BME PARIS
BioMedical Engineering
MASTER'S PROGRAM

Deep Learning in Digital Pathology

Open Your Mind Seminar

Friday, Nov 10 2023
1.30 pm – 3.00 pm

Amphitheater BÉZIER
Arts et Métiers Institute of Technology
155 boulevard de l'Hôpital, 75013 Paris

Leveraging Deep Learning in Digital Pathology for Enhanced Cancer Diagnosis

My research is centered on harnessing the power of deep learning models in the field of digital pathology. These advanced models have proven instrumental in achieving precise cancer diagnoses, facilitating the discovery of novel insights through an enriched understanding of cell and tissue phenotypes.

In my talk, I will present tangible examples demonstrating how artificial intelligence (AI) can significantly enhance breast cancer diagnosis. A key focus will be on the primary challenges encountered during the development of these AI systems. Notably, the vast heterogeneity inherent in cancer biology, coupled with variations in data acquisition methods, poses significant challenges, potentially impacting the accuracy of AI diagnostics.

To address these challenges, I will share practical strategies and solutions that our team has employed. These approaches have been crucial in overcoming the obstacles presented by data variability and have led to the development of a clinically approved, reliable, and trustworthy AI system for clinical usage. My presentation aims to provide insights into the complexities of AI in medical diagnostics and the innovative methods we have adopted to navigate these challenges successfully.

Saima BEN HADJ
Tribun Health

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