UNIVERSITY OF CAMBRIDGE

NHS
Cambridge University Hospitals
NHS Foundation Trust

intel

AI and Image Visualization Technologies Used to Fight COVID-19 and Future Diseases

At the start of COVID-19, Dr Mike Roberts (Senior Research Associate of Applied Mathematics) and Professor Carola-Bibiane Schönlieb (Professor of Applied Mathematics) of the University of Cambridge wondered how AI could help predict and potentially manage disease outcomes. With funding from the Intel Pandemic Response Technology Initiative, they were able to create the global AIX-COVNET team to develop an AI toolkit currently in the research phase that could help manage and treat COVID-19 patients. When a patient with suspected COVID-19 comes into hospital, they would receive a CT scan of their chest. 3D images are formulated, which will be sent to the algorithm devised by AIX-COVNET. Based on measurements from the patient, and by pinpointing different patterns compared to a database, the clinician would receive quantification of the disease, helping them to predict how it might develop.

> "The conversations with Intel have been invaluable for understanding the technology that is available, and how we integrate it. As well as the advice for how we use different technologies around the world."
>
> **Dr Mike Roberts, Senior Research Associate of Applied Mathematics, University of Cambridge**

Products and Solutions
3rd Gen Intel® Xeon® Scalable Processor
Intel® Movidius™ Neural Compute Stick

Industry
Education, Hospitals
& Healthcare

Organization Size
10,001+

Country
United Kingdom

Learn more
Case Study
Video