12th International Workshop on

Breast Imaging

June 29 - July 2, 2014

Juroku Plaza

Gifu City, Japan

岐阜

Conference Organization

Workshop Chair

Hiroshi Fujita	Gifu University, Japan

Scientific Committee

Susan M. Astley	University of Manchester, UK
Ulrich Bick	Charité University, Germany
Hilde Bosmans	University Hospitals of KU Leuven, Belgium
Hiroshi Fujita	Gifu University, Japan
Maryellen L. Giger	University of Chicago, USA
Takeshi Hara	Gifu University, Japan
Nico Karssemeijer	Radboud University Nijmegen Medical Centre The Netherlands
Elizabeth A. Krupinski	University of Arizona, USA
Andrew D.A. Maidment	University of Pennsylvania, USA
Joan Martí	University of Girona, Spain
Etta D. Pisano	Medical University of South Carolina, USA
Martin J. Yaffe	University of Toronto, Canada
Reyer Zwiggelaar	Aberystwyth University, UK

Local Organizing Committee Chairs

Chisako Muramatsu	Gifu University, Japan
Xiangrong Zhou	Gifu University, Japan

Local Organizing Committee

Daisuke Fukuoka	Gifu University, Japan
Tomoko Matsubara	Nagoya Bunri University, Japan
Hiroko Nishide	Gifu University of Medical Science, Japan
Norimitsu Shinohara	Gifu University of Medical Science, Japan

Special Advisors

Kunio Doi	University of Chicago, USA Gunma Prefectural College of Health Sciences, Japan
Tokiko Endo	National Hospital Organization Higashi Nagoya National Hospital, Japan

Advisory Board

Tetsuro Katafuchi	Gifu University of Medical Science, Japan
Yoshie Kodera	Nagoya University, Japan
Woo Kyung Moon	Seoul National University Hospital, Republic of Korea
Shigeru Nawano	International University of Health and Welfare Mita Hospital, Japan
Shigeru Sanada	Kanazawa University, Japan
Nachiko Uchiyama	National Cancer Center, Japan

Academic Partners:

IEEE Nagoya Section
Japanese Society of Breast Cancer Imaging, Digital Mammography Sectional Committee
Japanese Society for Medical and Biological Engineering-Tokai Branch
Japan Society of Medical Imaging and Information Sciences
Japanese Society of Medical Imaging Technology
Japan Society of Radiological Technology
Korean Society of Breast Imaging

Cooperating Organizations:

Experience Gifu
Konica Minolta Science and Technology Foundation
Gifu Convention and Visitors Bureau
Gifu International Association
Gifu University Hougaku Club
Gifu University Urasenke Chado Club
Japan Radiology Congress
NICT International Exchange Program
Research Foundation for the Electrotechnology of Chubu
Seijinkai
Sohga Kimono School
Springer
Support Center for Advanced Telecommunications Technology Research
Tateisi Foundation
Team Gifu, 岐阜武将隊　信義徹誠 feat. Amatsukaze
The Uehara Memorial Foundation

Sponsors:

** Technical Exhibits at 2F Foyer and 5F*

Analogic Corporation
* Barco Co., Ltd.
Canon Inc.
* Climb Medical Systems, Inc.
* Devicor Medical Japan K.K.
EIZO, Co.
EVO Worldwide
* FUJIFILM Medical Co., Ltd.
* GE Healthcare
Hitachi-Aloka Medical, Ltd.
Hologic. Inc.
Hymnzone Technology Corporation
INNERVISION CO.
* JVCKENWOOD Corporation (TOTOKU)
* Konica Minolta Health Care Co., Ltd.
Kyoto Kagaku Co., Ltd.
Matakina International Ltd.
Nihon Medi-Physics Co., Ltd.
* Panasonic Medical Solutions Co., Ltd.
Planmed Oy
Philips Electronics Japan, Ltd.
Toshiba Medical Systems Corporation
* TOYO Corporation
TOYO MEDIC CO.,Ltd.
Varian Medical Systems, Inc.
Wind River K.K.

Sponsors

analogic
Innovative Solutions for Life

BARCO
Visibly yours

Canon

Climb®

Mammotome
a division of DEVICOR MEDICAL PRODUCTS, INC.

EIZO®

EVO
WORLDWIDE

FUJIFILM

GE Healthcare

HITACHI
Inspire the Next

ALOKA
illuminate the change

HOLOGIC®
Extraordinarily powerful care

Hymnzone

innavi net

TOTOKU

KONICA MINOLTA

KYOTO KAGAKU CO.,LTD

volpara
solutions

nihon
medi+physics

Panasonic

Planmed

PHILIPS

TOSHIBA

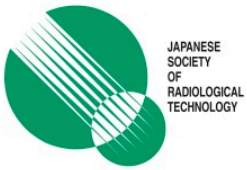
株式会社 TOYO Corporation
東陽テクニカ

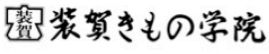
For All Your Tomorrows
TOYO MEDIC

VARIAN
medical systems

WIND RIVER

Academic and Cooperating Organizations





IWDM 2014
Gifu University
Student Event

Experience Japan
Monday & Tuesday

All IWDM participants and family members are invited to join a tea ceremony.

Monday & Tuesday: 9:30, 10:00, 11:00, 13:10, 13:40, 14:10, Juroku Plaza, 5th floor

Free reservation tickets are available at the registration desk

Conference venue:

Juroku Plaza （じゅうろくプラザ）
Address: 1-10-11, Hashimoto-cho
Gifu City, Gifu 500-8856, Japan
TEL: +81-58-262-0150

Oral sessions:

Juroku Plaza, 2F Hall

Poster sessions:

Juroku Plaza, 5F Conference rooms

Technical exhibits:

Juroku Plaza, 2F Foyer & 5F Conference rooms

Publication of Conference proceedings:

Lecture Notes in Computer Science by Springer, Vol. 8539 (ISSN 0302-9743)
(Date of issue: June 22, 2014)

Coffee breaks:

Juroku Plaza, 5F Conference rooms & 2F Foyer (short break only)

Welcome reception:

Juroku Plaza, 2F Foyer & 2F Hall

Gala dinner:

Gifu Miyako Hotel
Address: 2695-2, Nagara Fukumitsu, Gifu City, Gifu 502-0817, Japan
TEL: +81-58-295-3100

Smoking:

Smoking is ONLY permitted in the SMOKING ROOM on the 2F of Juroku Plaza.

Family waiting room:

Juroku Plaza, 4F meeting room and 3F dance studio for children.
No supervising staff will be in attendance.

Technical exhibits:

Barco Co. Ltd (2F Foyer)
FUJIFILM Medical Co., Ltd. (5F, Booth #1)
Konica Minolta Health Care Co., Ltd. (5F, Booth #2)
Climb Medical Systems, Inc. (5F, Booth #3)
Devicor Medical Japan K.K. (5F, Booth #4)
JVCKENWOOD Corporation (TOTOKU) (5F, Booth #5)
TOYO Corporation. (5F, Booth #6)
Panasonic Medical Solutions Co., Ltd. (5F, Booth #7)
GE Healthcare (5F, Booth #8 & 9)

General Information:

Internet avalability at the venue

Available only on the 5th floor for poster sessions and technical exhibits. Power outlets (100V) are available on the 5th floor.

Bicycle rental

You can rent a bicycle in Gifu City. Please bring photo identification for registration. The fee is 100 yen per day. See website for further details: http://www.city.gifu.lg.jp/9790.htm (Japanese only)

Presenter Information:

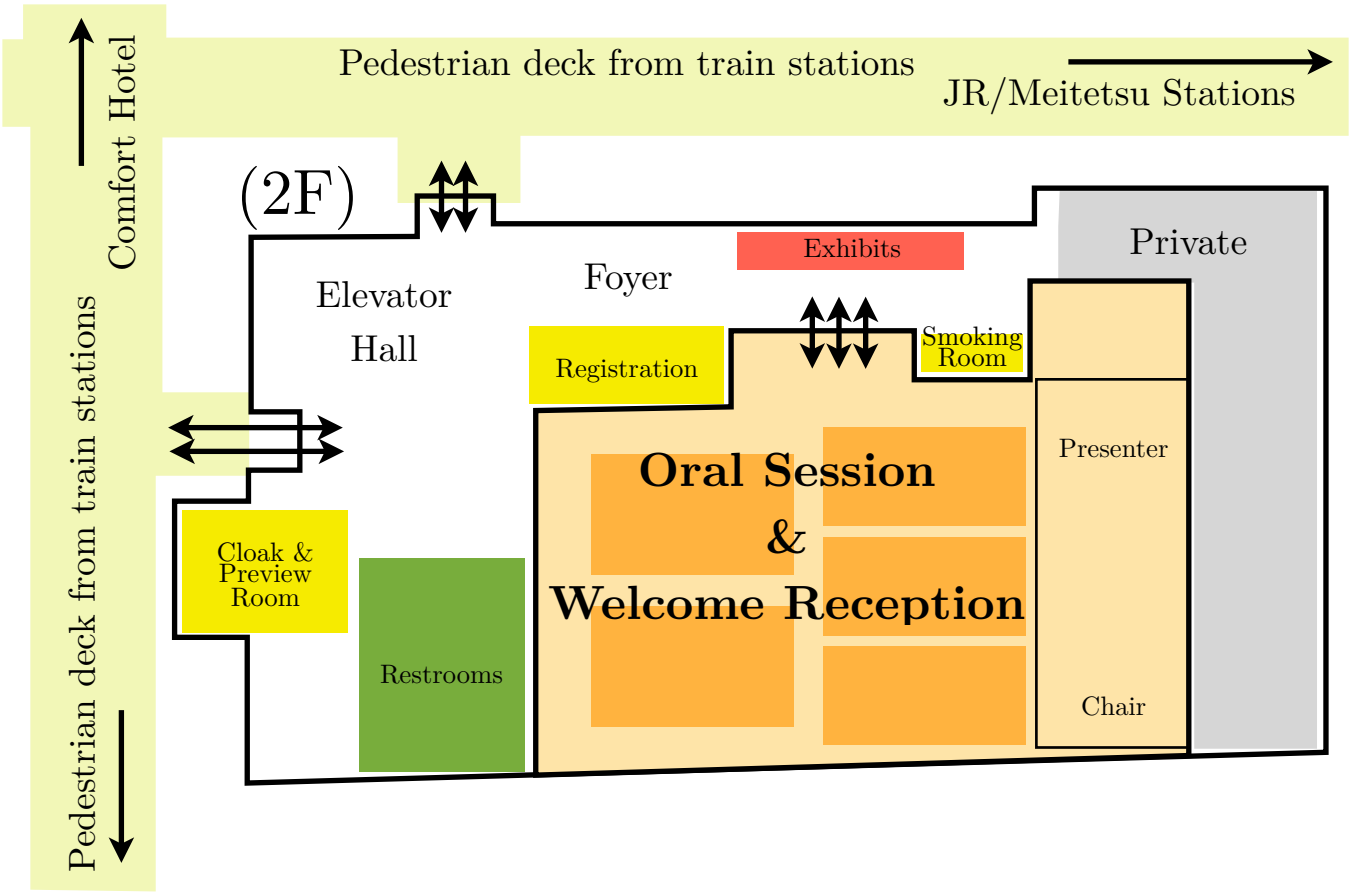
Oral Presentations

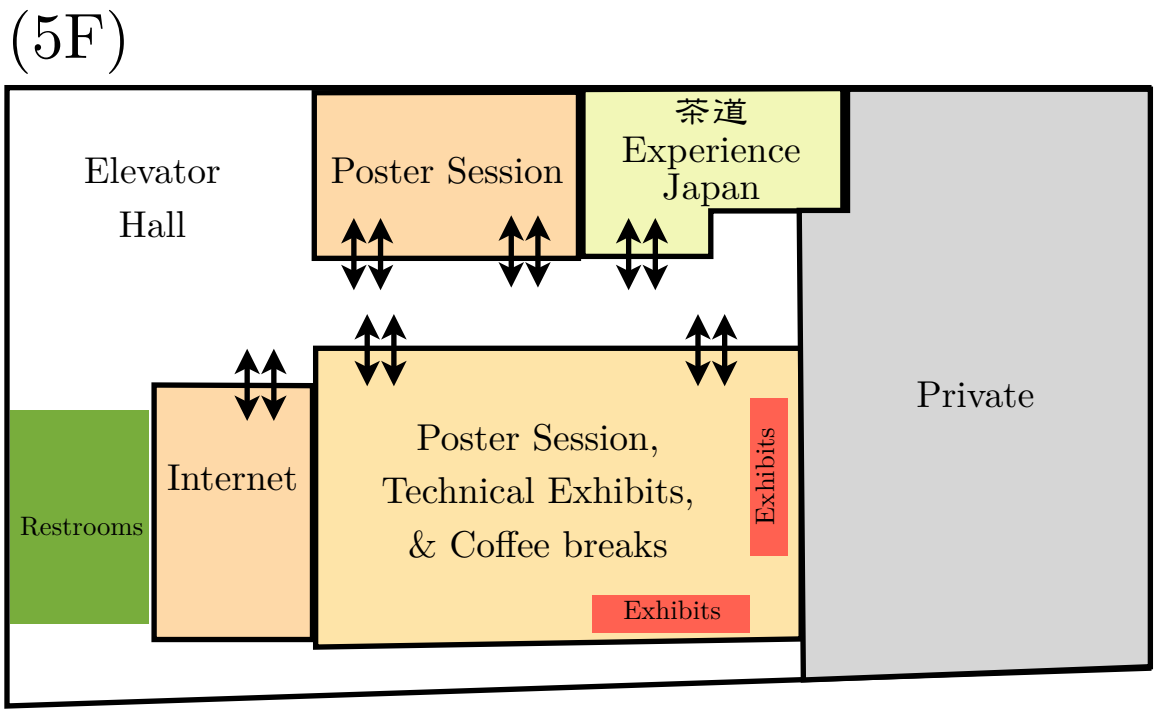
20 minutes presentation (15 minutes for talk following 5 minutes for discussion).
You can use your own PC with D-sub 15pin VGA output for the presentation.
Staffs at the conference room will help with the connection.
Staff will have a laptop (Windows 7) with MS PowerPoint in case your computer can't connect to the projector. The PowerPoint is the 2013 version, in Japanese.
Please bring a backup of your work on a USB memory stick.
Preview room for speakers will be available on the 2nd floor next to the registration desk. There will be no public PCs available in the room, so please bring your own laptop. Power outlets are available in the room and the poster area in the 5th floor.

