

【Joint Sessions for Japan Radiology Congress】

Honorary Member Award Ceremony

- Honorary Member Award Ceremony: April 16 (Fri.) 13:30–13:50 (National Convention Hall)

Opening Ceremony

- Opening Ceremony: April 16 (Fri.) 13:50–14:45 (National Convention Hall)

Keynote Lecture

- President: Noriyuki Tomiyama (Osaka University)
The 80th Annual Meeting of the Japan Radiological Society (JRS)
- President: Hiroko Nishide (Gifu University of Medical Sciences)
The 77th Annual Meeting of the Japanese Society of Radiological Technology (JSRT)
- President: Nobuyuki Kanematsu (NIRS, QST)
The 121st Scientific Meeting of the Japan Society of Medical Physics (JSMP)
- Chairman: Akio Yamamoto
Japan Medical Imaging and Radiological Systems Industries Association (JIRA)

Joint Special Lecture

- Joint Special Lecture: April 16 (Fri.) 14:45–15:30 (National Convention Hall)

Moderator: Osaka University Noriyuki Tomiyama
Accelerating Social Change Through Digitalization
Founder, Chairman and CEO, Rakuten, Inc. Mickey Mikitani (Hiroshi Mikitani)

Joint Symposium

- Joint Symposium 1: April 16 (Fri.) 16:00–18:00 (National Convention Hall)

「Approaching the Whole Aspect of the New Coronavirus Infection (COVID-19)」

- Moderator: University of the Ryukyus Sadayuki Murayama
Nagasaki University Kazuto Ashizawa
1. The Basic Measures of Infection Control for COVID-19
Osaka University Hospital Kazunori Tomono
2. Imaging Diagnosis of Coronavirus Disease 2019 (COVID-19)
The University of Tokyo Shohei Inui
3. Forefront of AI Applications for COVID-19 Imaging Diagnosis
Kyushu University Hidetaka Arimura
4. Infection Prevention and Control Measure for COVID-19 in Radiology Department
St. Lukes International Hospital Daisuke Unai
5. COVID-19 Pandemic: The American Experience Stanford University, USA Ann Noi Chi Leung

- Joint Symposium 2: April 17 (Sat.) 10:00–12:00 (National Convention Hall)

〔Evolution in Mammographic Systems and Images〕

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| | Moderator: Tohoku University Hospital | Masahiro Sai |
| | Japan Health Care College | Kunio Kurowarabi |
| 1. Transition of the Mammographic Diagnosis | Higashinagoya National Hospital | Tokiko Endo |
| 2. Milestones of Mammography System - X-ray Equipment - | | |
| | Tokyo Metropolitan University | Toru Negishi |
| 3. Evolution of the Mammographic Imaging System | | |
| | Gifu University of Medical Science | Hiroko Nishide |
| 4. Demand for Mammography Technology | St.Luke's International Hospital | Tomomi Koyama |
| 5. Air-kerma Standard for Mammography X-ray in Japan~Progress and Prospects~ | | |
| | National Institute of Advanced Industrial Science and Technology (AIST) | Takahiro Tanaka |

- Joint Symposium 3: April 17 (Sat.) 13:30-15:40 (National Convention Hall)

〔Radiological Technologies from Japan - Past and Future -〕

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| | Moderator: Hiroshima University | Kazuo Awai |
| | Osaka General Medical Center | Kazuyuki Kashiya |
| | University of Tsukuba | Takeji Sakae |
| 1. Efficacy of 320-row IVR-ADCT | Shizuoka Cancer Center | Takeshi Aramaki |
| 2. The History of CT Technologies from Japan That Work in the World and Future | | |
| | Canon Medical Systems Corporation | Hisashi Tachizaki |
| 3. Genesis of Computed Radiography System. -What is Born between Imagination and Creativity- | | |
| | Morinomiya University of Medical Sciences | Masao Funahashi |
| 4. A Challenge of Digitalizing the X-ray Film Image, and the Recent Technical Trends. | | |
| | FUJIFILM Corporation | Masahiko Yamada |
| 5. Current Status of Accelerator-based Boron Neutron Capture Therapy (BNCT) | | |
| | Kyoto University | Hiroki Tanaka |
| 6. Charged Particle Therapy: Technology from Japan | NIRS, QST | Toshiyuki Shirai |

Joint Public Lecture

- 10 Years after the Fukushima: April 18 (Sun.) 15:30-18:00 (National Convention Hall)

