

## 4<sup>th</sup> International Conference on Clinical & Experimental Ophthalmology

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## Tele-ophthalmology and diabetic retinopathy screenings

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Tele-ophthalmology could enable screening, diagnosis and management of patients remotely. Using an innovative imaging and telemedicine system (Remote-I) together with broadband satellite, specialist eye care has been brought to the underserved communities living in remote Australia. More than 900 people have been screened for diabetic retinopathy. The retinal images and patient data have been sent via satellite to a specialist for reading. About 10% of the people screened found to have sight threatening diabetic retinopathy and have been referred to the visiting ophthalmologist or to territory hospital for treatment. Appropriate protocols and referral pathways have been developed to sustain the services after the trial phase. In addition, automated disease grading system for diabetic retinopathy has been validated such that image reading cost and delays in image reading could be avoided.

## Biography

Yogesan Kanagasingam is the Research Director of the Australian e-Health Research Centre at CSIRO - and he is changing the way eye care is delivered around the world. He is an Adjunct Professor at the University of Notre Dame and a visiting scholar at the Harvard University. He has developed many award winning medical technologies that are used for prevention of blindness. One of his inventions, EyeScan device, is used in the Spacelab and another used in China for screening of diabetic patients in Guangdong province with 100 million people. His team was the first to demonstrate the relationship between the retina and Alzheimer's disease, and also the first to develop ocular biomarkers for the non-invasive early detection of Alzheimer's disease. An internationally recognized scholar, inventor and entrepreneur, Professor Yogesan has been the recipient of many awards including the Senior Fulbright Scholarship and the WA Inventor of the Year Mitsubishi Encouragement Award.

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