Poster Presentations

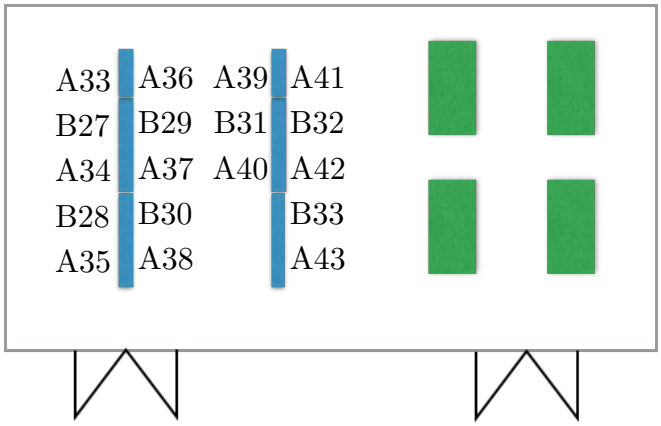
Poster Session I (Monday) : A01 to A43
Poster Session II (Tuesday): B01 to B33
Poster presenters must be present during their designated sessions. Poster set-up time is Sunday, 16:00 - 20:00 and Monday, 8:00 - 10:00. Posters remaining after 13:00 on Wednesday are discarded by the program committee members.

Floor map (2F & 5F)





Posters & Technical Exhibits: (5F)



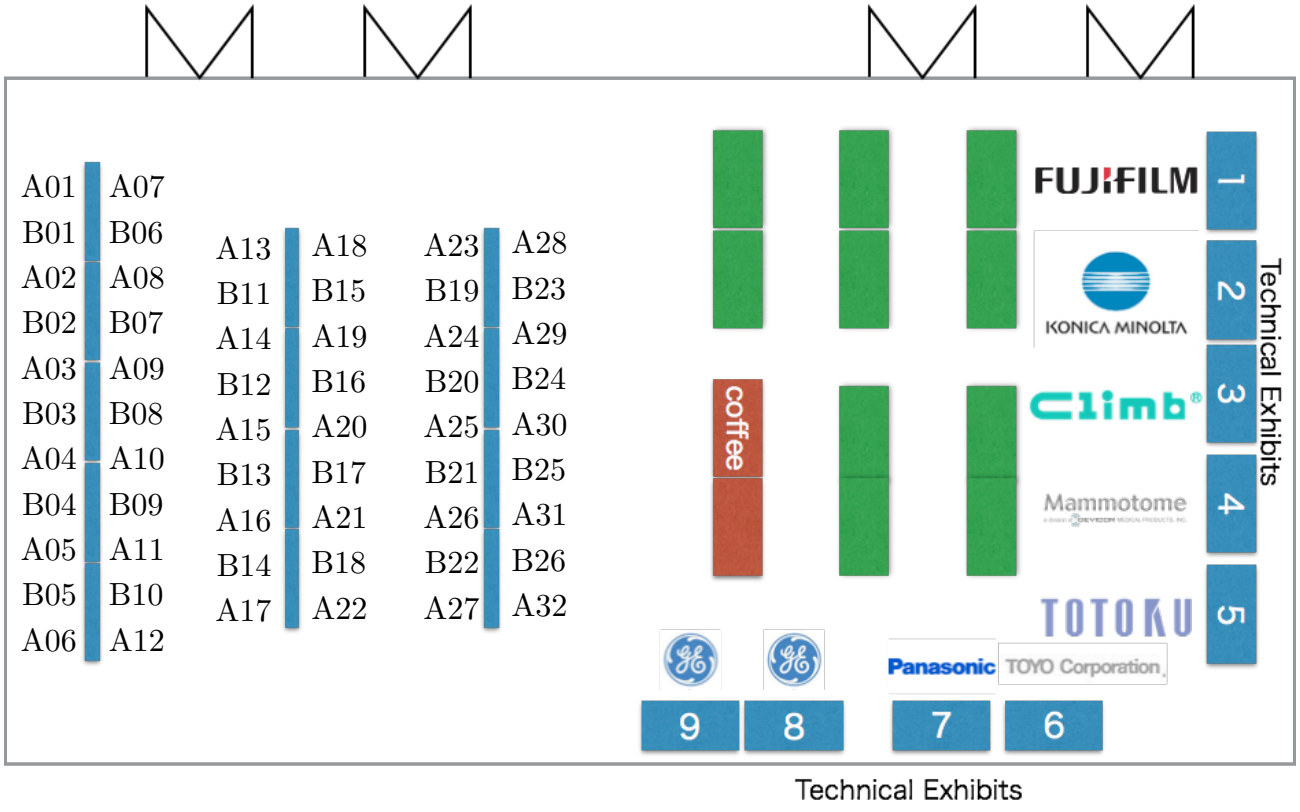
Poster hours

A01-A43

Monday, 13:15 - 14:30

B01-B33

Tuesday, 13:15 - 14:30



BARCO Technical Exhibit is located at Foyer in front of 2F Main Hall.

SUNDAY
June 29

MONDAY
June 30

8AM

Registration (2F/7:30)

Opening (2F Hall/8:20)

9AM

Session 1: Screening Outcomes
Keynote: Dr. Maidment
Chair: Dr. Krupinski
(2F/8:30-10:00)

10AM

Coffee Break
(5F/10:00-10:30)

11AM

Session 2: Ultrasound
Keynote: Dr. Chang
Chair: Dr. Giger
(2F/10:30-11:40)

12PM

Luncheon Seminar 1
Supported by
Hitachi-Aloka Medical Ltd.
Speaker: Dr. Shiina
Chair: Dr. Tohno
(2F/12:00-13:00)

1PM

(Set-up)

2PM

Poster Session 1 & Coffee Break
(5F/13:15-14:30)

3PM

Plenary Lecture
Dr. Ohuchi
Chair: Dr. Fujita
(2F/14:45-15:30)

4PM

Session 3: Clinical Evaluation
Keynote: Dr. Moon
Chair: Dr. Pisano
(2F/15:30-17:00)

5PM

Poster set-up (5F) / Registration (2F)
(16:00-20:00)

Short Break (17:00-17:15)

Session 4: Breast Density
Keynote: Dr. Ng
Chair: Dr. Yaffe
(2F/17:15-18:25)

Drinks Reception from 17:30

6PM

Welcome Reception
Culture talk
Special event
(2F Hall & Foyer/18:00-20:00)

7PM

TUESDAY
July 1

Registration (2F/7:30)

Session 5: Imaging Physics I
Keynote: Dr. O'conner
Chair: Dr. Astley
(2F/8:30-10:00)

Coffee Break
(5F/10:00-10:30)

Session 6: CAD
Keynote: Dr. Marshall
Chair: Dr. Karssemeijer
(2F/10:30-11:40)

Luncheon Seminar 2
Supported by
FUJIFILM Medical Co., Ltd.
Speaker: Dr. Müller-Leisse
Dr. Schulze-Hagen/Chair: Dr. Endo
(2F/12:00-13:00)

Poster Session 2 & Coffee Break
(5F/13:15-14:30)

Session 7: Tomosynthesis
Keynote: Dr. Pisano
Chair: Dr. Maidment, Dr. Zwiggelaar
(2F/14:45-)

Short Break (16:15-16:30)

(session continues, -17:10)

Shuttle buses depart at
18:15 in front of venue

Gala Dinner
19:00 - 22:00
(Gifu Miyako Hotel)

WEDNESDAY
July 2

Cloakroom available on 2nd floor

Registration (2F/8:00)

Session 8: Imaging Physics II
Chair: Dr. Bosmans
(2F/8:40-10:00)

Coffee Break
(5F/10:00-10:30)

Session 9: ICT & Image Processing
Keynote: Dr. Krupinski
Chair: Dr. Martí
(2F/10:30-12:00)

Closing (12:00-12:10)

Poster removal (12:10-13:00)

Experience Japan

Monday & Tuesday

茶　道

Chado

Tea ceremony

Enjoy Japanese green tea
and sweets

Free reservation tickets
are available at
the registration desk

All participants and family
members are invited

8AM
9AM
10AM
11AM
12PM
1PM
2PM
3PM
4PM
5PM
6PM
7PM

Special Speakers

Plenary Lecture

Monday, 14:45 - 15:30, June 30

Effectiveness of Ultrasonography Screening for Breast Cancer; Up-dated Data from the RCT of 76,196 Women Aged 40-49 (J-START)

Noriaki Ohuchi, MD, PhD
Tohoku University Graduate School of Medicine, Japan

Session chair:
Hiroshi Fujita, PhD
Gifu University, Japan

Keynotes

Session 1: (Monday, 8:30 - 9:00, June 30)
Virtual Clinical Trials for the Assessment of Novel Breast Screening Modalities
Andrew D.A. Maidment, PhD, University of Pennsylvania, USA

Session 2: (Monday, 10:30 - 11:00, June 30)
Computer-aided Diagnosis for B-mode, Elastography and Automated Breast Ultrasound
Ruey-Feng Chang, PhD, National Taiwan University, Taiwan

Session 3: (Monday, 15:30 - 16:00, June 30)
Breast Imaging Diagnosis and Screening in Korea
Woo Kyung Moon, MD, PhD, Seoul National University Hospital
Republic of Korea

Session 4: (Monday, 17:15 - 17:45, June 30)
Measurement and Clinical Use of Breast Density
Kwan-Hoong Ng, PhD, MIPEM, DABMP, University of Malaya, Malaysia

Session 5: (Tuesday, 8:30 - 9:00, July 1)
Low-Dose Molecular Breast Imaging - Diagnostic and Screening Applications in Women with Dense Breasts
Michael K. O'Connor, Ph.D., FAAPM, Mayo Clinic, USA

Session 6: (Tuesday, 10:30 - 11:00, July 1)
Will New Technologies Replace Mammography CAD as We Know It?
Julian Marshall, Hologic, Inc., USA

Session 7: (Tuesday, 14:45 - 15:15, July 1)
Tomosynthesis: What We Know Now and Why TMIST Is Needed
Etta D. Pisano, MD, Medical University of South Carolina, USA

Session 9: (Wednesday, 10:30 - 11:00, July 2)
Advanced Telecommunications in Breast Imaging - Streamlining Telemammography, Telepathology & Teleoncology Services to Improve Patient Care
Elizabeth A. Krupinski, PhD, University of Arizona, USA

Luncheon seminar 1

Monday, 12:00 - 13:00, 2F Hall

Real-time Tissue Elastography: Theory and Usefulness for Breast Cancer Diagnosis

Tsuyoshi Shiina, Dr. of Eng. & Med. Sc.
Graduate School of Medicine, Kyoto University, Japan

Session chair:
Eriko Tohno, MD
Total Health Evaluation Center Tsukuba, Japan

Supported by Hitachi-Aloka Medical, Ltd.

Luncheon seminar 2

Tuesday, 12:00 - 13:00, 2F Hall

Clinical Benefit Using Tomosynthesis

Ch Müller-Leisse, MD
Mechthild Schulze-Hagen, MD
Maria Hilf Mönchengladbach, Germany

Session chair:
Tokiko Endo, MD
National Hospital Organization Higashi Nagoya National Hospital, Japan

Supported by FUJIFILM Medical Co., Ltd.

FUJIFILM

Welcome Reception

IWDM 2014

Sunday, June 29

Juroku Plaza, 2F Hall, 18:00 - 19:30
2F Foyer, 18:00 - 20:00
Registration and poster area are open at 16:00
Drinks Reception from 17:30
Dress code: Casual

Culture talk:

(18:30 - 19:00)

Gifu, the Heartland of Japan
- History, culture and customs -

Sally Wals
Coordinator for International Relations
Gifu International Center

Special event:

(19:00 - 19:30)

Kimono: Past and Present

光源氏の物語の舞

Dance of the tale of Hikaru Genji

This dance is inspired by the famous novel *The Tale of Genji*. Dancers in Kimono will portray a scene of Prince Hikaru Genji with a group of women.

