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 C. Yan, Beijing Normal Univ. (China); S. Song, State Key Lab. of Cognitive Neuroscience and Learning, Beijing Normal Univ. (China); Y. Li, X. Guo, State Key Lab. of Cognitive Neuroscience and Learning, Beijing Normal Univ. (China)

8317 1P **Dysfunctional whole brain networks in mild cognitive impairment patients: an fMRI study** [8317-60]

Z. Liu, L. Bai, R. Dai, C. Zhong, Institute of Automation (China); T. Xue, Xidian Univ. (China); Y. You, Institute of Automation (China); J. Tian, Institute of Automation (China) and Xidian Univ. (China)

- 8317 1Q
 Comparison between subjects with long- and short-allele carriers in the BOLD signal within amygdala during emotional tasks [8317-61]
 S. Hadi, M.-R. Siadat, Oakland Univ. (United States); A. Babajani-Feremi, Washington Univ. School of Medicine (United States)
- 8317 1R Comparison of TTP and Tmax estimation techniques in perfusion-weighted MR datasets for tissue-at-risk definition [8317-62]
 N. D. Forkert, P. Kaesemann, J. Fiehler, G. Thomalla, Univ. Medical Ctr. Hamburg-Eppendorf (Germany)
- 8317 1S Quantitative evaluation of phase processing approaches in susceptibility weighted imaging [8317-63]
 N. Li, W.-T. Wang, Ctr. for Neuroscience and Regenerative Medicine (United States); P. Sati, National Institutes of Health (United States); D. L. Pham, Ctr. for Neuroscience and Regenerative Medicine (United States); J. A. Butman, Ctr. for Neuroscience and Regenerative Medicine (United States) and National Institutes of Health (United States)
- 8317 11 Characterizing structure connectivity correlation with the default mode network in Alzheimer's patients and normal controls [8317-64]
 J. Guo, Beijing Normal Univ. (China); P. Xu, General Hospital of Chinese People's Armed Police (China); C. Song, L. Yao, X. Zhao, Beijing Normal Univ. (China)
- 8317 10 Computational study of anterior communicating artery hemodynamics before aneurysm formation [8317-65]
 M. A. Castro, Univ. Tecnologica Nacional (Argentina); C. M. Putman, Inova Fairfax Hospital (United States); J. R. Cebral, George Mason Univ. (United States)
- Micro CT imaging assessment for spatial distribution of magnetic nanoparticles in an ex vivo thrombolysis model [8317-66]
 F.-S. Wang, T.-C. Chao, S.-J. Tu, Chang Gung Univ. (Taiwan)
- Alternative spatial encoding for imaging magnetic nanoparticles [8317-67]
 J. B. Weaver, Dartmouth Hitchcock Medical Ctr. (United States) and Thayer School of Engineering, Dartmouth College (United States) and Norris Cotton Cancer Ctr., Dartmouth College (United States)
- 8317 1X Quantitative tracking of tumor cells in phase-contrast microscopy exploiting halo artifact pattern [8317-68]
 M.-S. Kang, S.-M. Song, H. Lee, M.-H. Kim, Ewha Womans Univ. (Korea, Republic of)
- 8317 1Y The use of a custom made atlas as a template for corrective surgeries of asymmetric patients [8317-69]
 A. AlHadidi, The Univ. of Jordan (Jordan); L. H. Cevidanes, Univ. of Michigan (United States);

A. AlHadidi, The Univ. of Jordan (Jordan); L. H. Cevidanes, Univ. of Michigan (United States); R. Cook, F. Festy, King's College London (United Kingdom); D. Tyndall, B. Paniagua, The Univ. of North Carolina at Chapel Hill (United States)

8317 12 Assessment of global morphological and topological changes in trabecular structure under the bone resorption process [8317-70]

I. N. Sidorenko, Max-Planck-Institut für extraterrestrische Physik (Germany); J. Bauer, Technische Univ. München (Germany); R. Monetti, Max-Planck-Institut für extraterrestrische Physik (Germany); T. Baum, E. J. Rummeny, Technische Univ. München (Germany); F. Eckstein, Paracelsus Medizinische Privatuniv. (Austria); M. Matsuura, E.-M. Lochmueller, Ludwig-Maximilians-Univ. München (Germany); P. K. Zysset, Institute for Surgical Technology and Biomechanics (Switzerland); C. W. Raeth, Max-Planck-Institut für extraterrestrische Physik (Germany)

8317 20 Characterization of healthy and osteoarthritic chondrocyte cell patterns on phase contrast CT images of the knee cartilage matrix [8317-71]

M. B. Nagarajan, Univ. of Rochester Medical Ctr. (United States); P. Coan, Ludwig-Maximilians-Univ. München (Germany); M. B. Huber, C.-C. Yang, Univ. of Rochester Medical Ctr. (United States); C. Glaser, M. F. Reiser, Ludwig-Maximilians-Univ. München (Germany); A. Wismüller, Univ. of Rochester Medical Ctr. (United States) and Ludwig-Maximilians-Univ. München (Germany)

8317 21 Measurement of kidney stone formation in the rat model using micro-computed tomography [8317-72]

J. U. Umoh, Pre-Clinical Imaging Research Ctr., Robarts Research Institute, The Univ. of Western Ontario (Canada); V. Pitelka, H. A. Goldberg, CIHR Group in Skeletal Development and Remodelling, The Univ. of Western Ontario (Canada); D. W. Holdsworth, Pre-Clinical Imaging Research Ctr., Robarts Research Institute, The Univ. of Western Ontario (Canada)

8317 22 IntegriSense molecular image sequence classification using Gaussian mixture model [8317-73]

T. He, Z. Xue, Methodist Hospital Research Institute (United States); K. Lu, Philips Research North America (United States); M. Valdivia y Alvarado, S. T. Wong, Methodist Hospital Research Institute (United States)

8317 23 Classification of CT examinations for COPD visual severity analysis [8317-74] J. Tan, Washington Univ. in St. Louis (United States); B. Zheng, X. Wang, J. Pu, D. Gur, F. C. Sciurba, J. K. Leader, Univ. of Pittsburgh Medical Ctr. (United States)

- Validation of geometric measurements of the left atrium and pulmonary veins for analysis of reverse structural remodeling following ablation therapy [8317-75]
 M. E. Rettmann, D. R. Holmes III, Mayo Clinic (United States); M. S. Gunawan, Georgetown Univ. (United States); X. Ge, R. A. Karwoski, J. F. Breen, D. L. Packer, R. A. Robb, Mayo Clinic (United States)
- 8317 25 A new approach for real-time analysis of biomolecular interactions using surface plasmon resonance imaging SPRi [8317-76]

H. Mezlini, TELECOM & Management SudParis (France) and Lab. de Spectroscopie Atomique Moléculaire et Applications (Tunisia) and Ecole Nationale d'Ingénieurs de Tunis (Tunisia); C. Fetita, TELECOM & Management SudParis (France) and Lab. MAP5, CNRS (France); M. Canva, J. Moreau, Lab. Charles Fabry, Institut d'Optique Graduate School (France); H. Ghalila, Lab. de Spectroscopie Atomique Moléculaire et Applications (Tunisia); S. Ghalila, Lab. MAP5, CNRS (France) and Ecole Nationale d'Ingénieurs de Tunis (Tunisia) and Comité de Pilotage du CEA Linklab, Technocentre TELNET (Tunisia)

8317 26 A novel shape similarity based elastography system for prostate cancer assessment (Cum Laude Poster Award) [8317-77]

H. Wang, S. R. Mousavi, The Univ. of Western Ontario (Canada); A. Samani, The Univ. of Western Ontario (Canada) and Imaging Research Labs., Robarts Research Institute (Canada)

Author Index

Conference Committee

Symposium Chairs

Joseph M. Reinhardt, The University of Iowa (United States) Nico Karssemeijer, Radboud University Njimegen Medical Center (Netherlands)

Conference Chairs

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Nicholas J. Tustison, University of Nochester Medical Center (United States)

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- Functional Magnetic Resonance Imaging
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 John B. Weaver, Dartmouth Hitchcock Medical Center (United States)
 Xiaoping P. Hu, Emory University (United States)
- Magnetic Resonance Imaging of Brain Structure and Function Xiaoping P. Hu, Emory University (United States)
 Axel Wismüller, University of Rochester Medical Center (United States)
 Juan R. Cebral, George Mason University (United States)
- Cardiovascular Hemodynamics and Biomechanics
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- 6 Brain Function, Pathophysiology, and Neural Connectivity Armando Manduca, Mayo Clinic College of Medicine (United States) Axel Wismüller, University of Rochester Medical Center (United States) John B. Weaver, Dartmouth Hitchcock Medical Center (United States)
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- Keynote and Hyperpolarized-Gas Magnetic Resonance Imaging and Analysis
 Robert C. Molthen, Medical College of Wisconsin (United States)
 John B. Weaver, Dartmouth Hitchcock Medical Center (United States)
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- 10 Lung Imaging and Motion Registration Nicholas J. Tustison, University of Virginia (United States)
- Imaging and Analysis of Breast and Thoracic Tissue
 Armando Manduca, Mayo Clinic College of Medicine (United States)
 John B. Weaver, Dartmouth Hitchcock Medical Center (United States)

Fortieth Anniversary of SPIE Medical Imaging Meeting

Robert M. Nishikawa*

Carl J. Vyborny Translation Laboratory for Breast Imaging Research Department of Radiology, and the Committee on Medical Physics, The University of Chicago, 5841 S. Maryland Ave. MC-2026, Chicago, IL 60637

This meeting marked the 40th year from the first SPIE Medical Imaging meeting. This paper presents a brief summary of the 40-year history of the meeting, with an emphasis on the Physics Conference. That is, when the meeting split into multiple conferences, data are presented mostly for the Physics conference only.

