

“Surf the Data Tsunami - Leveraging Gears and Platforms”

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We live in a world that is drowning in data. Gartner estimated the number of connected IoT devices approximately at 6.3 billion in 2016, and the number is expected to surge to 125 billion by 2030. Digital pathology fosters innovation in how pathology practices are transforming patient care. However, it will also contribute significantly to the healthcare data explosion. A typical Whole Slide Imaging (WSI) scanner would potentially add up to one to two terabytes of images a day. In this era of data explosion, the way we do science will be increasingly driven by data. In order for our future to be guided by data but not be inundated with them, we need to strive to build a solid foundation of data science with a great sense of urgency. In this talk, we will attempt to identify fundamental and formidable challenges that warrant immediate attention and discuss some of the promising ideas to address these challenges.