着付けの舞

Dance of dressing in a Kimono

A display of how to put on a Kimono, in time to music.

All registered persons together with their family are welcome
(A light meal will be served with Japanese sake, wine, beer, and soft drink)

In cooperation with
Sohga Kimono School
President **Takako Yasuda**

Sunday, June 29	
16:00-	**Poster setup, 5F / Registration, 2F**
18:00-20:00	**Welcome Reception (2F Hall & Foyer)** **Culture talk (18:30 - 19:00)** Gifu, the Heartland of Japan - History, culture and customs - Sally Wals, Coordinator for International Relations, Gifu International Center **Special event (19:00 - 19:30)** Kimono: Past and Present Dance of the tale of Hikaru Genji Dance of dressing in a Kimono Cooperated by Sohga Kimono School, President Takako Yasuda

Drinks Reception from 17:30. All registered persons together with their family are welcome.

Monday, June 30	
8:20-8:30	**Opening remarks**
8:30-10:00	**Session 1: Screening Outcomes** Chair: Elizabeth A. Krupinski, University of Arizona, USA
8:30-9:00	**Keynote** Virtual Clinical Trials for the Assessment of Novel Breast Screening Modalities Andrew D.A. Maidment, PhD, University of Pennsylvania, USA
9:00-9:20	Predicting the Benefit of Using CADe in Screening Mammography Robert Nishikawa, Andriy Bandos
9:20-9:40	Modeling Breast Cancer Screening Outcomes Martin Yaffe, Nicole Mittmann, Natasha Stout, Pablo Lee, Anna Tosteson
9:40-10:00	The Impact of Introducing Full Field Digital Mammography into a Screening Programme Thomas Fyall, Caroline Boggis, Jamie Sergeant, Elaine Harkness, Sigrid Whiteside, Julie Morris, Mary Wilson, Susan Astley
10:00-10:30	**Coffee Break, 5F** Sponsored by Hologic Inc.

(continued next page)

10:30-11:40	**Session 2: Ultrasound** Chair: Maryellen L. Giger, University of Chicago, USA
10:30-11:00	**Keynote** Computer-aided Diagnosis for B-mode, Elastography and Automated Breast Ultrasound Ruey-Feng Chang, PhD, National Taiwan University, Taiwan
11:00-11:20	Fully Automated Nipple Detection in 3D Breast Ultrasound Images Lei Wang, Tobias Böhler, Fabian Zöhrer, Joachim Georgii, Claudia Rauh, Peter Fasching Barbara Brehm, Rüdiger Schulz-Wendtland, Matthias W. Beckmann, Michael Uder Horst Hahn
11:20-11:40	Breast Imaging with 3D Ultrasound Computer Tomography: Results of a First In-vivo Study in Comparison to MRI images Torsten Hopp, Lukas Šroba, Michael Zapf, Robin Dapp, Ernst Kretzek Hartmut Gemmeke, Nicole V. Ruiter
12:00-13:00	**Luncheon Seminar 1** Real-time Tissue Elastography: Theory and Usefulness for Breast Cancer Diagnosis Tsuyoshi Shiina, Dr. of Eng. & Med. Sc. Graduate School of Medicine, Kyoto University, Japan **Session chair** Eriko Tohno, MD Total Health Evaluation Center Tsukuba, Japan (Supported by Hitachi-Aloka Medical, Ltd.)
13:15-14:30	**Poster Session 1 (A01-A43) & Coffee Break, 5F** Coffee break sponsored by Canon Inc.
14:45-15:30	**Plenary Lecture** Effectiveness of Ultrasonography Screening for Breast Cancer; Up-dated Data from the RCT of 76,196 Women Aged 40-49 (J-START) Noriaki Ohuchi, MD, PhD Tohoku University Graduate School of Medicine, Japan **Session chair** Hiroshi Fujita, PhD Gifu University, Japan

(continued next page)

15:30-17:00	**Session 3: Clinical Evaluation** Chair: Etta D. Pisano, Medical University of South Carolina, USA
15:30-16:00	**Keynote** Breast Imaging Diagnosis and Screening in Korea Woo Kyung Moon, MD, PhD, Seoul National University Hospital, ROK
16:00-16:20	Columnar Cell Lesions and Atypical Ductal Hyperplasia Diagnosed on Ultrasound-guided Core Biopsy: Radiologic Finding Associated with Underestimation Hye Shin Ahn, Mijung Jang, Sun Mi Kim, Bo La Yun, Kyung Eun Cho
16:20-16:40	Supplemental Screening US of the Breast in Asian Women: Immediate and Long-term Outcome Analysis Ji-Young Hwang, Boo-Kyung Han, Eun Young Ko, Jung Hee Shin, Soo Yeon Hahn Mee Young Nam
16:40-17:00	Reassessment and Follow-up Results of BI-RADS Category 3 Lesions Detected on Screening Breast US Eun Young Chae, Joo Hee Cha, Hak Hee Kim, Hee Jung Shin, Woo Jung Choi
17:00-17:15	**Short Break, 2F Foyer**
17:15-18:25	**Session 4: Breast Density** Chair: Martin J. Yaffe, University of Toronto, Canada
17:15-17:45	**Keynote** Measurement and Clinical Use of Breast Density Kwan-Hoong Ng, PhD, MIPEM, DABMP, University of Malaya, Malaysia
17:45-18:05	Factors Affecting Agreement between Breast Density Assessment Using Volumetric Methods and Visual Analogue Scales Lucy Beattie, Elaine Harkness, Megan Bydder, Jamie Sergeant, Anthony Maxwell Nicky Barr, Ursula Beetles, Caroline Boggis, Sara Bundred, Soujanya Gadde, Emma Hurley Anil Jain, Elizabeth Lord, Valerie Reece, Mary Wilson, Paula Stavrinos, Gareth Evans Tony Howell, Susan Astley
18:05-18:25	Breast Tissue Segmentation and Mammographic Risk Scoring Using Deep Learning Kersten Petersen, Mads Nielsen, Pengfei Diao, Nico Karssemeijer, Martin Lillholm

Tuesday, July 1	
8:30-10:00	**Session 5: Imaging Physics I** Chair: Susan M. Astley, University of Manchester, UK
8:30-9:00	**Keynote** Low-Dose Molecular Breast Imaging - Diagnostic and Screening Applications in Women with Dense Breasts Michael K. O'Connor, Ph.D., FAAPM, Mayo Clinic, USA
9:00-9:20	Optimization of X-ray Spectra for Dual-energy Contrast-enhanced Breast Imaging: Dependency on CsI Detector Scintillator Thickness Pablo Milioni de Carvalho, Ann-Katherine Carton, Sylvie Saab-Puong, Razvan Iordache Serge Muller
9:20-9:40	Dose-saving Potential of Linear- and Non-linear Energy Weighting in Photon-counting Spectral Mammography Udo van Stevendaal, Hanno Homann, Ewald Roessl, Klaus Erhard, Björn Cederström
9:40-10:00	Compositional Three-component Breast Imaging of Fibroadenoma and Invasive Cancer Lesions: Pilot Study Serghei Malkov, Fred Duewer, Karla Kerlikowske, Karen Drukker, Maryellen Giger John Shepherd
10:00-10:30	**Coffee Break, 5F** Sponsored by Hologic Inc.
10:30-11:40	**Session 6: CAD** Chair: Nico Karssemeijer, Radboud University Nijmegen Medical Centre The Netherlands
10:30-11:00	**Keynote** Will New Technologies Replace Mammography CAD as We Know It? Julian Marshall, Hologic, Inc., USA
11:00-11:20	Potential Usefulness of Presentation of Histological Classifications with Computer-aided Diagnosis (CAD) Scheme in Differential Diagnosis of Clustered Microcalcifications on Mammograms Ryohei Nakayama, Kiyoshi Namba, Ryoji Watanabe, Hiroshi Nakahara, Ralph Smathers
11:20-11:40	Potential Usefulness of Breast Radiographers' Reporting as a Second Opinion for Radiologists' Reading in Digital Mammography Rie Tanaka, Miho Takamori, Yoshikazu Uchiyama, Junji Shiraishi

(continued next page)

12:00-13:00	**Luncheon Seminar 2** Clinical Benefit Using Tomosynthesis Ch Müller-Leisse, MD Mechthild Schulze-Hagen, MD Maria Hilf Mönchengladbach, Germany **Session chair** Tokiko Endo, MD National Hospital Organization Higashi Nagoya National Hospital, Japan (Supported by FUJIFILM Medical Co., Ltd.)
13:15-14:30	**Poster Session II (B01-B33) & Coffee Break, 5F** Coffee break sponsored by Varian Medical Systems
14:45-17:10	**Session 7: Tomosynthesis** Chairs: Andrew D.A. Maidment, University of Pennsylvania, USA Reyer Zwiggelaar, Aberystwyth University, UK
14:45-15:15	**Keynote** Tomosynthesis: What We Know Now and Why TMIST Is Needed Etta D. Pisano, MD, Medical University of South Carolina, USA
15:15-15:35	Effective Detective Quantum Efficiency (eDQE) Measured for a Digital Breast Tomosynthesis System Nicholas Marshall, Elena Salvagnini, Hilde Bosmans
15:35-15:55	Comparison of SNDR, NPWE Model and Human Observer Results for Spherical Densities and Microcalcifications in Real Patient Backgrounds for 2D Digital Mammography and Digital Breast Tomosynthesis Lesley Cockmartin, Nicholas Marshall, Hilde Bosmans
15:55-16:15	Assessing Radiologist Performance and Microcalcifications Visualization Using Combined 3D Rotating Mammogram (RM) and Digital Breast Tomosynthesis (DBT) Hitomi Tani, Nachiko Uchiyama, Minoru Machida, Mari Kikuchi, Yasuaki Arai Kyoichi Otsuka, Anna Jerebko, Andreas Fieselmann, Thomas Mertelmeier
16:15-16:30	**Short Break, 2F Foyer**

(continued next page)

16:30-16:50	Digital Breast Tomosynthesis: Image Quality and Dose Saving of the Synthesized Image Julia Garayoa, Irene Hernandez-Giron, Maria Castillo, Julio Valverde, Margarita Chevalier
16:50-17:10	Patient Specific Dose Calculation Using Volumetric Breast Density for Mammography and Tomosynthesis Christopher Tromans, Ralph Highnam, Oliver Morrish, Richard Black, Lorraine Tucker Fiona Gilbert, Michael Brady

Gala Dinner (19:00 - 22:00)

Gifu Miyako Hotel

(Reservation tickets are required)

Shuttle buses depart at 18:15 in front of the venue.
Return buses to Juroku Plaza are available at 21:30 and 22:00.

Special event:

十二単

Jūnihitoe **Twelve-layer ceremonial Kimono display**

In cooperation with Sohga Kimono School, President Takako Yasuda

邦楽

Hougaku **Music by Japanese Traditional Instruments**

In cooperation with Gifu University Hougaku Club

岐阜武将隊　信義徹誠　feat. Amatsukaze

Gifu Bushotai **Truth, Faith, and Loyalty**

Dance of samurai warriors with princesses

In cooperation with Team Gifu

IWDM 2014
Gala Dinner
Tuesday, 19:00 - 22:00, July 1
Venue: 岐阜都ホテル
Gifu Miyako Hotel
Special event:
十二単
Jūnihitoe Twelve-layer ceremonial Kimono display
The Jūnihitoe was only worn by women of high social standing who served in the Imperial Court. In actual fact the Kimono was reduced to five layers in subsequent years, however including undergarments it can still weigh up to 20 kilograms. Layers of fabric are piled on top of each other, with colours that reflect the season.
In cooperation with
Sohga Kimono School, President Takako Yasuda
邦楽
Hougaku Music by Japanese Traditional Instruments
In cooperation with Gifu University Hougaku Club
岐阜武将隊 信義徹誠
feat. Amatsukaze
Gifu Bushotai Truth, Faith, and Loyalty
Dance of samurai warriors with princesses
In cooperation with Team Gifu
Shuttle buses depart in front of Juroku Plaza. Return buses to Juroku Plaza are available at 21:30 and 22:00.
Dress code: Casual