The first conference was held in 1972 in Chicago and it was called: Application of Optical Instrumentation in Medicine.

"We have endeavored, by way of the seminar, to provide a communication link between those with expertise in the various technologies associated with image forming devices and those in the medical field who rely on the fruits of these technologies for many of their diagnostic tools...there is a genuine interest among those in the medical field for a better understanding of the fundamental technology of imaging systems." William C. Zarnstroff, General Chairman

For the next 40 years, with the exception of 1978 the meeting was held annually.

The first 13 conferences were entitled: *Application of Optical Instrumentation in Medicine*, appended with a roman numeral. The 14th meeting (1986) was modified to recognize the growing importance of PACS to the meeting: *Application of Optical Instrumentation in Medicine XIV and Picture Archiving and Communication Systems (PACS IV) for Medical Applications*. The following year, the conference name changed to "Medical Imaging" as it is known today, although the first 6 were denoted by roman numerals. Starting in 1993, the year was appended to the title.

The meeting started as a single track, two-day conference, and now has 8 distinct conferences covering five days plus an additional day of courses.

In 1988, the proceedings were published in two volumes, 914A and 914B. The former covering physics, image processing, and perception and the latter display and PACS. The following year (1989) each of those two split in two so that there were now four conferences:

- 1. Medical Imaging III: Image Formation
- 2. Medical Imaging III: Image Capture and Display
- 3. Medical Imaging III: Image Processing
- 4. Medical Imaging III: PACS System Design and Evaluation

These sessions were partially overlapping and, thus, for the first time, the meeting had parallel session.

This configuration of conferences remained until 1994 when Image Perception and Physiology and Function from Multidimensional Images were added. In 1997, Ultrasonic Transducer Engineering was added. In 2007, Computer-Aided Diagnosis was added.

From 1976 to 1983, the meeting was held in conjunction with or preceding the American Roentgen Ray Society. As a result, the location of the meeting changed annually. Starting in 1985, the meeting was held in Newport Beach, CA, and this was home for the next 10 years, except in 1991, the meeting was held in San Jose in conjunction with the Electronic Imaging meeting. In 1995, the meeting was then moved to San Diego, and then returned once more to Newport Beach, before moving to San Diego till 2009. Since 2009 the meeting has been alternating between San Diego and Lake Buena Vista, FL.

In the Introduction to the proceedings in 1984, Chairman Roger Schneider wrote:

This meeting, the twelfth in the series ... was intended to be a change in direction from recent meetings in the series, a reversion to the attack on fundamental problems in imaging which earlier meetings represented. We also desired to bring onto the floor a recognition that the scientific interest in imaging

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is more broad and active now than it was a decade ago and that substantial progress has been made in formulating at least the structure of an understanding of the conveyance of information to human observers through imaging channels. ... We recognized the current intense interest in development of medical systems based upon the most contemporary image communication and storage technologies, and included that topic. The design goal was to address the physics and statistics of image encoding by modality; and the processing, display, archiving, management, and psychophysical considerations independently of modality, as far as possible.

It took 2 years for this new emphasis to flourish. Beginning in 1986, the attendance and the number of papers increased rapidly (as can be seen in the plots below).

Finally, it is important to note that every year for the past 40 years, the Center for Devices and Radiological Health, FDA (formerly, the Bureau for Radiological Health) has been a cosponsor or supporting organization. Further, many members of the CDRH/BRH have helped organize the meeting, such as Robert Wagner, Robert Jennings, Roger Schneider, David Brown and several others. Their contributions to this meeting mirror the impact that the CDRH/BRH have had on the field.

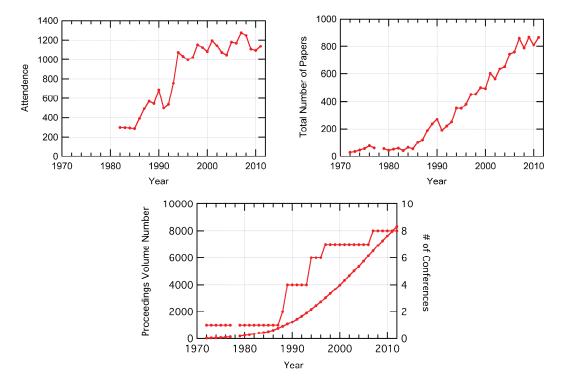


Figure 1. These plots capture some of the statistics from the meeting over time.

1.1 Fun Facts

Bob Wagner dubbed 1984-1987, the Palindrome Years.

The first digital mammography paper and the first dual-energy mammography paper were presented in 1983.

The first computer-aided diagnosis (CAD) paper was presented in 1985.

The first Proceedings (Vol. 35) had a black cover and was hard bound. All subsequent Proceedings had a yellow cover and were soft bound.

The first posters were in 1988. Each poster had 3 full poster boards and wine was served at the poster session.

Although there was no "Medical Imaging" meeting in 1978, there was another medical imaging themed conferences: Recent and Future Developments in Medical Imaging I; edited by Norman A. Baily.

In 2001, the proceedings were distributed on CD for the first time.

Table 1. Number of years serving as a Conference Chair (includes all Conferences) or serving on the Physics Committee (including being Chair). Years on Physics Committee includes committee membership when there was only a single conference and only the Physics Committee when there were multiple conferences.

Years Served as a Conference	Chair
Samuel J. Dwyer III	13
Roger H. Schneider	12
R. Gilbert Jost	11
Yongmin Kim	10
William R. Hendee	8
Anne V. Clough	7
Murray H. Loew	7
Joel E. Gray	6
Kenneth M. Hanson	6
Steven C. Horii	6
Arthur G. Haus	5
Elizabeth A. Krupinski	5
Eric A. Hoffman	5
Harold L. Kundel	5
K. Kirk Shung	5
Seong K. Mun	5
William F. Walker	5

Years Served on Physics Comm	nittee
Robert F. Wagner	19
Hans Roehrig	13
Martin J. Yaffe	12
Robert J. Jennings	12
Harrison H. Barrett	11
Arthur E. Burgess	10
James T. Dobbins III	10
John M. Boone	10
Richard L. Van Metter	10
Rodney Shaw	10
Roger H. Schneider	10
John Yorkston	9
Kunio Doi	9
Larry E. Antonuk	9
Stephen W. Smith	9
Bruce R. Whiting	8
Jacob Beutel	8
Arthur G. Haus	7
Ian A. Cunningham	
John A. Rowlands	7
Judith M. S. Prewitt	7
Kenneth M. Hanson	7 7 7
Michael J. Flynn	7
Murray H. Loew	7
Robert A. Kruger	7
Robert M. Nishikawa	7 7 7 7
Samuel J. Dwyer III	7
Stephen R. Thomas	7
Steven C. Horii	7
Thomas G. Flohr	7

1.2 Summary of Each Meeting

Following is a brief summary of each meeting from 1972-2012. When there were multiple conferences at the meeting, the summary focuses mainly on the Physics Conference. I also have most of this information in an excel spreadsheet. It is available from the author to those who would like it.

Overview of the 40-Year History of the SPIE Medical Imaging Meeting

1972

Application of Optical Instrumentation In Medicine (In-depth-Seminar)

Chicago Nov 29-30 Vol. 35 29 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; BRH; ASNR; SNM; UWMS; AAPM

Chairs

William C. Zarnstorff, William R. Hendee, Paul L. Carson

Program Committee Not listed

Sessions

Electro-Optical Instrumentation - William R. Hendee Image Analysis, Enhancement and Evaluation - Paul L. Carson Holographic and Video Images - William R. Hendee Special Topics - William C. Zarnstorff Panel Discussion - Jack S. Krohmer

1973

Application of Optical Instrumentation in Medicine II

Chicago Nov 29-30 Vol. 43 35 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; ASNR; AAMI; BRH EMBG; OSA; SNM; SRE; SPSE;

Chairs

William R. Hendee, William C. Zarnstorff, Paul L. Carson

Program Committee Not listed

Sessions

Nuclear Medicine Imaging Image Enhancement and Pattern Recognition Panel Discussion: Image Enhancement for Medical Diagnosis Can It Be Effective? Special Topics Image Intensifier Systems Transmission, Storage, Retrieval and Reconstruction of Images Panel Discussion Performance Standards and Possible Field Evaluation of Image Intensifiers Performance Standards of Image Intensifiers

1974

Application of Optical Instrumentation in Medicine III

Kansas City, MO Aug 1-2 Vol. 47 45 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; BRH; AAPM, ARRS; EMBG

Chairs

Paul L. Carson, Edward L. Chaney, William R. Hendee

Program Committee

Not listed

Sessions

Transmission 3-Dimensional Image Reconstruction and Computerized Axial Tomography - William R. Hendee, Joseph Gallagher

Advanced Techniques of Imaging With Ultrasound - Paul L. Carson Acoustic Exposure Determination In Diagnostic Ultrasound - James A. Rooney Noise, Objective, and Psychophysical Measures - Jacel E. Gray Special Topics - Jacoues Ovadia

Ray Tube Focal Spot Size and Intensity Distributions: Important Practical Considerations - Bengt E. Bjarngard

Automatic Brightness Control In Image-Intensified Fluoroscopy - William R. Hendee

1975

Application of Optical Instrumentation in Medicine IV

Atlanta, GA Sept. 25-27 Vol. 70 55 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; BRH; AAPM, ARRS, ACR; SRE

Chairs

Joel E. Gray, William R. Hendee

Program Committee

Not listed

Sessions

Quality Assurance, Film Handling & Film Processing - Joel E. Gray Loading, Heat Rating, Other Characteristics of X-Ray Tubes - Edward L. Chaney

