1091; 1989 Jan 29-31; Newport Beach, CA; 1989.

Proceedings not available online. Contact your academic library system for availability. SESSIONS: Image Capture and Display. Schneider RH, Dwyer III SJ, Jost RG, editors. Medical Imaging III: image processing. Proceedings of the Society of Photo-optical Instrumentation Engineers, Vol. 1092; 1989 Jan 31- Feb 3; Newport Beach, CA; 1989.

Proceedings not available online. Contact your academic library system for availability. SESSIONS: Image Processing.