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| | Moderator: International University of Health and Welfare Narita Hospital | Takayuki Igarashi |
| | NTT Medical Center Tokyo | Atsuko Tsukamoto |
| 1. Lessons Learned from the History - Prepare for a Nuclear Accident/Disaster - | | |
| | Futaba Medical Center, Fukushima Prefecture | Koichi Tanigawa |
| 2. Risk of Low-dose Radiation Exposure in Fukushima | Saito Yukoukai Hospital | Hironobu Nakamura |
| 3. The Role of the Japanese Society of Radiological Technology and Radiological Technologists for a Radiation Disaster: What Should We Do? | Fukushima Medical University | Takashi Ohba |
| 4. Were the Assessments Made by the World Experts Correct? | | |
| | Research Institute for Radiation Biology and Medicine | Hiroshi Yasuda |
| 5. Radiological Nursing for Improving the Well-being of All People: 10 Years After the Fukushima | | |

JRS · JSRT · JSMP Joint Project (Cooperation MII and JAMIT) Artificial Intelligence Hands-on Seminar

April 15 (Thu.) 13:30–17:00 (315)

April 16 (Fri.) 8:00–11:30 (315)

April 17 (Sat.) 8:00–11:30 (315)

1. Beginning Image Classification, Regression, Segmentation, Anomaly Detection and Generation Based on Deep Learning Method Using Python (Non-programming course for beginners)

Director, Instructor, Assistant: Gifu University Takeshi Hara

Niigata University Yongbum Lee

Gifu University of Medical Science Norimitsu Shinohara

Tokai University Natsumi Futakami

National Cancer Center Kotarou Iijima

April 17 (Sat.) 13:30–17:00 (315)

April 18 (Sun.) 8:00–11:30 (315)

2. Intuitive Understanding of Deep Learning Using a Graphical User Interface (GUI) Environment (Programming course for upper beginners to intermediates)

Instructor: Osaka University Tomohiro Wataya

Supervisor: Osaka University Shoji Kido

Assistants: Osaka University Yuki Suzuki

Osaka University Kazuki Yamagata

Osaka University Tomo Miyata

Osaka University Masahiro Fujiwara

Osaka University Toru Honda

Osaka University Daiki Nishigaki

Joint Awards Ceremony and Joint Members Ceremony

- Joint Awards Ceremony and Joint Members Ceremony: April 18 (Sun.) 13:30–14:30

(National Convention Hall)

【JSRT-JSMP Joint Session】

(A) JSRT-JSMP Joint Session

(1) April 15 (Thu.) 13:00–13:50 (501)

JSRT-JSMP Joint Lecture 1

Moderator: NIRS, QST Naruhiro Matsufuji

Imaging-based Biomarkers in Neuropsychiatric Disorders

QST Makoto Higuchi

(2) April 17 (Sat.) 9:00–9:50 (501)

JSRT-JSMP Joint Lecture 2

Moderator: University of Fukui Tanaka Masato

Chest Images Diagnosis and Education Based on Radiologic-Anatomic-Pathologic Correlation (RAP-C)

University of Fukui Harumi Itoh

(3) April 16 (Fri.) 12:20–13:10 (501)

JSRT-JSMP Joint Program

Preparation and Efforts to Write an Article in English - From the Standpoint of Researcher and Adviser -

Moderator: Kyushu University Akihiro Nohtomi

Hokkaido University Katsuhiko Ogasawara

1. From the Standpoint of Researcher in Clinical Institution

Kumamoto University Hospital Yoshinobu Shimohigashi

2. From the Standpoint of a Leader in the RT's Profession.

International University of Health and Welfare Katsuhiko Ueda

3. From the Standpoint of Researcher in University

Kanazawa University Rie Tanaka

4. Preparation and Efforts to Write an Article in English -From the Standpoint of Advisers-

Kumamoto University Fujio Araki

(B) Award Ceremony for Doi-Prize and Most Citation Award, Outstanding Reviewer Award and Award Lectures

April 16 (Fri.) 11:00–12:10 (501)

Moderator: The University of Chicago Kunio Doi

Kyushu University Akihiro Nohtomi

Hokkaido University Katsuhiko Ogasawara

1) Most Citation Award Ceremony

2) Outstanding Reviewer Award Ceremony

3) Doi-Prize Award Lectures

A) Diagnostic Imaging

Moderator: Teikyo University Shigehiko Katsuragawa

RPT Vol.13, No.2

Investigation of Pulmonary Nodule Classification Using Multi-Scale Residual Network Enhanced with

3DGAN-Synthesized Volumes

Fujita Health University

Yuya Onishi

B) MRI and Nuclear Medicine

Moderator: Kitasato University Tomoyuki Hasegawa

RPT Vol.13, No.3

Evaluation of Bone Metastasis Burden as an Imaging Biomarker by Quantitative Single-photon Emission Computed Tomography/Computed Tomography for Assessing Prostate Cancer with Bone Metastasis: a Phantom and Clinical Study.

Japanese Foundation of Cancer Research

Kazuki Motegi

C) Radiation Therapy Physics

Moderator: Kumamoto University

Fujio Araki

RPT Vol.13, No.3

The Impact of 4DCT-ventilation Imaging-guided Proton Therapy on Stereotactic Body Radiotherapy for Lung Cancer.

