

2019 RAMPS Sal Vacirca YIS symposium program

M-107 (MSKCC)

6:30 – 8:00 pm

Pizza will be served at 6:00 pm

Talks (8 min presentation, 2 min Q &A)

6:30 – 6:40 pm: A novel computationally tractable algorithm to integrate soft and hard dose-volume constraints into IMRT fluence optimization (Sovanlal Mukherjee)

6:40 – 6:50 pm: Quality assurance of beam energy and output for gated treatment delivery using IC profiler and quad wedges (Lei Hu)

6:50: 7:00 pm: Super-resolved 3D isotropic knee MR image synthesis using 2.5D generative adversarial networks (Yucheng Liu)

7:00 – 7:10 pm: Monte Carlo simulation of truebeam linac energy spectra for 6 and 15 MV beams (Jian Liu)

7:10 – 7:20 pm: A super-resolution framework for reconstruction of T2-weighted (T2w) time-resolved (TR) 4dMRI using T1w TR-4DMRI as the guidance (Xingyu Nie)

7:20 – 7:30 pm: Automated VMAT-based total body irradiation treatment planning using eclipse scripting API (Jose Teruel)

7:30 – 7:40 pm: Extended axial field-of-view PET prototype scanner with Sparse detector block rings configuration (Sara Zein)

7:40 – 7:50 pm: Robustness of conditional generative adversarial networks in generating head and neck synthetic CT images for MR-only radiotherapy treatment planning (Peter Klages)

7:50 – 8:00 pm: Evaluation of CIED dosimetry using OSLDs for patients treated for lung cancers using SBRT (Sameer Taneja)