

HISTORY PROJECT REFERENCES

1 - Picture Archiving and Communication Systems

Arenson RL, Chakraborty DP, Seshadri SB, Kundel HL. The digital imaging workstation. *Radiology* 1990; 176: 303-15.

Abstract and full text available online.

URL: <http://www.ncbi.nlm.nih.gov/pubmed/2367643>

FULL TEXT SOURCE: HighWire Press.

KEYWORDS: *Imaging Workstations; PACS.*

Arenson RL, London JW, Morton DE. Fiber optic network with image storage and display systems. *Proceedings of the seventh conference on computer applications in radiology. American College of Radiology* 1982: 545-61.

No abstract or full text available online.

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KEYWORDS: *Diagnostic Image Storage, Transmission and Display.*

Arenson RL, Morton DE, London JW. Early experience with fiber optic picture archival and communication systems for medical images. *Proceedings of the Society of Photo-optical Instrumentation Engineers. PACS for medical applications, second international conference and workshop* 1983; 418: 116-21.

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KEYWORDS: *Digitization and Display; Software Design; User Acceptance; PACS.*

Arenson RL, Morton DE, London JW. Fiber optic communication system for medical images. *Proceedings of the Society of Photo-optical Instrumentation Engineers. PACS for medical applications, first international conference and workshop* 1982; 318: 74-9.

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KEYWORDS: *Fiber Optics; PACS.*

Ausherman DA, Dwyer III SJ, Lodwick GS. A system for the digitization, storage, and display of images. Tech. No. IAL-TR 5-72. Image analysis laboratory. University of Missouri-Columbia. 1972.

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Unpublished technical report, made available by the University of Missouri.

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KEYWORDS: *Medical Image Digitization; Storage; Display.*

Baxter BS, Zeleznik MP. Communication and storage protocols for PACS. Computer 1983; 16: 31-6.

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URL: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1654466

KEYWORDS: *Interface for Standards, Portability, Compatibility, and Storage.*

Berci G, Steckel R. Modern radiology in the operating room. Archives of Surgery 1973; 107: 577-86.

Describes a basic PACS system using analog transmission of images.

Full text available online.

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FULL TEXT SOURCE: *HighWire Press.*

KEYWORDS: *Medical Image Display; Amplification; Storage.*

Blaine GJ, Ferguson RC, Sudt JW, Whitman RA. ISDN: early experiments on a wide-area extension to LAN-based PACS. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical imaging IV: PACS design and evaluation 1990; 1234: 140-7.

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KEYWORDS: *Hardware and Software Interfaces; Workstation; Routers; ISDN Terminal Adapters.*

Blaine GJ, Hill RL, Cox JR, Jost RG. PACS workbench at Mallinckrodt Institute of Radiology (MIR). PACS for medical applications, second international conference and workshop. Proceedings of PACS for medical applications, second international conference and workshop 1983; 418: 80-6.

From special 2003 Journal of Digital Imaging issue: Early PACS; Installation of PACS at the Mallinckrodt Institute of Radiology at Washington University in St. Louis.

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KEYWORDS: PACS Workbench; Picture Acquisition, Transport, Processing, Archiving and Viewing.

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KEYWORDS: Image Transmission; Network Architecture.

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KEYWORDS: *Networks; Digital Imaging Network (DIN).*

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KEYWORDS: *Image Transmission Time; Protocol Standards; Transmission Media.*

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KEYWORDS: *Design Considerations; PACS; Conventional Networks.*

Creasy JL, Thompson BG, Parrish DM, Johnston RE. Overview of University of North Carolina at Chapel Hill PACS program. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 1349-55.

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KEYWORDS: *New Imaging Facilities; Medical Imaging Systems; Equipment Performance Analysis.*

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Preview available from Google Books.

URL: <http://books.google.com/books?id=4Q5eClIfyjsC>

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D'Silva V, Perros H, Stockbridge C. Simulation model of a PACS. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging II 1988; 914-B: 939.

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KEYWORDS: *Medical Imaging Systems; Digital Imaging; Equipment Performance Analysis.*

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Reprinted with permission from Panel discussion I: equipment manufacturers' view on PACS. Proceedings of the Society of Photo-optical Instrumentation Engineers 1982; 318: 432-41; Panel discussion II: the medical community's view on PACS. Proceedings of the Society of Photo-optical Instrumentation Engineers 1982; 318: 476-83.

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Abstract and full text available online.