Information Extraction & Utilization From Radiologic Images - Marvin E. Haskin Quality Assurance In Diagnostic Radiology: Why Doesn't Every Department Have A Complete Program? Panel Discussion -

Quality Assurance for Diagnostic Radiologic Instrumentation - James J. Vucich Exposure Initiation/Termination Mechanisms and Automatic Exposure Timers In Diagnostic Radiology - Robert G. Waggener Rare-Earth Intensifying Screens - E. Dale Trout

Panel Discussion: Performance Specifications for Diagnostic Radiologic Equipment -Gray-Scale Ultrasound Imaging & Tissue Identification - Paul L. Carson Physical Evaluation of Computerized Axial Tomography - Raymond P. Rossi Special Topics - Robert Rohrer

Performance Evaluation of Mammographic Imaging Systems - Gregory L. Dubuque

1976

Application of Optical Instrumentation in Medicine V

Washington, DC Sept. 16-19 Vol. 96 76 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; BRH; ARRS; SRE

Chairs

Robert K. Cacak, Paul L. Carson, Gregory Dubuque, Joel E. Gray, Arthur G. Haus, William R. Hendee, Raymond P. Rossi

Program Committee Same as Editors

Sessions

Quality Assurance in Diagnostic Radiology I - Raymond P. Rossi Quality Assurance in Diagnostic Radiology II - Thomas Stone Computed Tomography I - Norman A. Baily Radiographic Images and Dose - Arthur G. Haus Computed Tomography II - Rodney A. Brooks Computed Tomography II - Ronneth Weaver Diagnostic Ultrasound I - Paul L. Carson Quality Assurance in Diagnostic Radiology III - Robert K. Cacak

Current Topics in Mammography - Gregory Dubuque

1977

Application of Optical Instrumentation in Medicine VI

Boston, MA Sept. 25-27 Vol. 127 60 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; BRH; ARRS; SRE

Chairs

Joel E. Gray, William R. Hendee

Program Committee Robert F. Wagner, William Properzio, Arthur G. Haus, Joie Pierce Jones, Raymond Rossi

Sessions

The Laboratory/Clinical Interface in Image Evaluation - Robert Wagner Sensitometry Up-Date - Joel Gray Screen Film Systems and Photosensitive Materials - Arthur G. Haus Approaches to Equipment Service, Equipment Specification and Performance Evaluation - Raymond P. Rossi New Developments in Medical Imaging - William Hendee Quality Control in Medical Imaging - William S. Properzio Performance Characteristics of CT Scanners - Robert K. Cacak Small Group Sessions on Special Topics - Joint Session with ARRS

1978

No Meeting

1979

Application of Optical Instrumentation in Medicine VII

Toronto, Canada Mar 25-27 Vol. 173 55 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; SPSE; ARRS; BRH; SRE

> Chairs Joel E. Gray

Program Committee Arthur G. Haus, William R. Hendee, Raymond P. Rossi, William Properzio

Sessions

Imaging Systems: Physical Evaluation - Joel Gray Imaging Systems: Perception Evaluation - Joel Gray Imaging Systems: Special Topics - Arthur Haus Mammography - William Properzio Special Topics - Raymond Rossi Computed Tomography: Practical Considerations - William R. Hendee Computed Tomography: Theoretical Considerations - William R. Hendee X-Ray Imaging Research in Toronto - K. W. Taylor Joint Session with the ARRS - Joel Gray; William R. Hendee; Harry Z. Mellins

1980

Application of Optical Instrumentation in Medicine VIII

Las Vegas, NV Apr 20-22 Vol. 233 43 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; SPSE; ARRS; BRH; SRE

Chairs Joel Gray, Arthur G. Haus, William R. Hendee, William S. Properzio

> Program Committee Same as Editors

Sessions

Screen-Film Evaluation - Arthur G. Haus Unconventional Imaging Techniques - Joel Gray Special Topics - Gerald Cohen New Concepts in Conventional Imaging Techniques - James A. Mulvaney How Might Exposure Values Be Determined for Radiological Exams? - William S. Properzio

Joint Session with the ARRS - Joel Gray; Joseph Calhoun

1981

Application of Optical Instrumentation in Medicine IX

San Francisco, CA Mar 22-24 Vol. 273 51 papers Attendance: n/a

Sponsors, Co-Sponsors & Supporting Organizations SPIE; SPSE; AAPM; ARRS; BRH; SRE

Chairs

Joel E. Gray, Arthur G. Haus, William S. Properzio, James A. Mulvaney

Program Committee Same as Editors

Sessions

Special Session: Nuclear Magnetic Resonance Imaging: Current Status - Leon Partain; A. Everette James. Jr. Conventional Imaging Systems Evaluation - Arthur G. Haus Digital Radiography - William S. Properzio Quality Control - James A. Mulvaney Nuclear Medicine - Joel E. Gray Break-Out Session A: Nuclear Magnetic Resonance - C. Leon Partain Break-Out Session B: Computerized Tomography - Gary D. Fullerton Break-Out Session C: Digital Imaging - William S. Properzio Break-Out Session C: Digital Imaging - William S. Properzio Break-Out Session D: Conventional Imaging Systems Evaluation - Joel E. Gray Joint Session with the ARRS - Arthur G. Haus; James F. Martin Computerized Tomography - Gary D. Fullerton Recording, Storage, and Processing of Images - Joel E. Gray

1982

Application of Optical Instrumentation in Medicine X

New Orleans May 9-12 Vol. 347 58 papers Attendance: 300

Sponsors, Co-Sponsors & Supporting Organizations SPIE: ARRS: AAPM: BRH: SPSE: SRE

Chairs

Gary D. Fullerton, Arthur G. Haus, William S. Properzio, James A. Mulvaney

Program Committee Same as Editors

Sessions

Special Session on Digital Radiography - Benjamin A. Arnold; Andrew B. Crummy Conventional Imaging Systems Evaluation - Arthur G. Haus Digital Radiography - William S. Properzio

Computed Tomography - James A. Mulvaney Conventional Imaging Systems Evaluation - Charles A. Kelsey Break-Out Session A-Digital Radiography - William S. Properzio

Break-Out Session B-Conventional Imaging - James A. Mulvaney

Break-Out Session C-Nuclear Magnetic Resonance (NMR) Imaging - Gary D. Fullerton Joint Session with The ARRS - John Tampas; Gary D. Fullerton

Digital Radiology (Cosponsored by The ARRS and SPIE) - M. Paul Capp; William R. Hendee Integrated Systems for Analysis and Display of Radiological Images - Michael J. Flynn

Nuclear Magnetic Resonance (NMR) - Raymont L. Nunnally Nuclear Magnetic Resonance (NMR) - Raymont L. Nunnally Nuclear Magnetic Resonance (NMR) (Cosponsored by ARRS and SPIE) - A. Everette James; Raymont L. Nunnally 1983

Application of Optical Instrumentation in Medicine XI

Atlanta Apr 17-20 Vol. 419 41 papers Attendance: 298

Sponsors, Co-Sponsors & Supporting Organizations SPIE; ARRS; AAPM; BRH SPSE; SRE

> Chairs Gary D. Fullerton

Program Committee Arthur G. Haus, James A. Mulvaney, William Properzio

Sessions

Advances in Breast Imaging - Roger S. Powell Conventional Imaging Systems Evaluation - Arthur G. Haus Digital Radiography I - James A. Mulvaney Image Performance Evaluation and Quality Assurance - William S. Properzio Digital Radiography I - Stewart C. Bushong Breakout Session A-Nuclear Magnetic Resonance Imaging - Gary D. Fullerton Breakout Session B-Digital Radiography - William S. Properzio Breakout Session C-Conventional Imaging - James A. Mulvaney Joint Session with SPIE and The ARRS - Melvin M. Figley: Gary D. Fullerton Nuclear Magnetic Resonance Imaging - Gary D. Fullerton New Modalities and Computers in Medical Imaging - Michael J. Fiynn

Application of Optical Instrumentation in Medicine XII

San Diego, CA Feb 26-29

Vol. 454 64 papers Attendance: 295 Sponsors, Co-Sponsors & Supporting Organizations

SPIE: EFOMP: JPL: CDRH: SRE

Chairs

Samuel J. Dwyer III, Roger H. Schneider

Program Committee

David G Brown; Arthur Burgess; Kunio Doi; Andre J Duerinckx; Melvin Figley; Kennett M. Hanson; Steven C. Horit; Robert J. Jennings; Leon Kaufman; ames L Lehr; Murray Loew; G Poretti; Judith M S Prewitt; Stephen W Smith; Vincent J Sodd; Michel M Ter-Pogossian; Robert F Wagner Ia

Sessions

The Physics and Statistics of Imaging I - Kenneth M. Hanson The Physics and Statistics of Imaging I - Arthur Burgess Non-ionizing imaging modalities - Robert J. Jennings Management of Image Data - Judith M. S. Prewitt Performance Analysis of X-Ray Screen-Film Systems - Robert F. Wagner Data Processing for Image Formation, Enhancement, & Mensuration I - James L. Lehr Image Display Systems I - Steven C. Horii Data Processing for Image Formation, Enhancement, & Mensuration II - Kunio Doi

Data Processing for Image Formation, Enhancement, & Mensuration II - Murray Loew Image Display Systems II - Samuel J, Dwyer III

Photoeletronic imaging devices - Hans Roehrig

Data Processing for Image Formation, Enhancement, and Mensuration III - Melvin M. Figley Computerized Tomography and Nuclear Medicine - Roger H. Schneider

1986

Application of Optical Instrumentation in Medicine XIV and Picture Archiving and Communication Systems