Wednesday, July 2	
8:40-10:00	**Session 8: Imaging Physics II** Chair: Hilde Bosmans, University Hospitals of KU Leuven, Belgium
8:40-9:00	Comparative Performance Evaluation of Contrast-detail in Full Field Digital Mammography (FFDM) Systems Using Ideal (Hotelling) Observer Versus Automated CDMAM Analysis Ioannis Delakis, Robert Wise, Lauren Morris, Eugenia Kulama
9:00-9:20	Mammographic Density Effect on Readers' Performance and Visual Search Pattern Dana AL Mousa, Patrick C Brennan, Elaine Ryan, Claudia Mello-Thoms
9:20-9:40	Towards a Quantitative Measure of Radiographic Masking by Dense Tissue in Mammography James Mainprize, Xinying Wang, Mei Ge, Martin Yaffe
9:40-10:00	Three Dimensional Dose Distribution Comparison of Simple and Complex Acquisition Trajectories in Dedicated Breast CT - A Monte Carlo Study Jainil Shah, Steve Mann, Randolph McKinley, Martin Tornai
10:00-10:30	**Coffee Break, 5F** Sponsored by Planmed Oy
10:30-12:00	**Session 9: ICT & Image Processing** Chair: Joan Martí, University of Girona, Spain
10:30-11:00	**Keynote** Advanced Telecommunications in Breast Imaging - Streamlining Telemammography, Telepathology & Teleoncology Services to Improve Patient Care - Elizabeth A. Krupinski, PhD, University of Arizona, USA
11:00-11:20	Quantitative MRI Phenotyping of Breast Cancer across Molecular Classification Subtypes Maryellen Giger, Hui Li, Li Lan, Hiroyuki Abe, Gillian Newstead
11:20-11:40	A Novel Framework for Fat, Glandular Tissue, Pectoral Muscle and Nipple Segmentation in Full Field Digital Mammograms Xin Chen, Emmanouil Moschidis, Christopher Taylor, Susan Astley
11:40-12:00	Texture-based Breast Cancer Prediction in Full-field Digital Mammograms Using the Dual-tree Complex Wavelet Transform and Random Forest Classification Emmanouil Moschidis, Xin Chen, Christopher Taylor, Susan Astley
12:00-12:10	**Closing remarks**

Poster Session 1, 13:15-14:30

Monday, June 30

A01	Evaluation of a New Design of Contrast-detail Phantom for Mammography: CDMAM Model 4.0 Celia Strudley, Kenneth Young
A02	Threshold Target Thickness Calculated Using a Model Observer as a Quality Control Metric for Digital Mammography Aili Bloomquist, James Mainprize, Melissa Hill, Martin Yaffe
A03	Contrast-enhanced Digital Mammography Lesion Morphology and a Phantom for Performance Evaluation Melissa Hill, Aili Bloomquist, Sam Shen, James Mainprize, Ann-Katherine Carton Sylvie Saab-Puong, Serge Muller, Clarisse Dromain, Martin Yaffe
A04	Stability of Volumetric Tissue Composition Measured in Serial Screening Mammograms Katharina Holland, Michiel Kallenberg, Ritse Mann, Carla van Gils, Nico Karssemeijer
A05	Breast Density Classification Based on Volumetric Glandularity Measured by Spectral Mammography Henrik Johansson, Miriam von Tiedemann, Björn Cederström
A06	Is Volumetric Breast Density Related to Body Mass Index, Body Fat Mass, Waist-hip Ratio, Age and Ethnicity for Malaysian Women? Zakariyah Norhasnah, Kwan-Hoong Ng, Susie Lau, Kartini Rahmat, Farhana Fadzli Nur Aishah Mohd Taib
A07	Automated Volumetric Breast Density Derived by Statistical Model Approach Serghei Malkov, Amir Pasha Mahmoudzadeh, Karla Kerlikowske, John Shepherd
A08	Volumetric Breast Density and Radiographic Parameters Jennifer Khan-Perez, Elaine Harkness, Clare Mercer, Megan Bydder, Jamie Sergeant, Julie Morris Anthony Maxwell, Chatheine Rylance, Susan Astley
A09	The relationship of Volumetric Breast Density to Socio-economic Status in a Screening Population Louisa Samuels, Elaine Harkness, Susan Astley, Anthony Maxwell, Jamie Sergeant, Julie Morris Mary Wilson, Paula Stavrinos, Gareth Evans, Tony Howell, Megan Bydder
A10	Use of Volumetric Breast Density Measures for the Prediction of Weight and Body Mass Index Elizabeth Donovan, Jamie Sergeant, Elaine Harkness, Julie Morris, Mary Wilson, Yit Lim Paula Stavrinos, Anthony Howell, Gareth Evans, Caroline Boggis, Susan Astley
A11	Mammographic Density and Breast Cancer Characteristics Kathy Ren, Elaine Harkness, Caroline Boggis, Soujanya Gadde, Mary Wilson, Yit Lim Jamie Sergeant, Sigrid Whiteside, Julie Morris, Susan Astley
A12	Managing Tiled Images in Breast Density Measurements Jennifer Harvey, Olivier Alonzo, Gordon Mawdsley, Taghreed Alshafeiy, Ralph Highnam, Martin Yaffe

A13	Reliability of Breast Density Estimation in Follow-up Mammograms: Repeatability and Reproducibility of a Fully Automated Areal Percent Density Method Youngwoo Kim, Jong Hyo Kim
A14	Usefulness of a Combination DBT(Digital Breast Tomosynthesis) and Automated Volume Analysis of Dynamic Contrast-enhanced Breast (DCEB) MRI in Evaluation of Response to Neoadjuvant Chemotherapy (NAC) Nachiko Uchiyama, Takayuki Kinoshita, Takashi Hojo, Sota Asaga, Minoru Machida, Hitomi Tani Mari Kikuchi, Yasuaki Arai, Kyoichi Otsuka
A15	Clinical Efficacy of Novel Image Processing Techniques in the Framework of Filtered Back Projection (FBP) with Digital Breast Tomosynthesis (DBT) Nachiko Uchiyama, Minoru Machida, Hitomi Tani, Mari Kikuchi, Yasuaki Arai, Kyoichi Otsuka Andreas Fieselmann, Anna Jerebko, Thomas Mertelmeier
A16	Utility of "Incident Angle of the Plunging Artery" for Quantitative Evaluation of Breast Tumor Vascularity Takeshi Umemoto, Ei Ueno, Eriko Tohno, Isamu Morishima
A17	A Revisit on Correlation Between Tabar and Birads Based Risk Assessment Schemes with Full Field Digital Mammography Wenda He, Minnie Kibiro, Arne Juette, Erika Denton, Reyer Zwiggelaar
A18	Predicting Triple-negative Breast Cancer and Axillary Lymph Node Metastasis Using Diagnostic MRI Jeff Wang, Fumi Kato, Kohsuke Kudo, Hiroko Yamashita, Hiroki Shirato
A19	Understanding the Role of Correct Lesion Assessment in Radiologists' Reporting of Breast Cancer Claudia Mello-Thoms, Phuong Dung Trieu, Mohammad Rawashdeh, Kriscia Tapia, Warrick Lee Patrick Brennan
A20	Realistic Simulation of Breast Tissue Microstructure in Software Anthropomorphic Phantoms Predrag Bakic, David Pokrajac, Raffaele De Caro, Andrew Maidment
A21	A Virtual Human Breast Phantom Using Surface Meshes and Geometric Internal Structures Ann-Katherine Carton, Anthony Grisey, Pablo Milioni de Carvalho, Clarisse Dromain Serge Muller
A22	Characterisation of Screen Detected and Simulated Calcification Clusters in Digital Mammograms Lucy Warren, Louise Dummott, Matthew Wallis, Rosalind Given-Wilson, Julie Cooke David Dance, Kenneth Young
A23	Development of a Micro-simulation Model for Breast Cancer to Evaluate the Impacts of Personalized Early Detection Strategies Rasika Rajapakshe, Cynthia Araujo, Chelsea Vandenberg, Brent Parker, Stephen Smithbower Chris Baliski, Susan Ellard, Laurel Kovacic, Melanie Reed, Scott Tyldesley, Gillian Fyles Rebecca Mlikotic

A24	Modeling Vascularity in Breast Cancer and Surrounding Stroma Using Diffusion MRI and Intravoxel Incoherent Motion Colleen Bailey, Sarah Vinnicombe, Eleftheria Panagiotaki, Shelley Waugh, John Hipwell Daniel Alexander, Kathryn Kitching, Patsy Whelehan, Sarah Pinder, Andrew Evans, David Hawkes
A25	Monte Carlo Modeling of the DQE of a-Se X-ray Detectors for Breast Imaging Yuan Fang, Andreu Badal, Karim Karim, Aldo Badano
A26	kVp Tool for Digital Mammography Using Commercial Metallic Foils Héctor Galván, Yolanda Villaseñor
A27	Possibility of Exposure Dose Reduction in Contrast Enhanced Spectral Mammography Using Dual Energy Subtraction Technique : A Phantom Study Noriko Nishikawa, Kaori Yanagisawa, Kuniji Naoi, Yutaka Ohnuma, Yoshihisa Muramatsu
A28	A Protocol for Quality Control Testing for Contrast-enhanced Dual Energy Mammography Systems Jennifer Oduko, Peter Homolka, Vivienne Jones, David Whitwam
A29	Trends in Mammogram Image Quality, Dose & Screen-detected Cancer Rates in an Organized Screening Mammography Program Brent Parker, Rasika Rajapakshe, Ashley Yip, Teresa Wight, Nancy Aldoff, Janette Sam Christine Wilson
A30	Power Spectrum Analysis of an Anthropomorphic Breast Phantom Compared to Patient Data in 2D Digital Mammography and Breast Tomosynthesis Lesley Cockmartin, Predrag Bakic, Hilde Bosmans, Andrew Maidment, Hunter Gall Moustafa Zerhounim, Nicholas Marshall
A31	Contrast-enhanced Digital Mammography Image Quality Evaluation in the Clinic Melissa Hill, Aili Bloomquist, Sam Shen, James Mainprize, Ann-Katherine Carton Sylvie Saab-Puong, Serge Muller, Martin Yaffe
A32	BREAST: A Novel Strategy to Improve the Detection of Breast Cancer Patrick Brennan, Phuong Dung Trieu, Kriscia Tapia, John Ryan, Claudia Mello-Thoms Warwick Lee
A33	A Regional Web-based Automated Quality Control Platform Stephen Smithbower, Rasika Rajapakshe, Janette Sam, Nancy Aldoff, Teresa Wight
A34	A European Protocol for Technical Quality Control of Breast Tomosynthesis Systems Ruben van Engen, Hilde Bosmans, Ramona Bouwman, David Dance, Patrice Heid, Barbara Lazzari Nicholas Marshall, Stephan Schopphoven, Celia Strudley, Martin Thijssen, Kenneth Young
A35	Conventional Mammographic Image Generation Method with Increased Calcification Sensitivity Based on Dual-energy Xi Chen, Xuanqin Mou
A36	Development of Mammography System Using CdTe Photon-counting Detector for Exposure Dose Reduction - Study of Effectiveness of the Spectrum by Simulation - Naoko Niwa, Misaki Yamazaki, Sho Maruyama, Yoshie Kodera

A37	Development of Mammography System Using CdTe Photon-counting Detector for Exposure Dose Reduction - Evaluation of Image Quality in the Prototype System - Misaki Yamazaki, Naoko Niwa, Sho Maruyama, Yoshie Kodera
A38	Investigation of Dependence on the Object Orientation in Visibility-contrast Imaging with the X-ray Talbot-Lau Interferometer Takayuki Shibata, Shohei Okubo, Daiki Iwai, Junko Kiyohara, Sumiya Nagatsuka, Yoshie Kodera
A39	Development of New Imaging System Based on Grating Interferometry: Preclinical Study in Breast Imaging Tokiko Endo, Shu Ichihara, Suzuko Moritani, Mikinao Ooiwa, Misaki Shiraiwa, Takako Morita Yasuyuki Sato, Junko Kiyohara, Sumiya Nagatsuka
A40	Basic Study on the Development of a High-resolution Breast CT Atsushi Teramoto, Tomoyuki Ohno, Fumio Hashimoto, Chika Murata, Keiko Takahashi Ruriha Yoshikawa, Shoichi Suzuki, Hiroshi Fujita
A41	Analysis of Dependence of Detector Position on Detected Scatter Distribution in Dedicated Breast SPECT Steve Mann, Jainil Shah, Martin Tornai
A42	Gamma-camera for Image-guided Low-energy Breast Brachytherapy Anastasiia Mishchenko, Olivier Tousignant, Aram Teymurazyan, Ananth Ravi, Jean-Philippe Pignol John Rowlands, Alla Reznik
A43	Comparison of New Full-field Digital Mammography Systems with and without the Use of an Advanced Post-processing Algorithm Sun Mi Kim, Mijung Jang, Bo La Yun, Hye Shin Ahn, Eun Sook Ko, Boo-Kyung Han

