3rd International Conference on Medical Imaging and Case Reports
March 9-11, 2022 | Virtual

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KEYNOTE SPEAKERS

Chair: Amita Shukla Dave - 8:35-11:05

08:35-09:10
Leo Joskowicz, Ph.D.
Head, Computer-Assisted Surgery and Medical Image Processing Laboratory, School of Computer Science and Engineering and, The Edmond and Lily Safra Center for Brain Sciences (ELSC), The Hebrew University of Jerusalem, Israel

Accelerating Deep Learning Medical Image Analysis in Radiology

09:45-10:20
Clare Mary C. Tempany, M.D, FACR, FISMRM
Ferenc Jolesz MD Professor of Radiology
Harvard Medical School, Vice-Chair, Radiology Research Department of Radiology Brigham & Women’s Hospital, Boston, MA

Prostate Cancer 2022

10:20-10:30 Break

10:30-11:05
Paul A. Bottomley, Ph.D.
Russell H Morgan Professor, Director, Division of MR Research, The Russell H. Morgan Department of Radiology & Radiological Science, Johns Hopkins University, Baltimore, MD

The Frontier of Accelerated MRI: Endoscopy, Kinematography, and Physiology at up to 100 fr/sec

11:40-12:15
Bin He, Ph.D.
Trustee Professor of Biomedical Engineering, Professor of Neuroscience and Electrical and Computer Engineering, Director, Neural Interfacing Training Program, Carnegie Mellon University, Pittsburgh, PA

Electrophysiological Source Imaging of Epileptic Tissue

10:30-10:45
Joseph M. Reinhardt, Ph.D.
Roy J. Carver Chair in Biomedical Engineering, Professor and Department Executive Officer, The University of Iowa, Iowa City, IA

Using Generative Adversarial Networks for Predicting Regional Lung Function

11:05-11:40
Laura Esserman, M.D, M.B.A.
Director, UCSF Breast Care Center, Professor of Surgery and Radiology, University of California, San Francisco, CA

Imaging is a Catalyst for Changing the Management of Patients at Risk for, or Diagnosed with, Breast Cancer

12:15-12:50
Constance Lehman, Ph.D., M.D, FACR
Professor of Radiology, Harvard Medical School, Chief of Breast Imaging/Co-director of AVON Breast Center, Massachusetts General Hospital, Boston, MA

AI in Healthcare: Where Will We Take This?

12:50-13:10 Break
13:10-13:30

Dania Daye, Ph.D., M.D.
Assistant Professor of Radiology, Harvard Medical School, Massachusetts General Hospital, Director, Precision Interventional and Medical Imaging Lab, Boston, MA

Precision Oncology: Applications of AI for Cancer Risk and Prognosis Prediction Using Multimodal Clinical Datasets

13:30-13:50

Patrick Bangert, Ph.D.
Vice President of AI, Samsung SDS, San Jose, CA

Automated Annotation and Deep Learning in Training Medical Imaging AI Models

13:50-14:10

Annika Reinke, Ph.D.
Division of Computer Assisted Medical Interventions and HIP Helmholtz Imaging Platform, German Cancer Research Center (DKFZ), Germany

Metrics Matter – How to Choose Validation Metrics that Reflect the Biomedical Needs
Technical Session-2
Medical Imaging and Analysis

**MARCH 10, 2022**
07:00 - 12:10 (EST)

**DAY-2**

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tr>
<td>07:00-07:20</td>
<td>William Yaxley</td>
<td>Which Imaging Modality Better Detects Intraprostatic Prostate Cancer? A Comparison Between Pre-operative Multiparametric Prostate MRI vs 68Ga-Prostate-Specific Membrane Antigen Positron Emission Tomography/Computerized Tomography on Histological Findings at Radical Prostatectomy</td>
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<tr>
<td>07:20-07:40</td>
<td>Chrystle Mascarenhas</td>
<td>Marsupialization of a Pneumatocele- Intervention for a Rare Post–COVID-19 Sequelae</td>
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<td>07:40-08:00</td>
<td>Shuang Tang, Ph.D., M.D., MHSc</td>
<td>Integrating Metabolic Reprogramming and Metabolic Imaging to Predict Breast Cancer Therapeutic Responses</td>
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<td>08:00-08:20</td>
<td>Aadil Ahmed, MBBCh, FCRad (Diag)</td>
<td>Where's the Line? (Talk on Pediatric Lines and Tubes on CXR and AXR)</td>
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<td>08:20-08:40</td>
<td>Santosh S Gupta, M.D.</td>
<td>Functional MRI (fMRI) and Diffusion Tensor Imaging (DTI) in Neurosurgical cases</td>
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<td>08:40-09:00</td>
<td>Trinanjan Basu, M.D.</td>
<td>CT Based Delineation for Parotid Ducts in HNC-Spare to Care</td>
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<td>09:00-09:10</td>
<td>Break</td>
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<td>09:10-09:30</td>
<td>Alexander B. White</td>
<td>Aortoenteric Fistula following Endovascular Aneurysm Repair</td>
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<td>09:30-09:50</td>
<td>Simone Krebs, M.D, MS</td>
<td>Comparison of 68Ga-DOTA-JR11 PET/CT with Dosimetric 177Lu-satoreotide Tetraxetan (177Lu-DOTA-JR11) SPECT/CT in Patients with Metastatic Neuroendocrine Tumors Undergoing Peptide Receptor Radionuclide Therapy</td>
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<td>09:50-10:10</td>
<td>Karen Buch, M.D.</td>
<td>Neuroimaging Manifestations of COVID-19 Infection</td>
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**Medical Imaging and Analysis**

