



The Next Big Thing in Clinical AI

Dr. Allen Chi-Shing Yu

Co-founder, Codex Genetics Limited and Qualife Hong Kong Limited,
HKSAR

We are now on the cusp of a technological revolution. Big Data technologies instilled an informational perspective to our understanding of the world. With the advent of molecular techniques and informatics capabilities, exabytes of biological data were generated. The colossal volume of biological data contain a treasure trove of insights, which are yet to be fully deciphered for diagnostic use.

In this talk, we will discuss the latest trends in applying Big Data technologies to several key areas of molecular diagnostics. Recent advances in Big Data technology allow us to interrogate a larger breadth and depth of clinical evidences, and in turn improve the accuracy and speed of diagnosis. While Big Data has great impact on the development of molecular diagnostic tests, it comes with potential perils. Fundamental issues such as the management and storage of data can create privacy concerns. Heterogeneous types of data pose challenges in reproducibility and standardization. Professionals may struggle to keep up and thus fail to seize the full benefits of the technology. It is now an opportunity for us to help healthcare professionals, educators, and policy-makers understand the impact of Big Data, and steer the development roadmap to positively impact the molecular diagnostic industry.

