Translational Computer Science Research at MIT: Health 0.0

Medical imaging technologies using unorthodox artificial intelligence for early disease diagnoses

Novel ethical, secure and explainable artificial intelligence based digital medicines and treatments

Point-of-care medical technologies for real world data and evidence generation
Advancements In Image Recognition in Medical Imaging, Cancer Imaging and Beyond

○ Courtney Ambrozic, SAS
  • CT scans
  • Training neural networks
  • Liver segmentation and training
  • Deep learning segmentation

○ Shravya Shetty, Google Health
  • CT scans
  • Cancer screening
  • Detection of lesions
  • Publicly available datasets
  • Deep learning segmentation

○ Gregory Goldmacher, Merck Research Laboratories
  • Segmentation tools
  • Novel analysis
  • Challenges for pharma for sharing that data
  • Independent review part - how that could be automated - which has very little risk for pharma

○ Tito A. Fojo, Columbia University
  • Work with PDS data (non-image based)
  • Vol-PACT image data and algorithms
  • Benefit of PDS platform and open-access data
  • Reference VOL-Pact image data (augmenting the radiology readers)

○ Matt Lungren, Stanford University
  • Focus on data sharing
  • Public data sharing efforts and provenance
  • Methodologies
  • Unique challenges in cancer data (2-D images) vs CT scans
  • Data sharing provenance and labeling
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