**Before COVID-19**
- Trimanjan Basu, M.D.
  - Consultant Radiation Oncologist
  - HCG Apex Cancer Centre, India

**During COVID-19**
- Marsupialization of a Pneumatocele
  - Intervention for a Rare Post–COVID-19 Sequelae

**After COVID-19**
- Integrating Metabolic Reprogramming and Metabolic Imaging to Predict Breast Cancer Therapeutic Responses
- Functional MRI (fMRI) and Diffusion Tensor Imaging (DTI) in Neurosurgical cases
- CT Based Delineation for Parotid Ducts in HNC-Spare to Care
Technical Session-3

Computed Tomography

Chair: Kalpna Prasad

10:10-10:30
Changning Wang, Ph.D.
Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, MA
PET Imaging Probes Development for Epigenetics

10:30-10:50
Kalpna Prasad, M.D, MPH
Department of Radiology, Walter Reed National, Military Medical Center, Bethesda, MD
MPI: Effect of BMI on High Vs Low Administered Activity Scan time and Radiation Effective Dose

10:50-11:10 Break

11:10-11:30
Narisha Maharaj, MMed, FCRad Diag
King Edward VIII Hospital, Nelson R Mandela School of Medicine, University of Kwa-Zulu Natal, South Africa
Bilateral Absence of the Superior Vena Cava

11:30-11:50
Irina Afanaseva, Ph.D.
Saint-Petersburg I.I. Dzhanelidze Research Institute of Emergency Medicine, Saint-Petersburg, Russia
Multispiral Computed Tomography Diagnostic Capability at the Stages of Pre- and Postoperative Management of Patients with Purulent-Inflammatory Diseases of the Spine

11:50-12:10
Gonzalo Vegas Sanchez-Ferrero, Ph.D
Assistant Professor of Radiology, Department of Radiology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA
Harmonization of In-plane Resolution in CT Scans: Improving Image Resolution from Multiple Reconstructions
08:00-08:20  
Tarba Naala, M.D.  
B.V. Petrovsky National Research Center of Surgery, Moscow, Russia  
**MRI in Planning of Maximal (maximum) Acceptable Liver Resections in Patients with Hepatoblastoma**

08:20-08:40  
Vidya Desai, M.D.  
Junior Resident, Indira Gandhi Government Medical College, India  
**Fetus with CHAOS Syndrome – Evaluated Through Radiological Aspect**

08:40-09:00  
Philip Romanski, M.D.  
Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine, Weill Cornell Medical Center, New York, NY  
**Improve Delineation of Pelvic Anatomy on MRI: the Use of Aqueous Vaginal Contrast in Complex Müllerian Anomalies**

09:00-09:20  
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  
**Integration of Quantitative MR Imaging and Artificial Intelligence in Clinical Neuro-Oncology**

09:20-09:40  
Linda Knutsson, Ph.D.  
Professor, F.M. Kirby Research Center for Functional Brain Imaging, Kennedy Krieger Institute, Baltimore, MD  
**Advanced Brain Imaging Using Perfusion MRI**

09:40-10:00  
Mai-Lan Ho, M.D.  
Associate Professor of Radiology, Nationwide Children's Hospital, The Ohio State University, Columbus, OH  
**Advances in Pediatric Head and Neck Imaging**

10:00-10:10 Break

**KEYNOTE SPEAKER**

10:10-10:45  
Bradley Mark, Ph.D., FRSE, FRSC  
Professor of High-Throughput Chemical Biology, School of Chemistry, Director of the EPSRC IRC Proteus, University of Edinburgh, UK  
**Optical Medical Fluorescent and Fluorescent Lifetime Imaging - from Chemical Probes to New CMOS SPAD Detectors**
10:45-11:05
Selin Chiragzada
Product Engineer, Promaxo Inc, Oakland, CA
Low-field MRI System Accuracy Analyses

11:05-11:25
Upasana U. Bharadwaj, M.D.
Postdoctoral Scholar, Department of Radiology and Biomedical Imaging, University of California, San Francisco, CA
CT-like MRI: A Qualitative Assessment of ZTE Sequences for Knee Osseous Abnormalities

11:25-11:45
Patricia Le
Creighton University School of Medicine, Omaha, NE
Atypical Clinical Manifestations of Autoimmune Encephalitis

11:45-12:05
Or Perlman, Ph.D.
Athinoula A. Martinos Center for Biomedical Imaging, Department of Radiology, Massachusetts General Hospital and Harvard Medical School, Boston, MA
Quantitative Imaging of Apoptosis using AI Boosted Molecular Magnetic Resonance Fingerprinting

12:05-12:25
Mukesh Dhamala, Ph.D.
Neuroscience Institute, Department of Physics and Astronomy, Georgia State University, Atlanta
Tracking Seizure Networks with Intracortical EEG and rsfMRI

12:25-12:45
Maria Giovanna Fava, M.D.
Medical Doctor, Department of Surgery, Surgery Complex Unit, Great Metropolitan Hospital, Reggio Calabria, Italy
MRI in the Setting of Breast Carcinoma with Suspicious Microcalcifications and his Predictive Value in Breast Cancer Management