Newport Beach, CA Feb 2-7 Vol. 626 101 papers Attendance: 391

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; CDRH

Chairs

Samuel J. Dwyer III, Roger H. Schneider

Program Committee

Laurens V Ackerman; Ronald I Arenson; Harrison H Barrett; Roger A Bauman; Lauten's V Ackernian, Konald J Adenson, Harrison F Barreit, Rogel A Badunan, David G. Brown; Stuart I. Brown; Arthur T E Burgess; Arthur Carson; Kunio Doi; James F. Dunn; Kenneth M. Hanson; Shankar S. Hegde; David G. Hill; Steven C. Hori; H. K. Huang; Robert J. Jennings; Bruce Laskin; Robert A. Kruger; James L Lehr; Thomas K. Lewellen; Murray H. Loew; Albert Macovski; William C. Mortimore; Judith M. S. Prewitt; Roland W.Redington; Stephen Riederer; Rodney Shaw; Stephen W. Smith; Edward Staab; Stephen R. Thomas; Henry N.Wagner Jr.; Robert F. Wagner; Jason S. Zielonka

Sessions

New Signals in Medical Imaging I & II - Roger H. Schneider & Stephen J. Riederer mage Formation I - IV - Kunio Doi; Robert J. Jennings; H. K. Huang; Stephen R. Thomas Image Perceptions - Robert F. Wagner

Image Processing I - III - Murray H. Loew; Robert A. Kruger; Arthur E. Burgess Digital Image Capture and Formatting I & II - David R. Pickens & Thomas K. Lewellen

Digital Image Display I- III - James L. Lehr; Steven C. Horii; Stephen M. Pizer PACS System Design and Evaluation I - V - Ronald L. Arenson; Edgar Alzner; R. Gilbert Jost; Roger A. Bauman; B. G. Thompson

Archives for PACS - Judith M. S. Prewitt

Operations Analysis and Modeling of Radiology Departments I & II - Shakar S. Hegde & Samuel J. Dwyer III

1985

Application of Optical Instrumentation in Medicine XIII

Newport Beach, CA Feb 3-6 Vol. 535 54 papers Attendance: 289

Sponsors, Co-Sponsors & Supporting Organizations SPIE: CDRH: SRE: IEEE-CS

Chairs

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Program Committee

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Sessions

Image Statistics & Perception: I - Kunio Doi Image Statistics & Perception: II - Robert F. Wagne Image Statistics & Perception: III - Arthur Burgess Computing Images From Data - Kenneth M. Hanson Detector Physics I: Scatter - H. K. Huang Detector Physics II: Film Screen Systems - Rodney Shaw; Robert J. Jennings Detector Physics III: Digital - Albert Macovski Detector Physics IV: Semiconductors & Photoconductors - Roger Schneider Detector Physics V: Ultrasound & NMR - Stephen W. Smith Photography. Stuart I. Brown - University Hospital Image Processing I: General - James L. Lehr Image Processing II A: Task Oriented Cranial - Murray Loew Image Processing II B: Task Oriented-Chest - Gordon Johnson Image Processing II C: Task Oriented-Gastro Intestinal - Steven C. Horii

1987

Medical Imaging

Newport Beach, CA Feb 1-6 Vol. 767 (two volumes) 119 papers Attendance: 494

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; CDRH

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Sessions

Future Potential of Several Candidate Signals for Medical Imaging I & II - Roger H. Schneider / Stephen R. Thomas

Tomographic Reconstruction - Harrison H. Barrett Radiography I & II - Robert J. Jennings / Hans Roehrig

Fluoro/Angio - Ronald R. Price Imaging Performance Measures - Kunio Doi

Image Formatting and Compression - H. K. Huang Perception - Arthur E. Burgess

Image Processing I- VI - Stephen J. Riederer / Rodney Shaw / David G. Hill / Robert A. Kruger / Yongmin Kim / Edward Staab

Printers, Displays, and Digitizers - Roger A. Bauman PACS at the UCLA / PACS at Univ of Arizona - H. K. Huang / William J. Dallas

3-D Display - James L. Lehr

Workstations and the Display - Observer Interface I & II- Stephen Pizer / Steven C. Horii Networking Issues - Chris Stockbridge

PACS I - III - Laura Lee Murphy / Samuel J. Dwyer III / Steven C. Horii

Medical Imaging II: Part A--Image Formation, Detection, Processing, and Interpretation

Newport Beach, CA Jan 31-Feb 5

Vol. 914A 188 papers (102 in Physics) Attendance: 570

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; ACR; CDRH

Chairs

Samuel J. Dwyer III, Roger H. Schneider

Program Committee

Ronald L. Arenson; Gary T. Barnes; Harrison H. Barrett; Roger A. Bauman; Arthur Burgess; Arthur N. Carson; Jerry Cohen; Kunio Doi; Aaron Fenster; Leonard A. Ferrari; Kenneth M. Hanson; William R. Hendee; David G. Hill; Steven C. Horii; H. K. Huang; Robert J. Jennings; Robert A Kruger; Bruce Laskin; Jarnes . Lehr; Thomas K. Lewellyn; Murray H. Loew; William C. Mortimore; Laura Lee Murphy; Orhan Nalcioglu; Stephen M. Pizer, Judith M.S. Prewitt; Ronald R Price; Stephen J. Riederer; Hans Roehrig; Roger H Shannon; Rodney Shaw; Stephen W. Smith; Edward V. Staab; Stephen R. Thomas; Robert F. Wagner; Henry N. Wagner, Jr; Jason S. Zielonka

Sessions

Future Potential of the Several Candidate Signals for Medical Imaging - Roger H. Schneider

Image Formation I - VII - Robert F. Wagner / Harrison H. Barrett / Kunio Doi / Robert A. Kruger / Aaron Fenster / Hans Roehrig / Gary T. Barnes Image Processing I - Arthur Burgess Image Processing II: Chest and Cardiological - Jerry Cohen

Image Processing III: Cardiological - Kenneth M. Hanson

Image Processing IV: Tomography and 3D Mapping and Interpretation - Orhan Nalcioglu Image Processing: Microscopy - Judith M. S. Prewitt

Digital Medical Photography - Roger A. Bauman

Other Conferences

Vol # Title Editor/Conference Chair pagers 914B Part B--Image Data Management & Display Samuel J. Dwyer III, Roger H. Schneider 86

1990

Medical Imaging IV: Image Formation

Newport Beach, CA Feb 4-6

Vol. 1231 270 papers (60 in Physics) Attendance: 686

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; ACR;CDRH; NEMA

Chairs

Roger H. Schneider

Program Committee

Ronald L. Arenson; Harrison H. Barrett; Roger A. Bauman; David G. Brown; Arthur E. Burgess; Gerald Cohen; William Dallas; Kunio Doi; Samuel J. Dwyer III Aaron Fenster; Kenneth M. Hanson; David G. Hill; Robert Hindel; Steven C. Horii; H. K. Huang; Robert J. Jennings; R. Gilbert J. Jost; Yongmin Kim; Robert A. Kruger; Pei-Jan Paul Lin; Murray H. Loew; Richard L. Morin; Seong Ki Mun; Orhan Nalcioglu; Thomas R. Nelson; David R. Pickens; Stephen M. Pizer; Judith M. S. Prewitt; Hans Roehrig; Roger Schneider; Roger Shannon; Rodney Shaw; Stephen W. Smith; Edward V. Staab; Stephen R. Thomas; Robert F. Wagner

Sessions

Future Potential of Bioeletromagnetic and Ultrasound Imaging - Roger H. Schneider Future Potential of Ultrasound, CT, and Optical Imaging - Stephen W. Smith Future Potential of Optical Imaging - William J. Dallas MRI - Stephen R. Thomas Calculated Images - Rodney Shaw CT - Orhan Nalcioglu Film Screen Systems - Kunio Doi Digital Quantum Imagers I - Hans Roehrig Digital Quantum Imagers II - Aaron Fenster Clinical Systems and Issues - Robert J. Jennings Other Conferences Editor/Conference Chair Vol # Title papers 43 54 1232 Image Capture and Display Yonamin Kim

	Image Processing	Murray H. Loew	54
1234	PACS Systems Design and Evaluation	Samuel J. Dwyer III, R. Gilbert Jost	113

1989

Medical Imaging III: Image Formation

Newport Beach, CA Jan 29-31 Vol. 1090 235 papers (51 in Physics) Attendance: 547

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; ACR; CDRH; IRS

Chairs

Samuel J. Dwyer III, R. Gilbert Jost M.D., Roger H. Schneider

Program Committee

Ronald L. Arenson; Harrison H. Barrett; Gary T. Barnes; Roger A. Bauman; David G. Brown; Arthur E. Burgess; Arthur Carson; Gerald Cohen; Kunio Doi; Aaron Fenster; Kenneth M. Hanson; William R. Hendee; David G. Hill; Steven C. Horit; H.K. Huang; Robert J. Jennings; Robert A. Kruger; James L. Lehr; Thomas K. Lewellen; Murray R. Loew; Orhan Nalcloglu; Stephen M. Pizer; Judith M. S. Prewitt; Ronald Price; Stephen J. Riederer; Hans Roehrig; Roger H. Shannon; Rodney Shaw; Stephen W. Smith; Edward Staab; Stephen R. Thomas; Robert F. Wagner

Sessions

Future Potential of the Several Candidate Signals for Medical Imaging - Roger H. Schneider

Image Formation I - Stephen J. Riederer Image Formation II - Robert J. Jennings Image Formation III - Arthur E. Burgess Image Formation IV - Robert A. Kruger

Image Formation V - Kunio Doi Image Formation VI - Ronald R. Price

Other Conferences

		# Of
Title	Editor/Conference Chair	papers
Image Capture and Display	Samuel J. Dwyer III, R. Gilbert Jost, Roger H. Schneider	44
Image Processing	Samuel J. Dwyer III, R. Gilbert Jost, Roger H. Schneider	71
PACS System Design and Evaluation	Samuel J. Dwyer III, R. Gilbert Jost, Roger H. Schneider	69
	Image Capture and Display Image Processing	Image Capture and Display Image Processing Processing