Japanese sweet

Poster Session II, 13:15-14:30

Tuesday, July 1

B01	Evaluation of Physical and Psychological Burden of Subjects in Mammography Yongbum Lee, Mieko Uchiyama
B02	Mammographic Image Database (MIDB) and Associated Web-enabled Software for Research Mark Halling-Brown, Pádraig Looney, Mishal Patel, Lucy Warren, Alistair Mackenzie, Kenneth Young
B03	Optimizing High Resolution Reconstruction in Digital Breast Tomosynthesis Using Filtered Back Projection Shiras Abdurahman, Frank Dennerlein, Anna Jerebko, Andreas Fieselmann, Thomas Mertelmeier
B04	The Investigation of Different Factors to Optimize the Simulation of 3D Mass Models in Breast Tomosynthesis Eman Shaheen, Frédéric Bemelmans, Chantal van Ongeval, Frederik De Keyzer Nausikaä Geeraert, Hilde Bosmans
B05	Clinical Evaluation of Dual Mode Tomosynthesis Tokiko Endo, Mikinao Ooiwa, Takako Morita, Namiko Suda, Kazuaki Yoshikawa, Misaki Shiraiwa, Yukie Hayashi, Takao Horiba, Yasuyuki Sato, Syu Ichihara, Tomonari Sendai, Tetsuro Kusunoki Takahisa Arai
B06	Image Quality of Thick Average Intensity Pixel Slabs Using Statistical Artifact Reduction in Breast Tomosynthesis Magnus Dustler, Pontus Timberg, Anders Tingberg, Sophia Zackrisson
B07	Detection of Spiculated Lesions in Digital Mammograms Using a Novel Image Analysis Technique Ashley Seepujak, Tomas Adomavicius, Sergey Dolgobrodov, Emmanouil Moschidis, Xin Chen Anthony Maxwell, Susan Astley, Alan Roseman
B08	Spatial Correlation Analysis of Mammograms for Detection of Asymmetric Findings Paola Casti, Arianna Mencattini, Marcello Salmeri, Rangaraj Rangayyan
B09	Temporal Breast Cancer Risk Assessment based on Higher-order Textons Xi-Zhao Li, Simon Williams, Peter Downey, Murk Bottema
B10	Invariant Features for Discriminating Cysts from Solid Lesions in Mammography Thijs Kooi, Nico Karssemeijer
B11	Breast Masses Identification through Pixel-based Texture Classification Jordina Torrents Barrena, Domenec Puig, Maria Ferre, Jaime Melendez, Lorena Diez-Presa Meritxell Arenas, Joan Martí
B12	Automated Labeling of Screening Mammograms with Arterial Calcifications Jan-Jurre Mordang, Jakob Hauth, Gerard den Heeten, Nico Karssemeijer
B13	False Positive Reduction in CADe Using Diffusing Scale Space Faraz Janan, Sir Michael Brady, Ralph Highnam

B14	Automated Detection of Architectural Distortion Using Improved Adaptive Gabor Filter Ruriha Yoshikawa, Atsushi Teramoto, Tomoko Matsubara, Hiroshi Fujita
B15	Detecting Abnormal Mammographic Cases in Temporal Studies Using Image Registration Features Robert Martí, Yago Díez, Arnau Oliver, Meritxell Tortajada, Reyer Zwiggelaar, Xavier Lladó
B16	Analysis of Mammographic Microcalcification Clusters Using Topological Features Zhili Chen, Harry Strange, Erika Denton, Reyer Zwiggelaar
B17	Differentiation of Malignant and Benign Masses on Mammograms Using Radial Local Ternary Pattern Chisako Muramatsu, Min Zhang, Takeshi Hara, Tokiko Endo, Hiroshi Fujita
B18	Statistical Temporal Changes for Breast Cancer Detection: A Preliminary Study Gobert Lee, Mariusz Bajger
B19	Comparison of Calcification Cluster Detection by CAD and Human Observers at Different Image Quality Levels Pádraig Looney, Lucy Warren, Susan Astley, Kenneth Young
B20	A Novel Image Enhancement Methodology For Full Field Digital Mammography Wenda He, Minnie Kibiro, Arne Juette, Erika Denton, Peter Hogg, Reyer Zwiggelaar
B21	Correlation Between Topological Descriptors of the Breast Ductal Network from Clinical Galactograms and Texture Features of Corresponding Mammograms Predrag Bakic, David Pokrajac, Mathew Thomas, Angeliki Skoura, Tatyana Nuzhnaya Vasileios Megalooikonomou, Brad Keller, Yuanjie Zheng, Despina Kontos, James Gee Gilda Cardenosa, Andrew Maidment
B22	Breast Volume Measurement Using a Games Console Input Device Stefanie Pöhlmann, Jeremy Hewes, Andrew Williamson, Jamie Sergeant, Alan Hufton Ashu Gandhi, Christopher Taylor, Susan Astley
B23	Towards Spatial Correspondence between Specimen and In-vivo Breast Imaging Thomy Mertzanidou, John Hipwell, Mehmet Dalmis, Bram Platel, Jeroen van der Laak, Ritse Mann Nico Karssemeijer, Peter Bult, David Hawkes
B24	SIFT Texture Description for Understanding Breast Ultrasound Images Joan Massich, Fabrice Meriaudeau, Melcior Sentís, Sergi Ganau, Elsa Pérez, Domènec Puig Robert Martí, Arnau Oliver, Joan Martí
B25	Comparison of Methods for Current-to-prior Registration of Breast DCE-MRI Yago Díez, Albert Gubern-Mérida, Lei Wang, Susanne Diekmann, Joan Martí, Bram Platel Johanna Kramme, Robert Martí
B26	A Study on Mammographic Image Modeling and Classification Using Multiple Databases Wenda He, Erika Denton, Reyer Zwiggelaar
B27	Quasi-3D Display of Lesion Locations Simulated by Two Views of Digital Mammography Yu Narita, Noritaka Higashi, Yoshikazu Uchiyama, Junji Shiraishi

B28	A Shearlet-based Filter for Low-dose Mammography Huiqin Jiang, Yunyi Zhang, Ling Ma, Xiaopeng Yang, Yumin Liu
B29	Evaluation of Human Contrast Sensitivity Functions Used in the Nonprewhitening Model Observer with Eye Filter Ramona Bouwman, Ruben van Engen, David Dance, Kenneth Young, Wouter Veldkamp
B30	It Is Hard to See a Needle in a Haystack: Modeling Contrast Masking Effect in a Numerical Observer Ali Avanaki, Kathryn Espig, Albert Xthona, Tom Kimpe, Predrag Bakic, Andrew Maidment
B31	Mammography: Radiologist and Image Characteristics That Determine the Accuracy of Breast Cancer Diagnosis Mohammad Rawashdeh, Claudia Mello-Thoms, Roger Bourne, Patrick Brennan
B32	Preliminary Study on Sub-pixel Rendering for Mammography Medical Grade Color Displays Katsuhiro Ichikawa, Hiroko Kawashima
B33	Impact of Color Calibration on Breast Biopsy Whole Slide Image Interpretation Accuracy & Efficiency Elizabeth Krupinski, Louis Silverstein, Syed Hashmi, Anna Graham, Ronald Weinstein, Hans Roehrig

Dance of dressing in a Kimono

Registration

	Until Apr. 3	Apr. 4 to Apr. 25	Apr. 26 to Jun. 15	After Jun. 16
Presenter	70,000	N/A	N/A	N/A
Full-time student presenter	35,000	N/A	N/A	N/A
General	70,000	70,000	80,000	90,000
Full-time student	35,000	35,000	45,000	50,000
Accompanying Person				
>= age 16	10,000	10,000	10,000	10,000
under age 16	0	0	0	0

(All fees are in Japanese Yen)

The registration includes:

+Breakfast is NOT served at the conference venue.
+Admission to oral sessions/poster session*/technical exhibits*, one copy of proceedings, a conference bag, admission to the welcome reception (Sunday night)*, admission to the gala dinner (Tuesday night)*, coffee breaks*, and luncheon seminars (Monday and Tuesday).

** Accompanying person*

Registration rules:

+All attendees are required to register.
+Each presentation (Oral/Poster) must have at least one person (non-refundable) registered by April 3, 2014.
+Student ID will be checked at the registration desk.
+As of April 4, unregistered papers will be withdrawn from the proceeding book and the assigned sessions automatically. No extensions are permitted because of the tight schedule for publishing the proceeding book.

Access hotel information, maps, registration manual and useful links here:

http://www.fjt.info.gifu-u.ac.jp/iwdm2014/IWDM2014RegistrationSupport.pdf

Cancellation Policy:

In case of cancellation, your registration fee will be refunded after deducting the cancellation fees as shown below.
(The bank transfer fee shall be borne by the participants.)
Please note all refunds will be made after the Conference / Symposium.
Please revise and/or cancel your registration by logging-in to your "My Page".

	Until May 31, 2014	After May 31, 2014
All	**10,000** *	**No refund**
Accompanying person (>=16)	**3,000/per person** **	**No refund**

(All fees are in Japanese yen)

* To avoid a situation where there are papers to be presented but no registered presenter, the cancellation process may be restricted by the registration status of co-authors after April 4, 2014. The presenting papers will be removed from the program list and proceedings unless other co-author registers by April 3, 2014.

** If you have registered on behalf of a group, and you cancel your portion only, a handling fee will be charged. If you do not pay this handling fee, the registration of the other people in your group will also be canceled when the original registration is canceled. Any registration of additional accompanying persons after the initial registration must be carried out at the venue.

We are afraid that as part of our cancellation policy a fee of 10,000 yen will be charged until May 31, 2014.
If you would like to cancel accompanying person(s) over 16 yrs old until May 31, 2014, please contact JTB office staff directly at convention@cub.jtb.jp.
We will adjust and refund you 7,000 yen manually.
(Cancellation fee: 3,000 yen for accompanying person(s) until May 31, 2014)

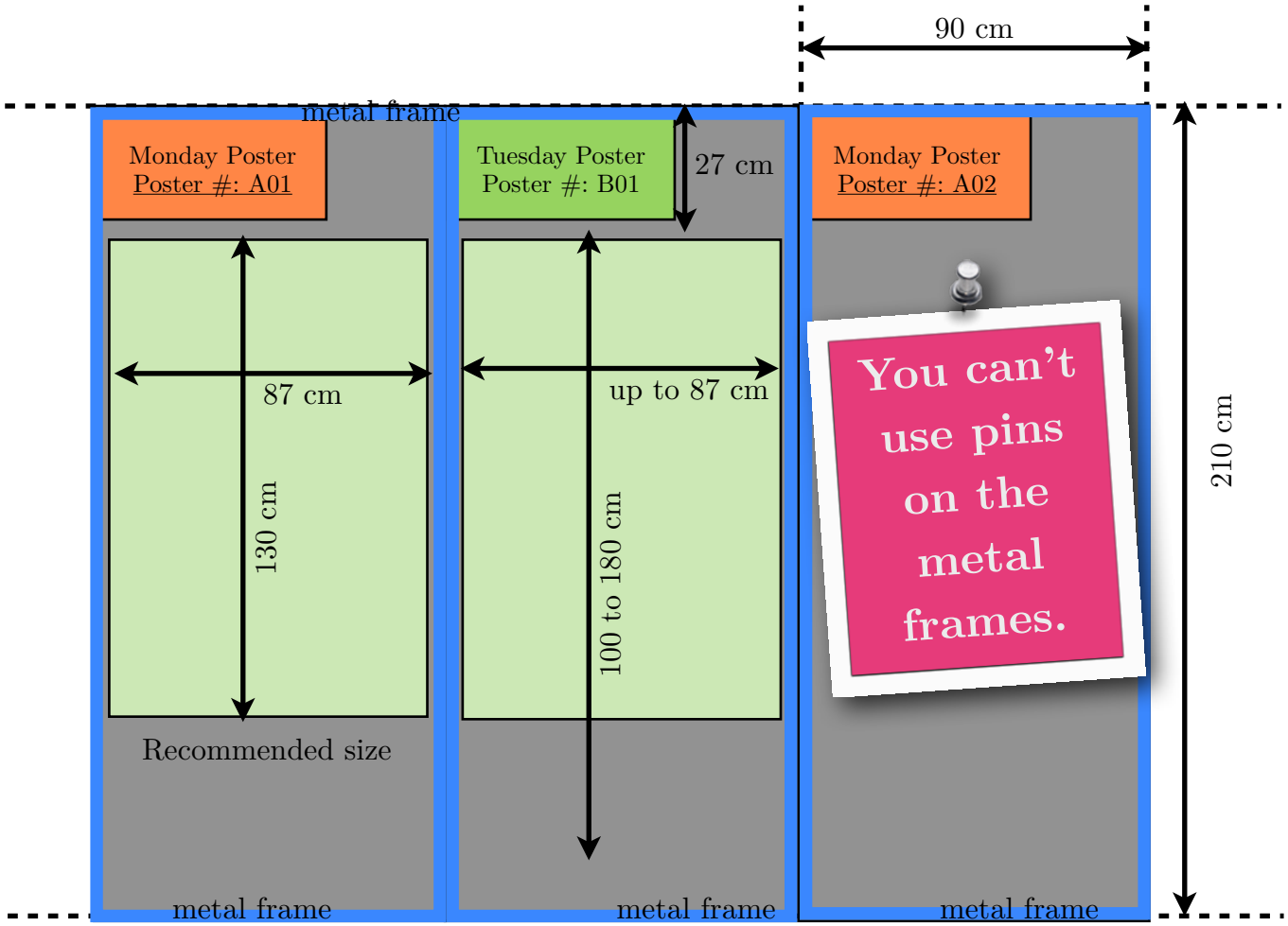
If the conference is cancelled for reasons beyond the control of the organizers, the registration fee will be refunded after expenses incurred by the Conference have been deduced.

NOTE: The conference registration and the accommodation fees will be processed as one transaction only if you request them at the same time. If you need to process the accommodation and conference registration fees as separate transaction, please initially complete the conference registration payment ONLY, and return to the site at a later date to book hotels.

