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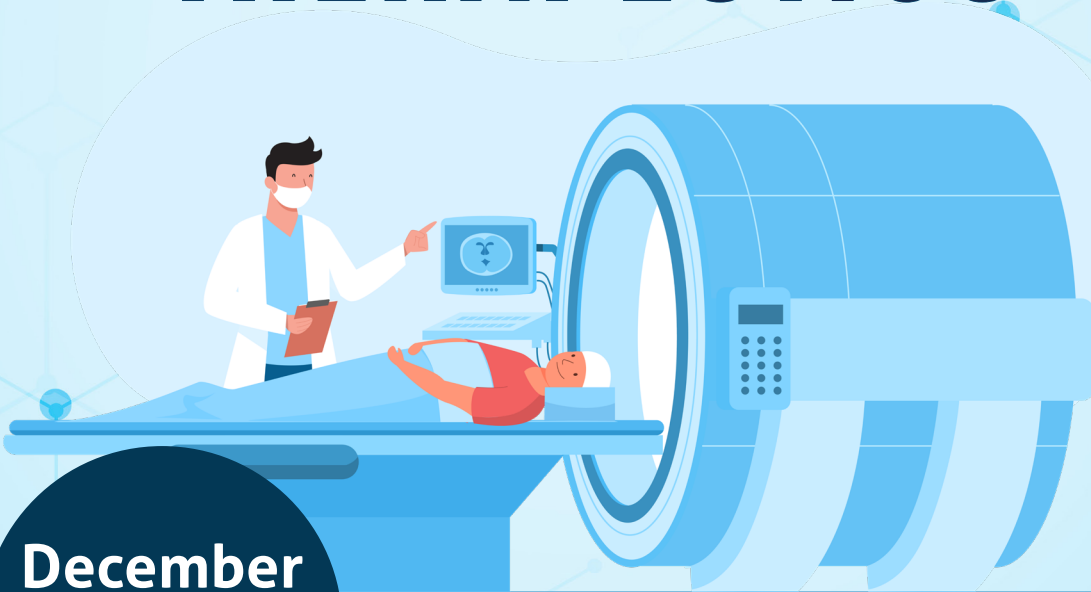
MIT-2022

December 7-8, 2022

Final Program

4th International Conference on

MEDICAL IMAGING & THERAPEUTICS



**December
7-8
2022**

**Virtual Conference
Central European Time (CET)**

Write to us
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<https://unitedscientificgroup.com/conferences/medical-imaging/>

Keynotes

Chair: Su Ann Lee

10.30-11.00



Claudia Lindner, Ph.D.

Senior Research Fellow & Sir Henry Dale Fellow in Translational Medical Imaging, The University of Manchester, Translation Lead, Christabel Pankhurst Institute, UK

Applications of AI to Study, Diagnose and Manage Musculoskeletal Disorders

11.00-11.30



Thomas J. Vogl, M.D., Ph.D.

Director, Institute for Diagnostic and Interventional Radiology, University Hospital Frankfurt, Germany

Interventional Oncology in Lung Tumors/Role of Regional Chemo Therapy Strategies and Thermal Ablation

11.30-12.00



Ivor Fleck, Ph.D.

Professor of Experimental Physics, Dean for Research, Faculty IV: School of Science and Technology, Center for Particle Physics Siegen, University of Siegen, Germany

Detection of MeV Gammas Using Compton Cameras

12.00-12.10 - Break

Radiation Oncology

Chairs: Antonia Dimitrakopoulou Strauss & Irina Afanaseva

12.10-12.30



Yasuhito Sasaki, M.D., Ph.D.

Director, Research Center for Radiation, Oncology, Clinical Research Center, Shonan Kamakura General Hospital, Japan

Nuclear Medicine in Japan as Seen by Me-Reminiscences and Prospects

12.30-12.50



Rafaela Guisantes, M.Sc

Radiation Therapist, Department of Radiotherapy, Coimbra Hospital and University Center, Portugal

CT in Radiotherapy

12.50-13.10



Mark Bradley, Ph.D., FRSE, FRSC

Professor of High-Throughput Chemical Biology, School of Chemistry, University of Edinburgh, UK

Cancer Imaging and Therapy Using Light

13.10-13.30



Antonia Dimitrakopoulou Strauss, M.D., Ph.D.

Professor of Nuclear Medicine, Deputy Head, Clinical Cooperation Unit Nuclear Medicine, German Cancer Research Center, Germany

Dynamic PET for Oncological Applications

13.30-13.45



William Yaxley, MBBS

Urology Principal House Officer, Redcliffe Hospital, Associate Lecturer, The University of Queensland, Australia

Positron Emission Tomography (PET) Imaging - An Updated Look at Its Role in the Diagnosis and Staging of Prostate Cancer

13.45-14.05



Frederique Frouin, Ph.D.