1991

Medical Imaging V: Image Physics

San Jose, CA Feb 25-26

Vol. 1443 190 papers (26 in Physics) Attendance: 500

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; ACR;CDRH; IS&TNEMA

Chairs

Roger H. Schneider

Program Committee

Harrison H. Barrett; David G. Brown; Arthur E. Burgess; William J. Dallas; Kunio Dol; Aaron Fenster; Robert J. Jennings; Robert A. Kruger; Pei-Jan P. Lin; Richard L. Morin; Orhan Nalcioglu; Hans Roehrig; Rodney Shaw; Stephen W. Smith; Stephen R. Thomas; Robert F. Wagner

Sessions

Magnetic Imaging - Roger H. Schneider Acoustic Imaging - David G. Brown Radiographic and Fluoroscopic Detectors and Systems - Hans Roehrig Decision Makers and Displays - Arthur E. Burgess Computing Images: CR, CT, and PET - Kenneth M. Hanson Cone Beam CT - Asron Fenster Optical Imaging - Aaron Fenster

Other Conferences

	Uther Col	nterences	
Vol #	Title	Editor/Conference Chair	# of papers
1444	Image Capture, Formatting, and Display	Yongmin Kim	48
1445	Image Processing	Murray H. Loew	59
1446	PACS Design and Evaluation	R. Gilbert Jost	57

1992

Medical Imaging VI: Instrumentation

Newport Beach, CA 23-24 February

Vol. 1651 221 papers (27 in Physics) Attendance: 539 Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; CDRH; NEMA; IS&T

Chairs Rodney Shaw

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Sessions

Image Instrumentation I - David G. Brown Image Instrumentation II - Arthur E. Burgess Image Instrumentation III - William J. Dallas Image Instrumentation IV - Hans Roehrig Poster Session

Other Conferences

Vol #	Title	Editor/Conference Chair	# of
1050	Image Processing	Murray H. Loew	papers 74
			202
1653	Image Capture, Formatting, and Display	Yongmin Kim	51
1654	PACS Design and Evaluation	R. Gilbert Jost	69

1994

Medical Imaging 1994: Physics of Medical Imaging

Newport Beach, CA 13-14 February Vol. 2163 349 papers (45 in Physics) Attendance: 1073

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; BOS; CDRH; NEMA; IS&T; RISC; RSNA; SCAR

Chairs

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Program Committee

Jacob Beutel; John M. Boone; Randall P. Brown; Robert J. Jennings; Hans Roehrig; Richard L. Van Metter; Robert F. Wagner; Martin J. Yaffe

Sessions

Physics of Medical Imaging I - Hans Roehrig Physics of Medical Imaging II - Martin J. Yaffe Physics of Medical Imaging III - Randall P. Brown Physics of Medical Imaging IV - Robert J. Jennings Physics of Medical Imaging V - John M. Boone Physics of Medical Imaging VI - Jacob Beutel

Physics of Medical Imaging VII - Richard L. Van Metter

Other Conferences

	Other Co	onferences	
Vol #	Title	Editor/Conference Chair	# of papers
2164	Image Capture, Formatting, and Display	Yongmin Kim	55
2165	PACS: Design and Evaluation	R. Gilbert Jost	97
2166	Image Perception	Harold L. Kundel	24
2167	Image Processing	Murray H. Loew	88
2168	Physiology and Function from	Eric A. Hoffman, Raj S. Acharya	40

1993

Medical Imaging 1993: Physics of Medical Imaging

Newport Beach, CA 14-15 February Vol. 1896 250 papers (45 in Physics) Attendance: 754

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; BOS; CDRH; NEMA; IS&T; SCAR

Chairs

Rodney Shaw

Program Committee Jacob Beutel; Arthur E. Burgess; Robert J. Jennings; Hans Roehrig; Richard L. Van Metter; Robert F. Wagner

Sessions

Physics of Medical Imaging I - Robert F. Wagner Physics of Medical Imaging II - Rodney Shaw Physics of Medical Imaging III - Hans Roehrig Physics of Medical Imaging IV - Robert F. Wagner Physics of Medical Imaging V - Robert J. Jennings Physics of Medical Imaging VI - Jacob Beutel Physics of Medical Imaging VII - Richard L. Van Metter

Other Conferences

Vol #	Title	Editor/Conference Chair	# of
1897	Image Capture, Formatting, and Display	Yongmin Kim	papers 51
1898	Image Processing	Murray H. Loew	86
1899	PACS Design and Evaluation	R. Gilbert Jost	68

1995

Medical Imaging 1995: Physics of Medical Imaging

San Diego, CA 26-27 February Vol. 2432 348 papers (60 in Physics) Attendance: 1034

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS CDRH; IS&T; NEMA; RISC; RSNA; SCAR

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Sessions

Image Quality and X-Ray Physics I - John M. Boone Image Quality and X-Ray Physics II - Robert J. Jennings Image Quality and X-Ray Physics III - Hans Roehrig Physics of Ultrasound Imaging - Randall P. Brown Novel Detectors for Digital Radiography I - Martin J. Yaffe Novel Detectors for Digital Radiography II - Frank A. DiBianca Novel Detectors for Digital Radiography III - Ian A. Cunningham Digital Radiography System Performance - Larry E. Antonuk

Other Conferences

Vol #	Title	Editor/Conference Chair	# of papers
2431	Image Display	Yongmin Kim	61
2433	Physiology and Function from Multidimensional Images	Eric A. Hoffman	47
2434	Image Processing	Murray H. Loew	94
2435	PACS Design and Evaluation: Engineering and Clinical Issues	R. Gilbert Jost, Samuel J. Dwyer III	67
2436	Image Perception	Harold L. Kundel	19

Medical Imaging 1996: Physics of Medical Imaging

Newport Beach, CA 11-13 February Vol. 2708 382 papers (79 in Physics) Attendance: 996

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CDRH; IS&T; NEMA; RISC; RSNA; SCAR

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Sessions

Plenary Session - Robert Wagner New Concepts in Information Theory - Hans Roehrig Image Quality and X-Ray Physics I - John M. Boone Image Quality and X-Ray Physics II - John M. Boone Image Quality and X-Ray Physics III - Robert J. Endorf Mammographic Imaging - Martin J. Yaffe Ultrasound - Herbert D. Zeman Volume Imaging I - Frank A. DiBianca Volume Imaging II - Frank A. DiBianca Detectors for Digital Radiography I - Larry E. Antonuk

Detectors for Digital Radiography II - James T. Dobbins III

Other Conferences

Title	Editor/Conference Chair	papers
Image Display	Yongmin Kim	65
Physiology and Function from Multidimensional Images	Eric A. Hoffman	49
Image Processing	Murray Loew, Kenneth Hanson	102
PACS Design and Evaluation:	R. Gilbert Jost, Samuel J.	66
Engineering and Clinical Issues	Dwyer III	
Image Perception	Harold L. Kundel	21
	 Image Display Physiology and Function from Multidimensional Images Image Processing PACS Design and Evaluation: 	Image Display Yongmin Kim Physiology and Function from Multidimensional Images Eric A. Hoffman Image Processing PACS Design and Evaluation: Murray Loew, Kenneth Hanson Engineering and Clinical Issues Dwyer III

1998

Medical Imaging 1998: Physics of Medical Imaging

San Diego, CA Feb 22-24 Vol. 3336 454 papers (86 in Physics) Attendance: 1153

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CDRH; IS&T; NEMA RISC; RSNA; SCAR

Chairs

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Larry E. Antonuk; Gary T. Barnes; Jacob Beutel; Ian A. Cunningham; Frank A. DiBianca; Robert J. Endorf; Gary S. Keyes; Hans Roehrig; Robert F. Wagner; Martin J. Yaffe; Richard L. Van Metter; Herbert D. Zeman

Sessions

X-Ray Detectors I - Richard L. Van Metter X-Ray Physics - Gary S. Keyes Non-Ionizing Imaging - Robert J. Endorf X-Ray Detectors II - Martin J. Yaffe Mammographic Imaging - John M. Boone Imaging Theory - Robert F. Wagner Volume Imaging - Ian A. Cunningham Imaging Physics - Hans Roehrig Real-Time X-Ray Detectors - Frank A. DiBianca X-Ray Detectors III - James T. Dobbins III

Other Conferences

Vol #	Title	Editor/Conference Chair	# of papers
3335	Image Display	Yongmin Kim, Seong K. Mun	70
3337	Physiology and Function from Multidimensional Images	Eric A. Hoffman	39
3338	Image Processing	Kenneth M. Hanson	155
3339	PACS Design and Evaluation: Engineering and Clinical Issues	Steven C. Horii, G. James Blaine	65
3340	Image Perception	Harold L. Kundel	14
3341	Ultrasonic Transducer Engineering	K. Kirk Shung	25

Medical Imaging 1997: Physics of Medical Imaging

San Jose, CA Feb 23-25

Vol. 3032 451 papers (57 in Physics) Attendance: 1021

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CDRH; IS&T; NEMA; RISC; RSNA; SCAR

Chairs

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Sessions

Image Acquisition I - John M. Boone Image Acquisition II - Frank A. DiBianca Imaging Physics I - Robert F. Wagner Imaging Physics II - Hans Roehrig Volume Imaging I - Herbert D. Zeman Volume Imaging II - Robert J. Endorf Mammographic Imaging - Martin J. Yaffe Film/Screen and CR Imaging - Ian A. Cunningham

