Session Program

Mar 15 – 17, 2023

Joint DOE / NIH Workshop - Advancing Medical Care through Discovery in the Physical Sciences Workshop Series: Radiation Detection

Session 7 - Applications of Artificial Intelligence

Jefferson Lab, Auditorium

Fri, March 17

2:15 PM

Session 7 - Applications of Artificial Intelligence

Session | **Location:** Jefferson Lab, Auditorium | **Conveners:** Behrouz Shabestari, Gina Tourassi

2:15 – 2:35 PM **State-of-the-art Challenges and Emerging Technologies**

Speaker
Babak Saboury

2:35 – 2:55 PM **Capabilities from the Physical Sciences**

Speaker
Mike Williams

2:55 – 3:05 PM **AI for PET Image Enhancement**

Speaker
Joyita Dutta

3:05 – 3:15 PM **Deep learning-based Denoising**

Speaker
Ge Wang

3:15 – 3:25 PM **HyperCT: Autonomous Hyperspectral Computed Tomography**

Speaker
Shimin Tang

3:25 – 3:35 PM **Deep Learning for Data Corrections in PET and SPECT**

Speaker
Chi Liu

3:35 – 3:45 PM
Developments in EdgeML Inference in FPGAs, and their Applications in PET

Speaker
Larry Ruckman

3:45 – 4:15 PM **Panel Discussion**

4:15 PM