Poster Presentation:

Poster Session I: A01 to A43, Poster Session II: B01 to B33.

Poster presenter must spend the presentation hours during the designed session.
Poster area: 87 cm (width) and 180 cm (height).
Recommended size: W:87 cm x H:130 cm (1:1.5).
Pins are available in the poster room.



Hotel guide (Gifu, Downtown)

#1: Dormy-Inn, Gifu. Small **ONSEN (hot-spring)** and sauna, free internet.
#2: Comfort hotel, Gifu. **NO Onsen**. Free internet and breakfast.
#3: Hotel Resol Gifu. **NO Onsen**. Maybe free internet.
#4: Daiwa Roynet hotel Gifu. **NO Onsen**. Free internet. Next to McDonald.
#5: Gifu Castle-inn. **NO Onsen**. No Pre-paid internet. Small rooms. Next to McDo.
#6: Gifu Washington Hotel Plaza. **NO Onsen**. Free internet. Small rooms.

Almost of the rooms shown as "Single" / "Double" are less than 15m² (160SQF).
Twin-room is recommended for large baggage space.
Spaciousness and fee: #4 > #3 > #1 > #2 > #5 = #6

Hotel guide (Gifu, Riverside)

App. 20-min (2500JPY) to/from Gifu station/IWDM venue by Taxi (recommended).
#7: Gifu Miyako Hotel. **NO Onsen**. Spacious western style rooms. Gala night venue.
#8: Ju-hachi Rou, Hotel. **Onsen**. Japanese TATAMI rooms. Historic area in Gifu.
#9: Hotel Park. **Onsen**. Japanese TATAMI or western rooms.
#10: Gifu Grand Hotel. **Onsen**. Japanese TATAMI or western rooms.

Room spaciousness: #7
Economic: #9
Fee: #10 > #7 = #8 > #9

Japanese traditional style: #8
Scenery: #10>#7=#8>#9

Gifu Area guide

Riverside area

Taxi fare:
600JPY, first 1300m
80JPY per additional 248m

15 to 25 minutes by taxi
(4 - 5 km)

Downtown area

Venue

GIFU stations
JR/Meitetsu line
(Railway station)

Railways from/to Nagoya

Excursions:

http://www.fjt.info.gifu-u.ac.jp/iwdm2014/travel.html

Kyoto:
Local train: 2-hr, 1,890JPY*
Shinkansen: 80-min, 6,060JPY*
(Gifu-Nagoya-Kyoto)

Takayama:
Express train: 2-hr, 4,810JPY*

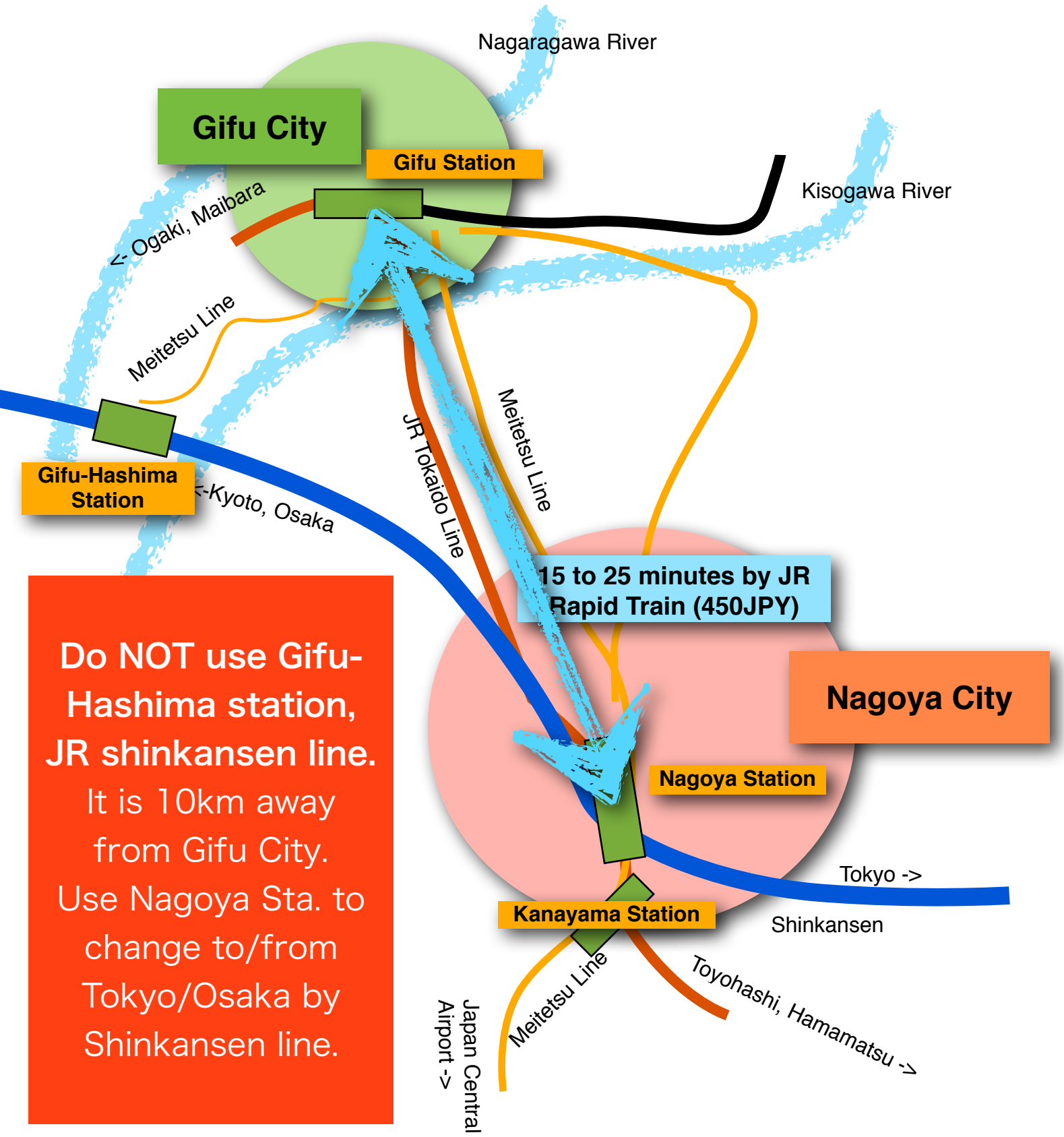
Shirawaka:
Bus: 3-hr, 3,090JPY*,**
(reservation & transfer required)

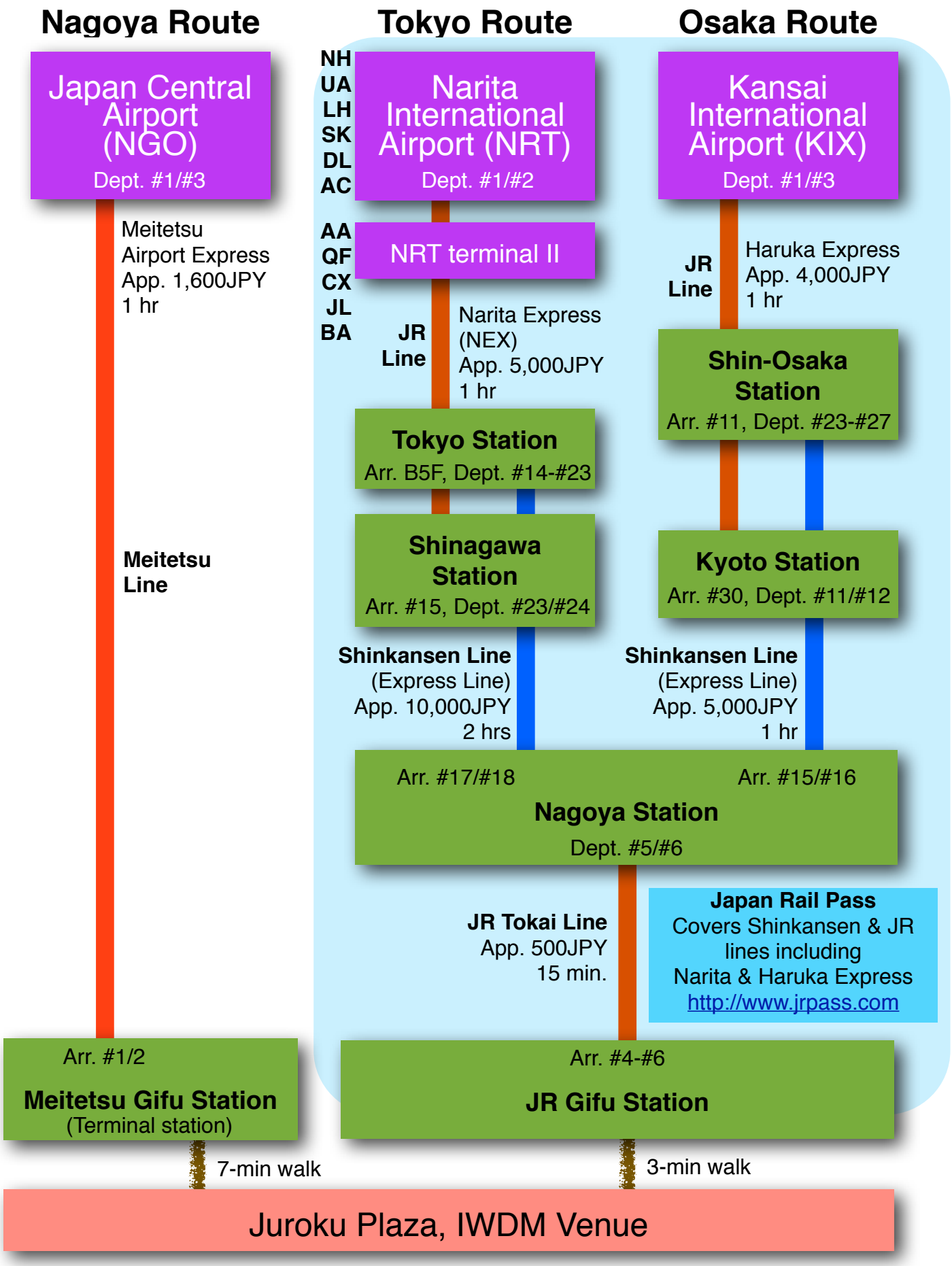
*Regular fare without discount
** Invalid for Japan Rail Pass

To train lover:

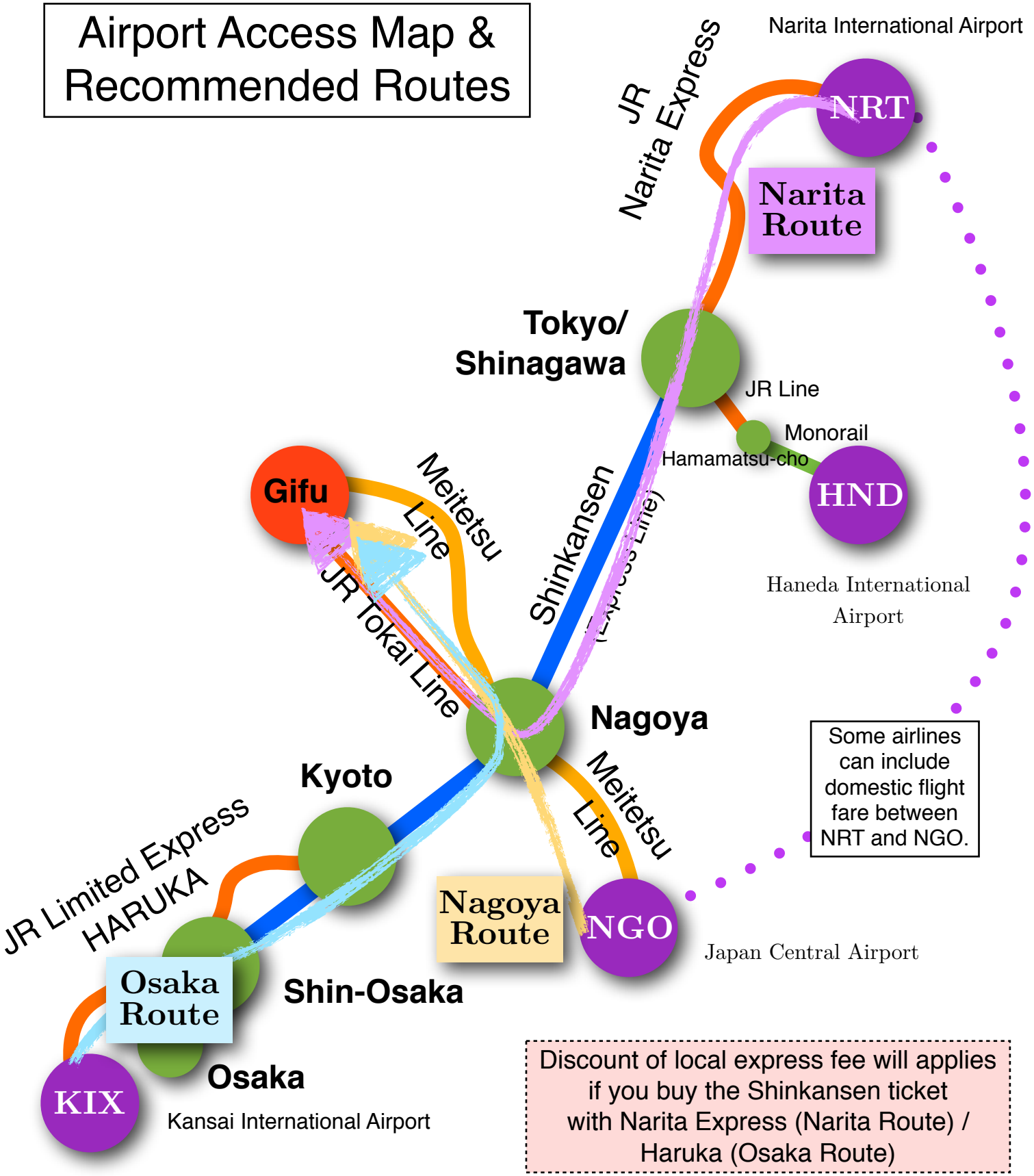
Check **Japan Rail Pass**
http://www.japan-rail-pass.com

