Biomedical Informatics Grand Rounds
Wednesday, October 26th, 2022 3:00 pm – 4:00 pm

Reverse Engineering the Doctor’s Mind

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Remote Access
Join Zoom Meeting https://stonybrook.zoom.us/j/95617197636?pwd=KvtzZ2pVRG9SZGpKZUtNXJISjNjZz09
Meeting ID: 956 1719 7636 Passcode: 924293

Bio: Anirban Mukhopadhyay leads an independent research group at TU Darmstadt, Germany that develops assistive AI for Image-guided diagnosis and surgery. He organizes premier international conferences, challenges and workshops. Dr. Mukhopadhyay is the AI-partner of RACOON, the radiology conglomerate of 38 German University hospitals to combat COVID-19. He hosts the popular podcast “AI-Ready Healthcare.

Abstract: To scale-up access to healthcare, we are reverse engineering the doctor’s mind into an AI agent. Our goal is to attain robust medical intelligence for a dynamic clinical setting, by taking a 3 step approach: start like a medical intern, learn like a resident physician and practice like a doctor. I will introduce some of our research highlights from both image-based diagnosis as well as image-guided surgery. This includes shape-aware segmentation, automatic quality assessment of medical AI under distribution shift as well as our publicly-available software packages. By listening to this talk, you'll get a perspective of where the medical AI research of our group at TU Darmstadt is heading in the next 5 years.

Educational Objects: Upon completion, participants should be able to:
- Understanding of shape-constrained segmentation
- Robustness of medical AI under distribution shift
- Continual learning for the dynamic clinical world

Disclosure Statement: The faculty and planners have no relevant financial relationship with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing health care products used by or on patients.

Continuing Medical Education Credits: The School of Medicine, State University of New York at Stony Brook, is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The School of Medicine, State University of New York at Stony Brook designates this live activity for a maximum of 1 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.