Tohoku University and Yamagata University

Yoshiro Ieko

【JSMP Program】

(A) Educational Lecture

(1) April 15 (Thu.) 14:00–14:50 (418)

Moderator: Kyushu University Hidetaka Arimura
 Next-generation medical information infrastructure act ~Large-scale medical data for R & D~
 Cabinet Secretariat, Office of Healthcare Policy Keita Komatsu

(2) April 16 (Fri.) 8:00–8:50 (418)

Moderator: Hyogo Cancer Center Sinji Tsudou
 Report of AAPM task group 275 ~outline of TG 275 and implementation of double check for treatment plan in clinical practice~
 Tohoku University Noriyuki Kadoya

(3) April 16 (Fri.) 15:40–16:30 (418)

Moderator: Osaka University Yutaka Takahashi
 Biological effects of neutrons
 NIRS, QST Tatsuhiko Imaoka

(4) April 17 (Sat.) 8:00–8:50 (418)

Moderator: Tokushima University Akihiro Haga
 Mathematics for deep learning
 Teikyo University Jun'ichi Kotoku

(5) April 17 (Sat.) 11:00–11:50 (418)

Moderator: HIPRAC Shuichi Ozawa
 The state-of-art method of artificial intelligence in the medical field
 Prefectural University of Hiroshima Takumi Ichimura

(6) April 18 (Sun.) 8:00–8:50 (418)

Moderator: Japanese Red Cross Wakayama Medical Center Yoshitomo Ishihara
 Monte Carlo particle transport methods for radiation biology research -Tips from Geant4-DNA Collaboration-
 NIRS, QST Dousatsu Sakata

(B) International Affairs Committee program

April 16 (Fri.) 12:00–13:00 (418)

Correspondence of medical physics division in novel coronavirus pandemic

Moderator: Gono Bishwabidyalay (University), Bangladesh Hasin Anupama Azhari
 Fujita Health University Naoki Hayashi

1. AFOMP guidelines on radiation oncology operation during COVID-19

Wenzhou Medical University First Affiliated Hospital, China Xiance Jin

2. Diagnostic Radiology Medical Physics Education and Clinical Training of the novel COVID-19 in Thailand

Chulalongkorn University, Thailand Anchali Krisanachinda

3. COVID-19 pandemic: Vietnamese government's response, role and responsibility of medical physicists

Cho Ray Hospital, Vietnam Nguyen Tan Chau
4. Correspondence of medical physics division under the Covid-19 pandemic: The case of Hokkaido University

Hokkaido University Taeko Matsuura

(C) Education and Training committee program

April 16 (Fri.) 16:40–18:00 (418)

Information exchange meeting on medical physics education course

Moderator: HIPRAC Shuichi Ozawa

(D) Dosimetry Committee program

April 17 (Sat.) 12:10–13:00 (418)

Current status and future perspectives of measurement of absorbed dose to water in proton therapy

Moderator: Nagoya Proton Therapy Center Toshiyuki Toshito

1. Survey results of dosimetry of absorbed dose to water at proton therapy facilities

National Metrology Institute of Japan Morihito Shimizu

2. Activities at proton therapy facilities -broad beam

Proton Medical Research Center, University of Tsukuba Satoshi Kamizawa

3. Activities at proton therapy facilities -scanning

Narita Memorial Proton Center Masashi Tomida

4. Prospect on the update of Standard Dosimetry 12

Nagoya Proton Therapy Center Toshiyuki Toshito

5. Q & A, Discussion

(E) Special Lecture

April 17 (Sat.) 17:00–17:50 (418)

History of the Japan Society of Medical Physics

Moderator: NIRS, QST Keiichi Akahane

1. History of the Japan Society of Medical Physics

Association for Nuclear Technology in Medicine Masahiro Endo

2. Comment from former president of JAMP/Honorary member

NIRS, QST Takeshi Inuma

3. Comment from former president of JARP/First president of JSMP/Honorary member

NIRS, QST, Honorary Scientist Kiyomitsu Kawachi

4. Comment from vice-president of JSMP

Tokyo Metropolitan University Hidetoshi Saitoh

5. Comment from president of JSMP

QST Hospital, QST Shigekazu Fukuda

(F) JSMBE-JSMP Joint Session

April 18 (Sun.) 12:00–12:50 (418)

Integration of clinical needs and research seeds

Moderator: Kindai University Yuichi Kimura

1. Activity of the Japanese Society of Medical and Biomedical Engineering surrounding the Clinical Research Act

QST Hospital, QST Shigekazu Fukuda

2. Panel Discussion

Kyoto University Tomohiro Kuroda

Panelist: National Defense Medical College Yuji Morimoto

Kyoto University Tomohiro Kuroda

Hokkaido University Toru Yamamoto

JSMP Board of Directors

April 15 (Thu.) 11:00-17:00 (421)

JSMP General Meeting of Members

April 17 (Sat.) 18:00-19:30 (418)