Gifu-Nagoya, Regional area guide




Nagoya Route
Tokyo Route
Osaka Route
Japan Central Airport (NGO)
Dept. #1/#3
NH UA LH SK DL AC
Narita International Airport (NRT)
Dept. #1/#2
Kansai International Airport (KIX)
Dept. #1/#3
AA QF CX JL BA
NRT terminal II
Meitetsu Airport Express
App. 1,600JPY
1 hr
JR Line
Narita Express (NEX)
App. 5,000JPY
1 hr
JR Line
Haruka Express
App. 4,000JPY
1 hr
Shin-Osaka Station
Arr. #11, Dept. #23-#27
Tokyo Station
Arr. B5F, Dept. #14-#23
Meitetsu Line
Shinagawa Station
Arr. #15, Dept. #23/#24
Kyoto Station
Arr. #30, Dept. #11/#12
Shinkansen Line
(Express Line)
App. 10,000JPY
2 hrs
Shinkansen Line
(Express Line)
App. 5,000JPY
1 hr
Arr. #17/#18
Arr. #15/#16
Nagoya Station
Dept. #5/#6
JR Tokai Line
App. 500JPY
15 min.
Japan Rail Pass
Covers Shinkansen & JR lines including Narita & Haruka Express
http://www.jrpass.com
Arr. #1/2
Meitetsu Gifu Station
(Terminal station)
Arr. #4-#6
JR Gifu Station
7-min walk
3-min walk
Juroku Plaza, IWDM Venue

Airport Access Map & Recommended Routes



From	To	Narita Route	Fare
Narita Airport	Tokyo*	JR Narita Express Train (NEX). Depart at B1F. Arrives at B5F. 20-min requires to Shinkansen.	Express Fee 1,700JPY
Tokyo*	Nagoya	Shinkansen (Super Express). Depart at Tracks #14 to #23. Arrives at Tracks #17 or #18. 10-min requires to JR Local Line.	Express Fee 4,830JPY
Nagoya	Gifu	JR Local Line. Depart at Track #5 or #6. Most of the trains are for Maibara/ Ogaki/Gifu. All trains stop at Gifu Station. Total: 3.5h.	**Total 14,290JPY**

* You can use Shinagawa Station. NEX arrives at Track #15. Shinkansen departs at Track #23 or #24. It is good connection to Shinkansen Line (5-10 min). The Narita Express stops at Tokyo and Shinagawa stations. The stoppage time of Shinkansen is a few minute at Shinagawa Station.

From	To	Nagoya Route	Fare
Central Japan International Airport (NGO)	Meitetsu Gifu	The Airport Limited Express train, Mu-Sky or Express train. Depart at Track #1 or #3. Use ONLY the trains for Gifu. The terminal is Meitetsu Gifu Station. Additional fee of 360 yen for seat reservation is required. Total: 1h.	Express Fee 360JPY **Total 1,700JPY**

From	To	Osaka Route	Fare
Kansai International Airport (KIX)	Shin-Osaka	JR Limited Express Haruka. Depart at Track #3 or #4. Arrives at Track #11. 15-min requires to Shinkansen.	Express Fee 740JPY
Shin-Osaka	Nagoya	Shinkansen (Super Express). Depart at Tracks #23 to #27. Most of the Shinkansen trains are for Tokyo. Arrives at Track #15 or #16. 10-min requires to JR Local Line.	Express Fee 3,210JPY
Nagoya	Gifu	JR Local Line. Depart at Track #5 or #6. Most of the trains are for Maibara/ Ogaki/Gifu. All trains stop at Gifu Station. Total: 2.5h.	**Total 8,920JPY**

IWDM 2014: Nagoya Area Guide

Traditional spot:

#1 Nagoya Castle
Rebuilt castle after the WW2.
Meijo Koen station (subway), Meijyo Line from Sakae or Hisaya-odori station.

Shopping:

#2 Bic Camera (Cameras, Beauty, Visual/Audio, Games, PC, Home Appliance)
Discount shop for electronics devices.
3-min walk from Nagoya Station, West exit.

#3 JR Takashimaya (Department store)
Japanese famous department. Many restaurants and shops for sweets.
0.5-min walk from Nagoya Station Gates.

#4 Meitetsu Department store
1-min walk from Nagoya Station Gates.

#9 Maruei Department store
Local traditional department. Many daily foods and snacks.
Sakae station (subway), Higashiyama Line from Nagoya Station.

Music:

#5 Hard Rock Cafe, Nagoya
Fushimi station (subway), Higashiyama Line from Nagoya Station.

#6 BlueNote, Nagoya
World famous live spots. Check schedules and tickets.
Sakae station (subway), Higashiyama Line from Nagoya Station.

#7 Jazz in Lovely
Local famous Jazz live house.
Sakae station (subway), Higashiyama Line from Nagoya Station.

Museum:

#8 Aichi Prefectural Museum
Sakae station (subway), Higashiyama Line from Nagoya Station.

#10 JR Central Railway Museum
Aonami Line from Nagoya Station.

#11 Nagoya Boston Museum
Kanayama Station, JR and Meitetsu Lines.

#12 Nagoya Public Aquarium
Meiko Line (subway) from Kanayama Station.

Proceedings of 12th International Workshop on Breast Imaging IWDM 2014

Gifu City, Japan, June 29 - July 2, 2014

Lecture Notes in Computer Science
LNCS 8539

Hiroshi Fujita
Takeshi Hara
Chisako Muramatsu (Eds.)

http://www.springer.com/computer/image+processing/book/978-3-319-07886-1

This book constitutes the refereed proceedings of the 12th International Workshop on Breast Imaging, IWDM 2014, held in Gifu City, Japan, in June/July 2014. The 24 revised full papers and 73 revised poster papers presented together with 6 invited talks were carefully reviewed and selected from 122 submissions. The papers are organized in topical sections on screening outcomes, ultrasound, breast density, imaging physics, CAD, tomosynthesis and ICT and image processing.

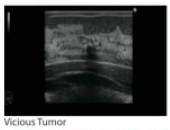
PHANTOMS FOR BREAST IMAGING

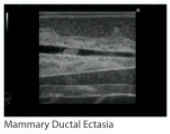
KYOTO KAGAKU co.,LTD
• e-mail
rw-kyoto@kyotokagaku.co.jp
• URL
http://www.kyotokagaku.com
• Head Office and Factories
〒612-8388 京都市伏見区北寝小屋町15番地
TEL. 075-75-605-2510 FAX. 075-605-2519
15Kitanekoya-cho, Fushimi-ku, Kyoto, 612-8388, JAPAN
TEL. +81-75-605-2510 FAX. +81-75-605-2519

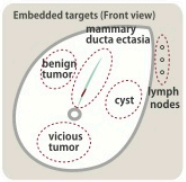
BREAST FAN

US-6

Breast Ultrasound Examination Phantom


Vicious Tumor


Mammary Ductal Ectasia



Training Skills

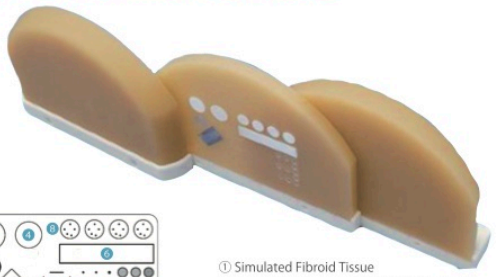
- Visualization of typical pathologies
- Localization and measurement of cysts and tumors

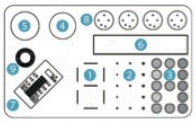
The BREASTFAN is a unique phantom for training in basic breast ultrasound examination. Simulated targets with different echogenicities are embedded in the phantoms mammary gland.

Digital Quality Control Phantom

PH-13

for X-ray Mammography Image



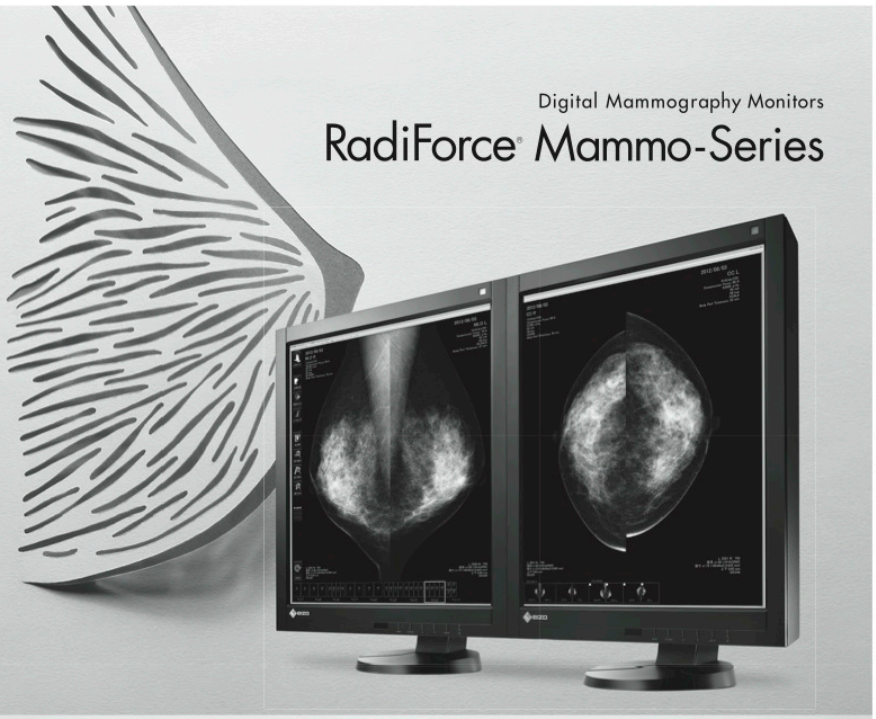


① Simulated Fibroid Tissue
② Simulated Calcifications(Aluminum Oxide)
③ Simulated Lump
④ Image Granularity Check Disk
⑤
⑥ Contrast Evaluation
⑦ Contrast Transfer Function
⑧ Contrast Disk Including Simulated Calcifications (300 μ Aluminum oxide)
⑨ Aluminum Ring: Frequency enhancement check

Digital Mammography Phantom provides comprehensive visual evaluation with one exposure. Also produce an overall source for quality control by quantifying the evaluation result.