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KEYWORDS: *Industry, Medical Community, and Government Interest in PACS Standards.*

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KEYWORDS: *Management of Images, Networking and Database.*

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KEYWORDS: *Radiographic Image Management Functions.*

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URL: <http://doi.acm.org/10.1145/1478873.1479009>

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URL: <http://spiedl.org>

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KEYWORDS: *Storage, Transmission and Display of Medical Images.*

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KEYWORDS: *Image Management; Economics; Cost; PACS.*

Dwyer III SJ, Templeton AW, Martin NL, Lee KR, Levine E, Batnitzky S, Rosenthal SJ, Preston DF, Price HI, Faszold S, Anderson WH, Cook LT. The cost of managing digital diagnostic images. Radiology 1982; 144: 313-8.

Abstract and full text available online.

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FULL TEXT SOURCE: *HighWire Press.*

KEYWORDS: *Digital Images; Storage Media; Economics.*

Dwyer III SJ, Templeton AW, Murphey MD, Harrison LA, Eckard DA, Anderson WH, Honeyman JC, Stewart BK, Hensley KS, McFadden MA. Radiology image management networks. Integrated diagnostic imaging: digital PACS in medicine. Ed. de Valk JPJ. Elsevier Science 1992: 3-21.

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

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KEYWORDS: *Imaging Workstations; User Interface Designs.*

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KEYWORDS: *Workstations; Design.*

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KEYWORDS: *General History; Glossary.*

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Full text available online.

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

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KEYWORDS: *New Imaging Facilities; Medical Imaging Systems; Medical Image Characteristics and Image Quality.*

Horii SC, Horii HN, Mun SK, Benson HR, Zeman RK. Environmental designs for reading from imaging workstations: ergonomic and architectural features. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging III 1989; 1093: 172-8.

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KEYWORDS: *Environmental Designs; Imaging Workstations; PACS.*

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KEYWORDS: *Implementation Plan, Transport Medium; Transition to Network.*

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KEYWORDS: *Computer Applications in Radiology; Digital Imaging; References Related to Medical Imaging.*

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KEYWORDS: *Electronic patient record; Image distribution; Informatics.*

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KEYWORDS: *Medical Image Characteristics and Image Quality; Equipment Performance Analysis; Quality Assurance Programs.*

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KEYWORDS: *Medical Imaging Systems; Medical Image Characteristics and Image Quality; Equipment Performance Analysis.*

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KEYWORDS: *Digital Image Processing System; System Evaluation; Image Enhancement and Pattern Recognition.*

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http://ieeexplore.ieee.org/xpls/abs_all.jsp?isnumber=34684&arnumber=1654465&count=24&index=5

KEYWORDS: *Users Model vs. Technical Model; Unique Problems to PACS; Open Structures.*

Moore SM. Observations on DICOM demonstrations at the RSNA annual meetings. Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical imaging 1996; PACS design and evaluation: engineering and clinical issues 1996; 2711: 89-97.

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KEYWORDS: *Computer Applications in Radiology; Equipment Performance Analysis; Formation and Development of Medical Imaging Modalities.*

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Abstract available online.

URL: <http://www.ncbi.nlm.nih.gov/pubmed/1772927>

KEYWORDS: *Networks; IMAC; Digital Imaging Network (DIN) Project at Georgetown University.*

Mun SK, Horii SC, Benson HR, Lo SH, Haynor D, Sarrinen A, Kim Y, Loop J, Greberman M, Allman R. Experience with image management networks at three universities: is the cup half-empty or half-full? Proceedings of the Society of Photo-optical Instrumentation Engineers. Medical Imaging III 1989; 1093: 194-201.

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URL: <http://www.springerlink.com/content/g3wp1xhydnt0wwtb/>

KEYWORDS: *Digital Imaging Network (DIN) at Georgetown University, George Washington University, and University of Washington; PACS.*

Mun SK, Greberman M, Hendee WR, Shannon R. Proceedings of the first international conference on image management and communication (IMAC) in patient care: implementation and impact. IEEE Computer Society. Washington, DC 1989.

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URL: <http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=7482&isYear=1989>

KEYWORDS: *Improved Systems; Technical Barriers; Quality of Care; Evaluation of Technology.*

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URL: <http://www.ncbi.nlm.nih.gov/pubmed/6828736>

FULL TEXT SOURCE: *HighWire Press.*

KEYWORDS: *Digital Interpretations; Disc Storage of Images; Remote Viewing.*

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KEYWORDS: *PACS Display Console; Radiologist Requirements.*

Rowberg AW, Zick GL. PACS - clinical evaluation and future conceptual design. Integrated diagnostic imaging : digital PACS in medicine. Ed. de Valk JPJ. Elsevier Science 1992: 77-9.

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KEYWORDS: *PACS; Project Trends and Directions.*

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KEYWORDS: *Fiber Optic Network; Laser Scanner; Viewing Consoles.*

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