Senior Researcher, Laboratory of Translational Imaging in Oncology, Inserm-Curie Institute, France

A Dedicated Pipeline to Predict Response to Neoadjuvant Chemotherapy in Breast Cancer Using MRI Acquired in Various Centers

14.05-14.25

**Shrey S. Sukhadia, Ph.D.**Assistant Director, Bioinformatics at
Dartmouth-Hitchcock Medical Center,
Lebanon, NH**Tailoring Imaging Phenotypes to Measure
Omic Profiles for Tumors**

14.25-14.45

**Rulon Mayer, Ph.D.**CEO, Oncoscore, Garrett Park, MD,
Adjunct Professor, Perelman School of
Medicine, University of Pennsylvania,
Philadelphia, PA**Combining and Analyzing Novel
Multi-parametric Magnetic Resonance
Imaging Metrics for Predicting Gleason
Score****14.45-14.55 - Break****Neuroimaging**

14.55-15.15

**Irina Afanaseva, Ph.D.**Saint-Petersburg I.I. Dzhanlidze, Research
Institute of Emergency Medicine, Russia**Complications of Surgical Treatment in
Pathology of the Upper Cervical Spine**

15.15-15.35

**Yue Ding, Ph.D.**Associate Professor, Shanghai Mental Health
Center, Shanghai Jiao Tong University School
of Medicine, China**Automated Discrimination of Alzheimer's
Disease by Multimodal Data**

15.35-15.55

**James S. Duncan, Ph.D.**Ebenezer K. Hunt Professor and Chair of
Biomedical Engineering, Professor of Radiology
& Biomedical Imaging, Yale University,
New Haven, CT**Neuroimage Analysis in Autism:
From Model-based Estimation to
Data-driven Learning**

15.55-16.10

**Xiaoyue Ma**Department of Magnetic Resonance Imaging,
The First Affiliated Hospital of Zhengzhou
University, China**Evaluation of Infarct Core and Ischemic
Penumbra by Absolute Quantitative
SCALE-PWI in Patients with Cerebral
Ischemic Stroke****Keynotes****Chair: Julie Lascaud**

16.10-16.40

**Song Zhang, Ph.D.**Professor and Assistant Head for Experiential
Learning School of Mechanical Engineering,
Purdue University, West Lafayette, IN**High-speed 3D Structured Light
Imaging and Applications**

16.40-17.10

**Allen Tannenbaum, Ph.D.**Distinguished Professor, Departments of
Computer Science and Applied Mathematics &
Statistics, Stony Brook University,
Stony Brook, NY**Mathematical Methods in Medical Image
Processing**



17.10-17.40

Demetri Terzopoulos, Ph.D.

Distinguished Professor and Chancellor's Professor of Computer Science, UCLA; Co-Founder and Chief Scientist, VoxelCloud, Inc., Los Angeles, CA

**AI in Medical Imaging for Healthcare:
A Personal Perspective**

Posters

17.40-17.50

Ashley Castillo, M.D.

Albert Einstein College of Medicine, New York, NY

Anatomic Contributions of Predictive Modeling in Chiari Malformation

17.50-18.00

Samuel Ahmad, M.D.

Albert Einstein College of Medicine, New York, NY

**Volumetric Segmentation in the Context of Posterior Fossa Related Pathologies:
A Systematic Review**

End of Day-1

Vascular and Interventional Radiology

Chair: Frederique Frouin

10.40-11.00



Josephine Mak, MBChB., MSc.

Vascular Resident, Wellington Hospital,
New Zealand

A Single Centre Retrospective Review of One Year Outcomes Following PETTICOAT/STABILISE Procedure for Aortic Dissection

11.00-11.20



Summer Hassan, MBChB., M.D.

Surgical Registrar, Auckland City Hospital,
Middlemore Hospital, New Zealand

Retrograde as an Alternative to Antegrade Approach in Peripheral Arterial Angioplasty

11.20-11.40



Luisa Siciliani, Ph.D.

Division of Infectious Disease I, Fondazione
IRCCS Policlinico San Matteo, Italy

Hepatic Vein Waveform Index (HVWI) and Portal Vein Velocity (PVV) in Covid-19 Patients: the Hepatic Involvement from an Ultrasound Point of View. A Cross-Sectional Study

11.40-12.00



Mahmoud Alrahawy, Ph.D.

Surgery Registrar, James Cook University
Hospital, UK

Large Thigh Tuberculous Abscess Mimicking a Femoral Pseudoaneurysm: A case report

Posters

12.00-12.10

Mark Hou

Changhua Christian Hospital, Taiwan

Comparison of Two Ultrasonography Operating Methods Used in Acupuncture to Avoid Risk of Pneumothorax

12.10-12.20

Abhijit C. More, M.D.

Junior Resident, Indira Gandhi Govt. Medical College and
Hospital, India

A Rare Twin Pregnancy with Congenital Pulmonary Airway Malformation Type II

Medical Physics & Bioengineering

Chair: Ivor Fleck

12.20-12.35



Andres Ruland, Ph.D.

Research Fellow, ARC Centre of Excellence
for Electromaterials Science, University of
Wollongong, Australia

Reference Phantom Method for Ultrasonic Imaging of Thin Dynamic Constructs

12.35-12.55



Tali Ilovitsh, Ph.D.

