

Title: Factors to consider when using automated analyses algorithms and AI to quantify ocular parameters from ophthalmic images

Summary:

Ocular imaging has become an indispensable clinical staple not only for ophthalmic purposes but also in the assessment of cardiovascular, cerebrovascular and neurological conditions. With advances in computer processing, image analysis and access to large data it is now possible to process digital ocular images at speed. While this opens endless possibilities in parameterisation of such images and identification of new biomarkers it does not come without its pitfalls and limitations. This talk will provide an overview of opportunities and issues which still need addressing to unlock the full potential of the rich information gained from ophthalmic images. Such images can help provide better screening and individualised patient assessment (diagnoses, classification, monitoring and treatment decisions) and undoubtedly reduce chair time and cost.