

World-changing innovation

EPIC: New Medical Devices Making the Impossible Possible Luis Diaz-Santana & Edmund Owen

EPIC: NEW MEDICAL DEVICES MAKING THE IMPOSSIBLE POSSIBLE

Cambridge Consultants

A world leader in technology & service innovation

- We develop "first of kind" systems or rapid speed to market with:
 - Market leading performance
 - Reduced time-to-market & reduced risk
 - Valuable IP our clients can own
- 70% of our work is repeat business we become trusted partners to our clients
- Over 60 years' history of product development and technology innovation





Facilities to nurture breakthroughs

- Over 100 world-class labs across 20,000sqm of delivery facilities
- Our team comprises over 900 engineers, scientists and designers,
- Latest tools and facilities for world class development, distributed across six locations around the globe



Cambridge Consultants

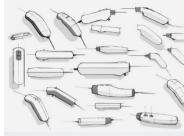
Chip-on-tip endoscope

OmniVision OV6946 "chip-on-tip" 400 x 400 pixel sensor (0.9mm x 0.9mm)



4 glass fibres pipe light from an LED in the handle to the tip

No need for external processing, all electronics and illumination contained in the handle







1.35mm outer diameter flexible scope



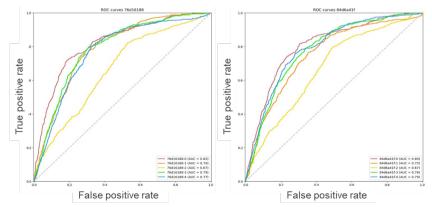
Screening neuropathy from retinal images using Deep-Learning



Diabetesis a significant health problem globally. Peripheral neuropathy (PN) is a common complication that can result in disability due to foot ulceration and amputation.

We hypothesized that PN could be identified from retinal images. Our results indicate that it is possible to predict the presence or absence of diabetic neuropathy from retinal images alone using deep-learning.

Neuropathy diagnosis, binary, best model: AUC: 0.763 ±0.051





UK • USA • SINGAPORE • JAPAN

www.CambridgeConsultants.com

Cambridge Consultants is part of the Altran group, a global leader in Innovation. www.Altran.com

The contents of this presentation are commercially confidential and the proprietary information of Cambridge Consultants © 2019 Cambridge Consultants Ltd. All rights reserved.

0

0

0

Registered no. 01036298 England and Wales