

Zoltán Patay Scientific Symposium



PBII
Pediatric Biomedical
Imaging Initiative

Moving Towards Artificial Intelligence in Pediatric Tumor Imaging *Monday, April 3, 2023*

7:30am - 8:00am Registration

8:00am – 8:15am **Introduction**

Science of AI in Modern Medicine

8:15am – 9:00am ***Fundamentals- Nuts and Bolts of AI***
Bonny Banerjee, PhD
University of Memphis

9:05am – 9:35am ***Scope and Limitations of AI in Modern Medicine***
Pranav Rajpurkar, PhD
Harvard Medical School

9:40am – 10:10am ***Ethical Issues in Using AI in Medicine***
I Glenn Cohen, JD
Harvard Law School

10:15am – 10:35am **Session Break**

AI in Medical Imaging

10:35am – 11:35am ***Keynote: AI in Biomedical Image Acquisition, Analysis, and Interpretation***
Daniel Rückert, PhD
Technical University of Munich

11:40am – 12:40pm **Lunch Break**

12:40pm – 1:10pm ***AI-Based Image Reconstruction Accelerated Imaging***
Patricia Johnson, PhD
New York University, Grossman School of Medicine

1:15pm – 1:45pm ***AI Optimization and Automation in Post-Processing****
Bernhard Kainz, PhD
Imperial College London, FAU Erlangen- Nürnberg

AI in Clinical Use

1:50pm – 2:20pm ***AI for Neuroimaging***
Greg Zaharchuk, PhD
Stanford University

2:25pm – 2:45pm **Session Break**

2:45pm – 3:15pm ***AI Strategies for Pediatric Brain Tumors****
Kristen Yeom, MD
Stanford University

3:20pm – 3:50pm ***Towards AI-Based Prediction of Survival of Pediatric Brain Tumors***
Andrew Peet, PhD, FRCPHC
University of Birmingham and Birmingham Children's Hospital, UK

3:55pm – 4:00pm *Closing remarks*

(*) *virtual presentation*