EIZO

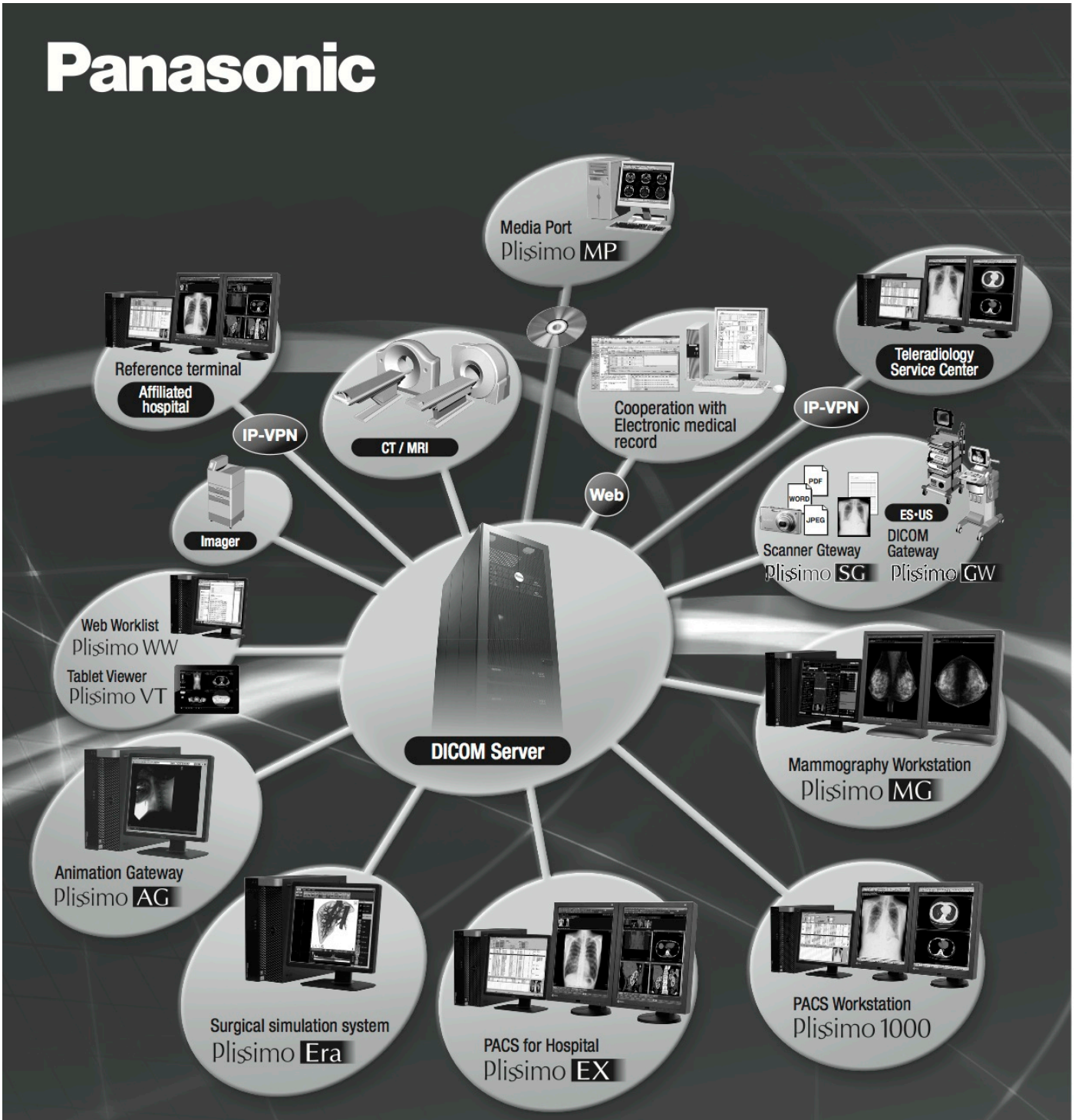
Digital Mammography Monitors
RadiForce® Mammo-Series



extracting the essence.

EIZO Corporation Phone +81-76-277-6792 Fax +81-76-277-6793 www.eizo.com

Panasonic



Experience Panasonic's PACS solutions Plissimo

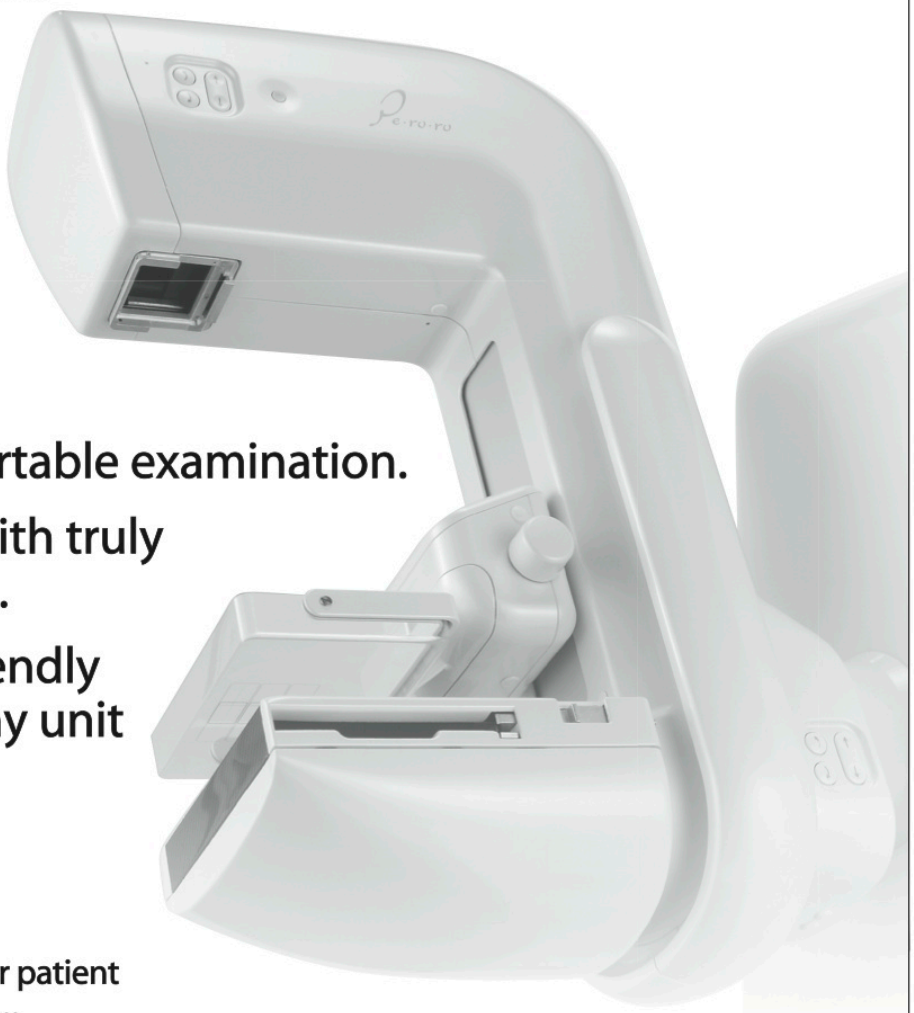
Get PACS solutions and telediagnostic solutions that suits your demand

Panasonic Medical Solutions Co.,Ltd. panasonic.co.jp/hcc/phc/phcms

1-15 Matsuo-cho, Kadoma City, Osaka 571-8504, Japan Tel:+81-6-6905-4161 FAX:+81-6-6905-8359
Hamamatsu-cho Bldg., 1-17-14 Hamamatsu-cho, Minato-ku, Tokyo 105-0013, Japan Tel:+81-3-6403-3019 FAX:+81-3-3438-5045
Mail : plissimo@gg.jp.panasonic.com

TOSHIBA

Leading Innovation »»»



For the comfortable examination.

For women, with truly feminine form.

A true user friendly mammography unit is introduced.

Advanced features for patient

- Truly patient friendly form
- Comfortable and smooth touch
- Pain free from high pressure compression

MGU-1000A

Advanced features for clinicians

- Easy positioning
- Optional compression plate for variety of breast size
- Display panel for easy workflow

Enrich Women's Health

Made for Life™

TOSHIBA MEDICAL SYSTEMS CORPORATION
http://www.toshibamedicalsystems.com

Climb Medical Systems Inc.

Reliability of high quality mammography

- DICOM sending function at slice level of tomosynthesis images
- Reporting system integrated mammography and ultrasound
- 15MsP Super-High resolution with the ISD technology

Climb®

www.climb-ms.com

Senri Life Science Center Bldg. 10F
1-4-2 Shinsenri Higashimachi, Toyonaka City
Osaka, JAPAN 560-0082
e-mail: info@climb-ms.com

Trade name: Climb-Mammo Viewer
Approved No.：21700BZZ00359000
Climb® is a registered trade-mark of Climb Medical Systems Inc.

More clarity. More confidence. Less dose.

SenoClaire* 3D Breast Tomosynthesis

With GE SenoClaire, powered by ASiR^{DBT} a single MLO view provides clinical non-inferiority compared to 2-view digital mammography—at half the dose and with just one compression. That means SenoClaire has the potential to replace digital mammography exams in screening to help you detect breast cancer.

SenoClaire delivers superior sensitivity for architectural distortions and masses, improves specificity of lesion margin visibility, and helps you better characterize malignant and benign findings. In addition, SenoClaire images are compatible with major PACS systems, so you can integrate them easily into your environment to get the most from your investment.

SenoClaire. Enhancing your clinical confidence—with the same dose as digital mammography of the same view.

To learn more,
www.gehealthcare.com/senoclaire

GE imagination at work

GE190-004 BIE (Blinded Imaging Evaluation) study – US. A Multicenter Study to Test the Non-Inferiority of Digital Breast Tomosynthesis Compared to FFDM in Detecting Breast Cancer.
© 2013 General Electric Company – All rights reserved. *GE, GE monogram, SenoClaire and ASiR are trademarks of General Electric Company.
HCS DGS WH BC 06 16 1 DOC1407658.

MicroDose SI – revolutionizing mammography with non-invasive spectral imaging.

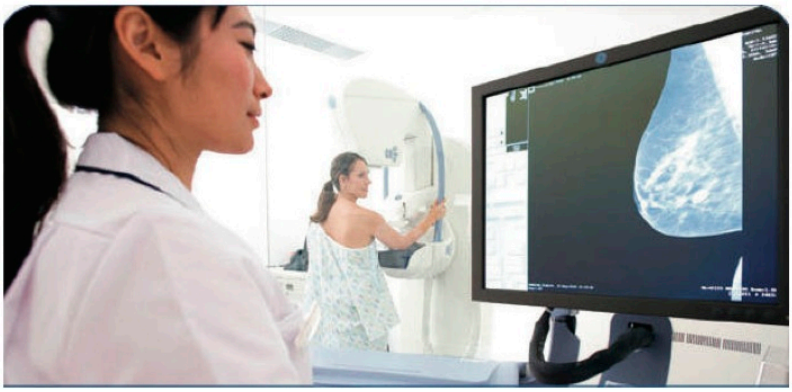
At Philips, we're working closely with clinical partners to provide better, more personalized care for women. As part of this commitment, and our Imaging 2.0 philosophy, we are unveiling our new MicroDose SI – the first full-field digital mammography system that supports single-shot, non-invasive spectral imaging. Our unique Spectral Breast Density Measurement application is designed to help you efficiently and objectively measure breast density, a leading risk factor for breast cancer. It delivers new spectral insights in ONE fast, comfortable, low-dose mammogram – without injecting contrast agents. By focusing on the patient, we are transforming care, one small dose at a time. Learn more at **www.philips.com/MicroDoseSI.**

PHILIPS

Digital Mammography

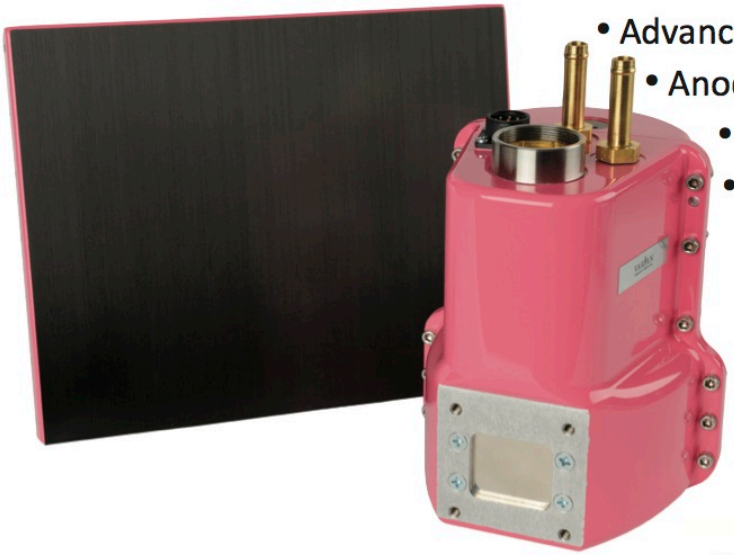
PaxScan 3024M (FFDM) Flat Panel Detector

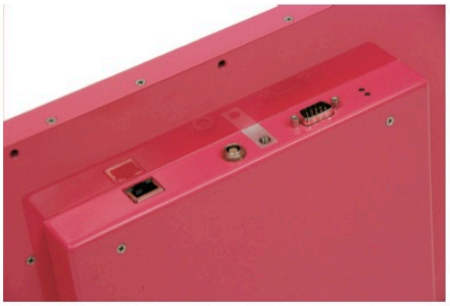
- High resolution 83 µm pixel matrix
- Low dose, high fill factor design
- Environmentally stable amorphous silicon (aSi)
- Variable frame rate for advanced applications
- Thin edge for chest wall imaging



M-1580 Mammography X-Ray Tube

- Advanced mammography applications
- Anode Grounded
- Space efficient
- Ultra high performance





PAXSCAN®

Varian Medical Systems
6F METLIFE Kabutocho Bldg.
51- Nihonbashi, Kabutocho
Chuo-ku, Tokyo 103 0026 Japan
(81) 3448605070

The standard of care for digital mammography & tomosynthesis

Highest brightness, Greater detection, Better outcomes

- High-speed scrolling & cineing without blur
- Superb luminance for many years
- Extra brightness at the touch of a button
- Perfect image quality without disturbing screen noise
- DICOM compliance under all lighting conditions
- Worry-free Quality Assurance
- Standard 5-year warranty

Mammo Tomosynthesis 5MP

Barco Co., Ltd.
Yamato International Bldg. 8F, 5-1-1, Heiwajima, Ota-ku, Tokyo 143-0006 Tel. +81-3-5762-8715 Fax +81-3-5762-8711
Tanimachi 333 Bldg. 7F, 2-7-4, Tanimachi, Chuo-ku, Osaka 540-0012 Tel. +81-6-6943-8998 Fax +81-6-6943-8997

BARCO
Visibly yours

www.barcohealthcare.jp