Assistant Professor, Department of Biomedical
Engineering, Tel Aviv University, Israel

Bubbles-enhanced Ultrasound Mechanotherapy for Noninvasive Cancer Surgery

12.55-13.15



Julie Lascaud, Ph.D.

Department of Medical Physics, Ludwig
Maximilian University of Munich, Germany

Ionoacoustics-based Dose Reconstruction in Pre-clinical Pulsed Proton Beams

13.15-13.30



Bander S. Al Mutairi

Technical Director, Radiology Department,
Senior Sonographer, King Abdulaziz University,
Faculty of Applied Medical Sciences,
Saudi Arabia

The Assessment of Pancreas Stiffness Using Point Shear Wave Elastography (pSWE)

13.30-13.50

**Bo Zhao, Ph.D.**

Assistant Professor, Department of Biomedical Engineering, Oden Institute for Computational Engineering and Sciences, The University of Texas, Austin, TX

A Statistical Framework for Magnetic Resonance Fingerprinting: Optimized Encoding and Decoding**13.50-14.00 - Break****Artificial Intelligence and Machine Learning****Chair:** Dmitry Goldgof

14.00-14.20

**Su Ann Lee, Mmed, FRCR**

Director & Consultant Radiologist, Quantum Medical Imaging, Singapore

Simple and Cost-effective Medical Imaging Solution Setup in Combination with Cloud Technology as an Alternative to Conventional RIS-PACS

14.20-14.40

**Amita Shukla-Dave, Ph.D., FISMRM**

Director Quantitative Imaging, Deputy Service Chief Predictive Informatics, Member Departments of Medical Physics and Radiology, Memorial Sloan-Kettering Cancer Center, New York, NY

Challenges and Opportunities in Clinical Translation of Quantitative Magnetic Resonance Imaging and Artificial Intelligence in Oncology

14.40-15.00

**Tahira Nishtar, FCPS**

Professor of Radiology, Medical Teaching Institute, Lady Reading Hospital, Pakistan

Diagnostic Accuracy of Computer Aided Reading of Chest X-ray in Screening for Pulmonary Tuberculosis in Comparison with Gene-Xpert

15.00-15.15

**En Zhou Ye**

Blyth Academy and University of Sherbrooke, Canada

Deep Image Translator V2: Analysis of Multimodal Medical Images Using Semantic Segmentation Maps Generated Through Deep Learning

15.15-15.35

**Frank Zijun Zhang, Ph.D.**

Assistant Professor, Division of Artificial Intelligence in Medicine, Cedars-Sinai Medical Center, Los Angeles, CA

Automated Deep Learning Strategies for Biomedicine**Keynotes**

15.35-16.05

**Jun Hua, Ph.D.**

Associate Professor, Department of Radiology, Johns Hopkins University School of Medicine, and F.M. Kirby Research Center, Kennedy Krieger Institute, Baltimore, MD

Advanced MRI Techniques for Non-invasive Imaging of Brain Function and Microvasculature

16.05-16.35

**Elisa E. Konofagou, Ph.D.**

Professor of Biomedical Engineering and Radiology, Columbia University, New York, NY

Theranostic Ultrasound: Combining Imaging and Therapy for Elasticity Imaging and Neurotherapeutics**16.35-16.45 Break**

Medical Imaging and Analysis **Chair:** Madhusmita Satapathy

16.45-17.00



Guangju Zhang, Ph.D.

Postdoctoral Research Fellow, Department of Electrical and Computer Engineering, Boston University, Boston, MA

4-D Imaging of Beating Tissues Using Optical Coherence Tomography

17.00-17.20



Jaber A. Asiri, M.S., NMTCB

Nuclear Medicine Unit, Medical Imaging Department, King Saud Medical City, Saudi Arabia

99mTc-Sulfur Colloid SPECT/CT in Diagnosis of Splenogonadal Fusion

17.20-17.40



Dmitry Goldgof, Ph.D.

Distinguished University Professor and Vice-Chair, Department of Computer Science and Engineering, University of South Florida, Tampa, FL

Mitigating Shortcut Learning of Deep Neural Networks in Medical Image Analysis

17.40-18.00



Madhusmita Satapathy, M.S.

Sonographer, Department of Radiology, University of North Carolina Medical Center, Chapel Hill, NC

Less Intense Focused Ultrasound

18.00-18.20



Shikha Nandal, D.D.S., M.D.S

Prosthodontist & Implantologist Lead dentist at Diversity Health Centre, Hinesville, GA

Role of Medical Imaging in Diagnosing Crack Tooth Syndrome

18.20-18.40



Harrison Kim, Ph.D.

Associate Professor, Department of Radiology, The University of Alabama at Birmingham, Birmingham, AL

Point-of-care Portable Perfusion Phantom for Quantitative DCE-MRI Measurement

Posters

18.40-18.55

Shefali Jain & Ananya S. Munjal

Medical College of Georgia Augusta, Georgia, GA

Assessing if fMRI has a place in Predicting Suicidal Behaviors in High Risk Adolescents

18.55-19.05

Davin Evanson

Drexel University College of Medicine, Philadelphia, PA

Sub-pericardial Hematoma Following Coronary Angiography

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