Other Conferences

Vol #	Title	Editor/Conference Chair	# of
			papers
3031	Image Display	Yongmin Kim	87
3033	Physiology and Function from	Eric A. Hoffman	46
	Multidimensional Images		
3034	Image Processing	Kenneth M. Hanson	123
3035	PACS Design and Evaluation:	Steven C. Horii, G. James	78
	Engineering and Clinical Issues	Blaine	
3036	Image Perception	Harold L. Kundel	35
	Ultrasonic Transducer	K. Kirk Shung	25
	Engineering	•	

1999

Medical Imaging 1999: Physics of Medical Imaging

San Diego, CA Feb 21-23

Vol. 3659 (in 2 vol) 499 papers (99 in Physics) Attendance: 1123

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; APS; CDRH; IS&T; NEMA; RSNA; SCAR

Chairs

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Sessions

Direct X-Ray Detectors - Richard L. Van Metter

- Imaging Theory Robert F. Wagner
- Mammography I Martin J. Yaffe Computer Tomography - Gary S. Keyes

Ultrasound - Ian A. Cunningham

- Imaging Physics Frank A. DiBianca
- Indirect X-Ray Detectors I Larry E. Antonuk
 - New Frontiers Hans Roehrig
 - Mammography II Jacob Beutel

Thoracic Imaging - John M. Boone Indirect X-Ray Detectors II - James T. Dobbins III

Other Conferences

papers

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	Editor/Conference	Chair

Title

Vol #

3658	Image Display	Seong K. Mun, Yongmin Kim	60
3660	Physiology and Function from Multidimensional Images	Chin-Tu Chen, Anne V. Clough	51
3661	Image Processing	Kenneth M. Hanson	170
3662	PACS Design and Evaluation: Engineering and Clinical Issues	G. James Blaine, Steven C. Horii	52
3663	Image Perception and Performance	Elizabeth A. Krupinski	39
3664	Ultrasonic Transducer Engineering	K. Kirk Shung	28

Medical Imaging 2000: Physics of Medical Imaging

San Diego, CA Feb 13-15

Vol. 3977 493 papers (71 in Physics) Attendance: 1082

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; APS; CDRH; EMBS; IS&T; NEMA; RSNA; SCAR

Chairs

James T. Dobbins III, John M. Boone

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Larry E. Antonuk; Jacob Beutel; Ian A. Cunningham; Frank A. DiBianca; Gary S. Keyes; Andrew D. A. Maidment; Robert A. Street; Robert F. Wagner; Martin J. Yaffe

Sessions

- X-ray Detectors I John M. Boone Imaging Physics - Gary S. Keyes Fluoroscopic Imaging - Robert A. Street Mammography I - Martin J. Yaffe Microscopy - James T. Dobbins III
- Mammography II Andrew D. A. Maidment Computed Tomography and MRI - Frank A. DiBianca New Frontiers - Jacob Beutel Volume Imaging - Ian A. Cunningham

X-ray Detectors II - Larry E. Antonuk Optimization of Image Quality - Robert F. Wagner

Other Conferences

Vol #	Title	Editor/Conference Chair	papers
3976	Image Display and Visualization	Seong K. Mun	62
3978	Physiology and Function from Multidimensional Images	Chin-Tu Chen, Anne V. Clough	57
3979	Image Processing	Kenneth M. Hanson	166
3980	PACS Design and Evaluation: Engineering and Clinical Issues	G. James Blaine, Eliot L. Siegel	55
3981	Image Perception and Performance	Elizabeth A. Krupinski	36
3982	Ultrasonic Imaging & Signal Process.	K. Kirk Shung, Michael F. Insana	46

2002

Medical Imaging 2002: Physics of Medical Imaging

San Diego, CA 23 - 28 February Vol. 4682 564 papers (90 in Physics) Attendance: 1142

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; APS; CDRH; IS&T; NEMA; RSNA; SCAR

Chairs

Larry E. Antonuk, Martin J. Yaffe

Program Committee

Katherine P. Andriole; John M. Boone; Tom J. Bruijns; Michael J. Flynn; Paul R. Granfors; Andrew D. Maidment; Robert A. Street; John Yorkston; Wei Zhao

Sessions

X-Ray Detectors I - Imaging Physics Volume Imaging I - Breast Imaging Volume Imaging II - Novel Imaging Methods I Fluoroscopy/Real Time - Volume Imaging III X-Ray Detectors II - X-Ray Detectors III/Imaging Physics II Novel Imaging Methods II - Poster Session

Other Conferences

	Other Con	ferences	
Vol #	Title	Editor/Conference Chair	# of papers
4681	Visualization, Image-Guided Procedures, and Display	Seong K. Mun	82
4683	Physiology and Function from Multidimensional Images	Anne V. Clough, Chin-Tu Chen	53
4684	Image Processing	Milan Sonka, J. Michael Fitzpatrick	198
4685	PACS and Integrated Medical Information Sys: Design & Evaluation	Eliot L. Siegel, H. K. Huang	54
4686	Image Perception, Observer Performance, and Technology Assessment	Dev P. Chakraborty, Elizabeth A. Krupinski	40
4687	Ultrasonic Imaging and Signal Processing	Michael F. Insana, William F. Walker	47

Medical Imaging 2001: Physics of Medical Imaging

San Diego, CA Feb 17-23 Vol. 4320 602 papers (103 in Physics) Attendance: 1195

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CDRH; IS&T; NEMA; RSNA; SCAR

Chairs

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Program Committee

Katherine P. Andriole; Tom J. Bruijns; Ian A. Cunningham; James T. Dobbins III; Michael J. Flynn; Andrew D. Maidment; Robert A. Street; Robert F. Wagner; John Yorkston

Sessions

	X-ray Detectors I -	Larry E. Antonuk	
	Imaging Physics I -	lan A. Cunningham	
	Fluoroscopic Imaging -	Katherine P. Andriole	
	Mammography I - A	ndrew D. Maidment	
	X-ray Detectors II	- Robert A. Street	
	CT/MRI - Mic	hael J. Flynn	
	Novel Imaging Methods	I - James T. Dobbins III	
	Imaging Physics II/Key	note - Martin J. Yaffe	
	Volume Imaging	- Tom J. Bruijns	
	Novel Imaging Metho	ds II - John Yorkston	
	X-ray Detectors III -		
	Other Con		
Vol #	Title	Editor/Conference Chair	papers
4319	Visualization, Display, and Image- Guided Procedures	Seong K. Mun	83
4321	Physiology and Function from Multidimensional Images	Chin-Tu Chen, Anne V. Clough	62
4322	Image Processing	Milan Sonka, Kenneth M. Hanson	209
4323	PACS and Integrated Medical Information Sys: Design & Evaluation	Eliot L. Siegel, H. K. Huang	56
4324	Image Perception and Performance	E.A. Krupinski, Dev P Chakraborty	31
4325	Ultrasonic Imaging & Signal Process.	Michael F. Insana, K. Kirk Shung	58

2003

Medical Imaging 2003: Physics of Medical Imaging

San Diego, CA Feb 15-20 Vol. 5030 636 papers (108 in Physics) Attendance: 1073

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CDRH; IS&T; NEMA; RSNA; SCAR

Chairs

Martin J. Yaffe, Larry E. Antonuk

Program Committee

Katherine P. Andriole; Harrison H. Barrett; John M. Boone; Tom J. C. Bruijns; James T. Dobbins III; Michael J. Flynn; Paul R. Granfors; John Yorkston; Wei Zhao

Sessions

Imaging Physics I - John M. Boone

- X-Ray Detectors I Larry E. Antonuk CT - Paul R. Granfors
- Breast Imaging I Martin J. Yaffe

X-Ray Detectors II - Wei Zhao

Novel Imaging Methods - Harrison H. Barrett

Breast Imaging II - John Yorkston

Volume Imaging - US/Tomosynthesis - Michael J. Flynn

Imaging Physics II - James T. Dobbins III X-Ray Detectors III - Tom J. C. Bruijns

Breast Imaging III - Larry E. Antonuk

Other Conferences

	Other Con	leiences	
Vol #	Title	Editor/Conference Chair	papers
5029	Visualization, Image-Guided Procedures, and Display	Robert L. Galloway, Jr.	88
5031	Physiology and Function: Methods, Systems, and Applications	Anne V. Clough, Amir A. Amini	63
5032	Image Processing	Milan Sonka, J. Michael Fitzpatrick	205
5033	PACS and Integrated Medical Information Sys: Design & Evaluation	H. K. Huang, Osman M. Ratib	57
5034	Image Perception, Observer Performance, and Tech Assessment	Dev P. Chakraborty, Elizabeth A. Krupinski	59
5035	Ultrasonic Imaging & Signal Processing	William F. Walker, Michael F. Insana	56

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Medical Imaging 2004: Physics of Medical Imaging

San Diego, CA 14 - 19 February Vol. 5368 653 papers (102 in Physics) Attendance: 1048

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; APS; CDRH; IS&T; NEMA; RSNA; SCAR

Chairs

Martin J. Yaffe, Michael J. Flynn

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Harrison H. Barrett; John M. Boone; Tom J. C. Bruijns; James T. Dobbins III; Paul R. Granfors; John Yorkston; Wei Zhao

Sessions

Imaging Performance - Harrison H. Barrett Computer Tomography I - Tom J. C. Bruijns Imaging Systems Analysis I - James T. Dobbins III Digital Radiography I - John Yorkston Digital Radiography II - Paul R. Granfors Optical/US/Neutron Imaging - Harrison H. Barrett Micro Tomography II - Jiang Hsieh Digital Radiography II - Jiang Hsieh Digital Radiography II - Wei Zhao Imaging Systems Analysis II - Michael J. Flynn Mammography - Martin J. Yaffe Other Conferences

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	ation, Image-Guided ires, and Display	Robert L. Galloway, Jr.	92
	ogy, Function, and Structure dical Images	Amir A. Amini, Armando Manduca	80
5370 Image P	rocessing	J. Michael Fitzpatrick, Milan Sonka	232
5371 PACS a	nd Imaging Informatics	Osman M. Ratib, H. K. Huang	48
5372 Image F	erception, Observer	Dev P. Chakraborty, Miguel P.	60
Perform	ance, and Tech Assessment	Eckstein	
5373 Ultrason	ic Imaging and Signal Proc	William Walker, Stanislav Emelianov	39

2006

Medical Imaging 2006: Physics of Medical Imaging

San Diego, CA 11–16 February Vol. 6142 760 papers (184 in Physics) Attendance: 1169

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CARS; CDRH; IS&T MIPS; NEMA; RSNA; SCAR
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Sessions

Keynote Session - Michael J. Flynn Mammography - Robert M. Nishikawa Tornosynthesis - Richard L. Van Metter X-ray CT: Cardiac - Jiang Hsieh Optical and MR Imaging - Harrison H. Barrett

X-ray Imaging Detectors I & II- John A. Rowlands / Wei Zhao X-ray CT: Systems - Bruce R. Whiting

Innovative Imaging - Jiang Hsieh

X-ray Imaging - Michael Overdick Dual Energy X-ray Imaging - Michael J, Flynn

Computational Simulation - Aldo Badano

CT and DR Performance Assessment - Ehsan Samei

Cone Beam Reconstruction - Jeffrey A. Fessler

CT Image Reconstruction - Thomas Flohr Other Conferences

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Vol #	Title	Editor/Conference Chair	papers
6141	Visualization, Image-Guided Proc. & Display	Kevin Cleary, Robert Galloway, Jr.	94
6143	Physiology, Function & Struct. from Med Im	Armando Manduca, Amir A. Amini	117
6144	Image Processing	Joseph Reinhardt, Josien Pluim	243
6145	PACS and Imaging Informatics	Steven C. Horii, Osman M. Ratib	43
6146	Image Percept., Obs Perform. & Tech Assess	s Yulei Jiang, Miguel P. Eckstein	44
6147	Ultrasonic Imaging and Signal Processing	Stanislay Emelianov, William Walker	35

2005

Medical Imaging 2005: Physics of Medical Imaging

San Diego, CA 12–17 February Vol. 5745 745 papers (144 in Physics) Attendance: 1180

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; APS; CARS; CDRH; IS&T MIPS; NEMA; RSNA; SCAR

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Sessions

	0033	liona	
	Keynote Session	- Michael J. Flynn	
	Image Data Analysis	s - Bruce R. Whiting	
	Innovative Imaging Met	hods - Michael J. Flynn	
	X-ray Computed Tom	ography - Jiang Hsieh	
	X-ray Imaging Det	tectors - Wei Zhao	
	Computational Simulat		
	X-ray Computed Tomog	raphy - Bruce R. Whiting	
	X-ray Imaging Detec		
	Performance Measur		
	Digital Radiograph	v - John Yorkston	
	Tomosynthesis and Dual Energy		
	Other Cor		
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5744	Visualization, Image-Guided Procedures, and Display	Robert L. Galloway, Jr., Kevin R. Cleary	98
5746	Physiology, Function, and Structure from Medical Images	Amir Á. Amini, Armando Manduca	89
5747	Image Processing	Michael Fitzpatrick, Joe Reinhardt	231
5748	PACS and Imaging Informatics	Osman M. Ratib, Steven C. Horii	63
5749	Image Perception, Observer Performance & Tech Assessment	Miguel P. Eckstein, Yulei Jiang	64
5750	Ultrasonic Imaging & Signal Process.	William Walker, Stanislav	56

5750 Ultrasonic Imaging & Signal Process. William Walker, Stanislav Emelianov

2007

Medical Imaging 2007: Physics of Medical Imaging

San Diego, CA 17-22 February Vol. 6510 858 papers (201 in Physics) Attendance: 1278

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CARS; IS&T MIPS; RSNA; SIIM; SMI; DICOM

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Sessions

Dual Energy - Richard L. Van Metter Performance Assessment - John A. Rowlands

Innovative Imaging I & II- Aldo Badano / Michael J. Flynn

- Detector Technology Michael Overdick
 - System Modeling Christoph Hoeschen
 - Cardiac Imaging Jiang Hsieh
 - X-ray Imaging Ehsan Samei
 - Breast Imaging Ehsan Samei
 - Tomosynthesis Robert M. Nishikawa CT Systems - Bruce R. Whiting
 - Signal Corrections Thomas Flohr

Cone Beam Reconstruction - Jeffrey A. Fessler

Advanced Reconstruction - Katsuyuki Taguchi

Other Conferences

Vol #	Title	Editor/	
6509	Visualization and Image-Guided Procedures	Kevin R. Clear	
6511	Physiology, Func, & Structure from Med. Images	Armando Man	
6512	Image Processing	Josien P. W. F	
6513	Ultrasonic Imaging and Signal Processing	Stan. Emelian	
6514	Computer-Aided Diagnosis	Maryellen L. G	
6515	Image Perception, Obs Perform & Tech Assess	Yulei Jiang, Be	
6516	PACS and Imaging Informatics	Steven C. Hor	

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Medical Imaging 2008: Physics of Medical Imaging

San Diego, CA 16-21 February

Vol. 6913 788 papers (181 in Physics) Attendance: 1250

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; APS; CARS; IS&T MIPS; RSNA; SIIM; SMI; DICOM

Chairs

Jiang Hsieh, Ehsan Samei

Program Committee

Aldo Badano: Mats E. Danielsson: Jeffrey A. Fessler: Thomas G. Flohr: Ando Badano, Mals E. Danielsson, Jeliney K. Pessiel, Thomas G. Polit, Christoph Hoeschen; Hee-Joung Kim; Robert M. Nishikawa; Michael Overdick; Norbert J. Pelc; John A. Rowlands; Katsuyuki Taguchi; Richard L. Van Metter; Bruce R. Whiting

Sessions

Keynote and Small Animal Imaging - Jiang Hsieh; Ehsan Samei Innovative Imaging - Aldo Badano Optical and MR Imaging - Mats E. Danielsson X-ray Detectors I & II - Michael Overdick / Bruce R. Whiting Performance Assessment and Phantoms - Ehsan Samei Dual Energy - Jiang Hsieh Breast Tissue Modeling and Estimation - Ehsan Same Breast Imaging - John A. Rowlands Cardiac Imaging - Christoph Hoeschen CT Applications - Robert M. Nishikawa CT System Models - Norbert J. Pelc Systems and Corrections - Thomas G. Flohr Tomographic Reconstruction - Jeffrey A. Fessler Algorithms and Reconstructions - Katsuyuki Taguchi Other Conferences Image Processing Computer-Add Diagnosis Physiology, Function, & Structure from Med. Images Image Parception, Obs. Parformance, & Tech. Assess Visualization, Image-Guided Procedures & Modeling PACS and Imaging Informatics Ultrasonic Imaging and Signal Processing

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nces Joseph M. Reinhardt, Josien P. W. Pluim Maryellen L. Giger, Nico Karssemeijer Xiaoping P. Hu, Anne V. Clough Berkman Sahiner, David J. Manning Michael I. Miga, Kevin R. Cleary Katherine P. Androle, Kham M. Siddiqui Stephen A. McAleavey, Jan D'hooge 170 126 73 51 106 42 39 2009

Medical Imaging 2009: Physics of Medical Imaging

Lake Buena Vista, FL 9-12 February

Vol. 7258 866 papers (201 in Physics) Attendance: 1107

Sponsors, Co-Sponsors & Supporting Organizations SPIE: AAPM: APS: CARS: IS&T MIPS: RSNA: SIIM: SMI: DICOM

Chairs

Ehsan Samei, Jiang Hsieh

Program Committee

Guang-Hong Chen; Mats E. Danielsson; Thomas G. Flohr; Stephen J. Glick; Christoph Hoeschen; Hee-Joung Kim; Iacovos S. Kyprianou; Robert M. Nishikawa; Michael Overdick; Norbert Pelc; Jinyi Qi; John A Rowlands; Jeffrey H. Siewerdsen; Katsuyuki Taguchi; Bruce R. Whiting; John Yorkston

Sessions

Keynote and CT Dose: Tribute to Bruce Hasegawa - Ehsan Samei; Jiang Hsieh CT Performance - Ehsan Samei; Jiang Hsieh CT Applications - Norbert J. Pelc Breast CT - John A. Rowlands Breast Tomosynthesis - Stephen J. Glick Nuclear Medicine - Katsuyuki Taguchi Non-X-Ray Imaging - Hee-Joung Kim; Jinyi Qi X-Ray Detectors - John Yorkston Radiography and Mammography Performance - Christoph Hoeschen; John Rowlands Photon-Counting and Direct-Conversion Systems - Mats E. Danielsson Tomosynthesis - Christoph Hoeschen CT Algorithms - Thomas G. Flohr CT Corrections - Jeffrey H. Siewerdsen CT Hot Topics - Guang-Hong Chen CT Reconstruction - Bruce R. Whiting Josien P. W. Pluim, Benoi Nico Karssemeijer, Marye Michael I. Miga, Kenneth I Xiaoping P. Hu, Anne V. C Berkman Sahiner, David Id Procedures, and Modeling httchaer i.e a alar, Structural, and Functional Imaging ar Performance, & Tech Assessment aging Informatics and Therapeutic Appl Stophen A

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2010

Medical Imaging 2010: Physics of Medical Imaging

San Diego, CA 13-18 February

Vol. 7622 811 papers (190 in Physics) Attendance: 1094

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CARS; IS&T MIPS; RSNA; SIIM; SMI; DICOM

Chairs

Ehsan Samei, Norbert J. Pelc

Program Committee

Guang-Hong Chen; Dianna D. Cody; Mats E. Danielsson; Thomas G. Flohr; Stephen J Glick; Michael Grass; Christoph Hoeschen; Hee-Joung Kim; Iacovos S. Kyprianou; Robert M Nishikawa; Jinyi Qi; John A Rowlands; John M. Sabol; Jeffrey H. Siewerdsen; Katsuyuki Taguchi; Bruce R. Whiting; John Yorkston

Sessions

Keynote and Radiation Therapy Imaging - Ehsan Samei; Norbert J. Pelc Breast Imaging - Robert M. Nishikawa; Christoph Hoeschen

Breast Tomosynthesis - Stephen J. Glick; Jeffrey H. Siewerdsen

Performance Evaluation - John M. Sabol; Aldo Badano

X-ray Phase-Contrast Imaging - Hee-Joung Kim; Norbert J. Pelc

Novel Imaging Topics - Christoph Hoeschen; Bruce R. Whiting Breast Imaging - Measurement Techniques - John Yorkston; Ehsan Samei

Selenium-based Detectors - John A. Rowlands; John Yorkston

Photon Counting Detectors - Mats E. Danielsson; John M. Sabol

CT Dose, Quality, and Techniques - Thomas G. Flohr; Michael Grass Detectors - Katsuyuki Taguchi; Stephen J. Glick

CT Algorithms - Jinvi Qi: Guang-Hong Chen

CT: Dual Energy and Photon-counting - Dianna D. Cody, Mats E. Danielsson CT Algorithms and Compressed Sensing - Guang-Hong Chen, Bruce R. Whiting

	Cone Beam CT - Jenne	ey H. Siewerdsen; Michael Grass
623	Image Processing	Benoit M. Dawant, David R. Haynor
624	Computer-Aided Diagnosis	Nico Karssemeijer, Ronald M. Summers

7625	Visualization, Image-Guided Procedures, and Modeling	Kenneth H. Wong, Michael I. Miga	118
7626	Biomedical Appl. in Molecular, Structural, and Functional Imaging	Robert C. Molthen, John B. Weaver	74
7627	Image Perception, Observer Performance, & Tech Assessment	David J. Manning, Craig K. Abbey	48
7628	Advanced PACS-based Imaging Informatics and Therapeutic Appl.		36

2011

Medical Imaging 2011: Physics of Medical Imaging

Lake Buena Vista, FL 13–17 February Vol. 7961 864 papers (204 in Physics) Attendance: 1136

Sponsors, Co-Sponsors & Supporting Organizations SPIE; AAPM; APS; CARS; IS&T MIPS; RSNA; SIIM; SMI; DICOM

Chairs

Norbert J. Pelc, Ehsan Samei, Robert M. Nishikawa

Program Committee

Guang-Hong Chen; Dianna Cody; Mats Danielsson; Maria Drangova; Thomas Flohr; Stephen J. Glick; Michael Grass; Christoph Hoeschen; Marc Kachelriess; Karim S. Karim; Hee-Joung Kim; Despina Kontos; Iacovos Kyprianou; Jinyi Qi; John A. Rowlands; John M. Sabol; Taly Gilat Schmidt; Jeffrey H. Siewerdsen; Katsuyuki Taguchi; Anders Tingberg; Bruce R. Whiting; John Yorkston;

Sessions

Keynote and Imaging and Health Economics - Norbert J. Pelc; Ehsan Samei

X-ray Imaging - John A. Rowlands; Christoph Hoeschen

Metrology - Robert M. Nishikawa; John Yorkston

Iterative and Statistical Reconstruction - Jinyi Qi; Guang-Hong Chen

Detectors I & II- John Yorkston; John A. Rowlands / Karim S. Karim; Mats Danielsson

Breast Imaging - Anders Tingberg; Stephen J. Glick

Tomosynthesis I: Reconstruction - John M. Sabol; Michael Grass

Tomosynthesis II - Despina Kontos; Anders Tingberg

X-ray Imaging: Phase Contrast Diffraction - Jeffrey H. Siewerdsen; Taly Gilat Schmidt

Image Reconstruction - Bruce R. Whiting; Katsuyuki Taguchi

CT III: Multi-energy - Thomas G. Flohr; John M. Sabol

Novel Systems - Mats Danielsson; Taly Gilat Schmidt

CT IV: Cone Beam - Maria Drangova; Marc Kachelriess

Dose - lacovos S. Kyprianou; Hee-Joung Kim

Two Special Sessions on Dose with a Panel Discussion - Ehsan Samei; Dianna D. Cody / Christoph Hoeschen; Michael F. McNitt-Gray / Ehsan Samei

7962	Image Processing
7963	Computer-Aided Diagno

964	Visualization, Image-Guided Procedures, and Modeling
965	Biomedical Applications in Molecular, Structural, and Function

 Biomedical Applications in Molecular, Sciucural, and Policular Image Image Perception, Observer Performance, and Technology Assessme 967 Advanced PACS-based Imaging Informatics and Therapeutic Applicat Ultrasnotic Imaging Tomography and Therapy

Benoit M. Dawant, David R. Haynor Ronald M. Summers, Bram van Ginneken
Kenneth H. Wong, David R. Holmes III
John B. Weaver, Robert C. Molthen
David J. Manning, Craig K. Abbey
William W. Boonn, Brent J. Liu
Jan D'hooge, Marvin M. Dovley

2012

Medical Imaging 2012: Physics of Medical Imaging

San Diego, CA Feb 5-9

Vol. 8313 909 papers (233 in Physics) Attendance: ?

Sponsors, Co-Sponsors & Supporting Organizations

SPIE; AAPM; APS; CARS; MIPS; RSNA; SIIM; SMI; WMIS; DICOM

Chairs

Norbert J. Pelc, Robert M. Nishikawa, Bruce Whiting

Program Committee

Hilde Bosmans; Guang-Hong Chen; Dianna D Cody; Mats E Danielsson; Maria Drangova; Thomas G. Flohr; Stephen J. Glick; Michael Grass; Christoph Hoeschen; Marc Kachelriess; Karim S Karim; Hee-Joung Kim; Despina Kontos; lacovos S. Kyprianou; Joseph Y Lo; Jinyi Qi; John A Rowlands; John M Sabol; Taly G. Schmidt; Jeffrey H. Siewerdsen; Anders Tingberg; John Yorkston

Sessions

Keynote and 3D Breast Imaging - Norbert J. Pelc; Robert M. Nishikawa

3D Breast Imaging - Hilde Bosmans; Joseph Y. Lo

Breast Multi-Energy/Photon Counting - Mats E. Danielsson; Stephen J. Glick

Mammography - Anders Tingberg; Despina Kontos

X-Ray Imaging - Hee-Joung Kim; Karim S. Karim

Small Animal Imaging - John Yorkston; Maria Drangova

Photon Counting Systems and Techniques - Taly G. Schmidt; Jeffrey H. Siewerdsen

General Radiography and Fluoroscopy - John A. Rowlands; Hee-Joung Kim

Cone Beam CT - Iacovos S. Kyprianou; John Yorkston

CT - Dianna D. Cody; Marc Kachelriess

CT Detection Performance - Jinyi Qi; Bruce R. Whiting

Dose - Christoph Hoeschen; Dianna D. Cody

Reconstruction I & II -Guang-Hong Chen; Michael Grass/ Thomas Flohr; Jeff Siewerdsen Tomosynthesis Reconstruction - John M. Sabol; lacovos S. Kyprianou

Image Processing	David R. Haynor, Sebastien Ourselin
Computer-Aided Diagnosis	Bram van Ginneken, Carol L. Novak
Image-Guided Procedures.Robotic Interventions and Modeling	David R. Holmes III, Kenneth H. Wong

- 8315 8316 Robert C. Molthen, John B. Weaver 8317 Biomedical Applications in Molecular, Structural, and Functional Imaging
- 8318 Image Perception, Observer Performance, and Technology Assessment Craig K. Abbey , Claudia Mello-Thoms William W. Boonn, Brent J. Liu 8319 Advanced PACS-based Imaging Informatics and Therapeutic Applications Johan G. Bosch, Marvin M. Doyley

8320 Ultrasonic Imaging, Tomography, and Therapy

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Abbreviations

Association for the Advancement of Medical Instrumentation AAMI AAPM American Association of Physicists in Medicine ACR American College of Radiology American Physiological Society APS ARRS American Roentgen Ray Society ASNR American Society of Neuroradiology BiOS **Biomedical Optics Society** Bureau of Radiological Health, Department of Health, Education And Welfare BRH Computer Assisted Radiology and Surgery CARS CDRH Center for Devices and Radiological Health, FDA DICOM The DICOM Standards Committee EFOMP European Federation of Organizations for Medical Physics IEEE Engineering in Medicine and Biology Group EMBG EMBS IEEE—The Institute of Electrical and Electronics Engineers/Engineering in Medicine and Biology Society IEEE-CS IEEE Computer Society, Technical Committee on Computational Medicine IRS Institute for Regulatory Science The Society for Imaging Science and Technology IS&T JPL Jet Propulsion Laboratory MIPS Medical Image Perception Society NEMA National Electrical Manufacturers Association/Diagnostic Imaging and Therapy, Systems Division OSA The Optical Society of America RISC Radiology Information System Consortium RSNA Radiological Society of North America SCAR Society for Computer Applications in Radiology SIIM Society for Imaging Informatics in Medicine SMI The Society for Molecular Imaging SNM The Society of Nuclear Medicine SPIE The Society of Photo-Optical Instrumentation Engineers SPSE The Society of Photographic Scientists and Engineers SRE Society for Radiological Engineering UWMS University of Wisconsin Medical School WMIS World Molecular Imaging Society