## How much can you extract from noise when imaging the cornea?

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## Abstract

Can OCT speckle provide additional clinical information for ophthalmologists to that available in that type of eye imaging? Most likely, yes.

## About the presenter

I received the Ph.D. degree in statistical signal processing from Queensland University of Technology (QUT), Brisbane, Qld., Australia, in 1997, and the D.Sc. degree in biocybernetics and biomedical engineering from the Silesian Technical University, Gliwice, Poland, in 2010. From 1996 to 2000, I worked as a Research Fellow at the Signal Processing Research Centre and the Centre for Eye Research, QUT. After that, I joined the School of Engineering, Griffith University, as a Senior Lecturer and the Head of the Signal Processing Group in 2001. In 2003, I went back to QUT as the Principal Research Fellow in the School of Optometry, where I led the Signal and Image Processing Group within the Contact Lens and Visual Optics Laboratory. In March 2011, I joined the Institute of Biomedical Engineering), Wrocław University of Science and Technology (WUST). Here, I lead the Biomedical Signal Processing Group. In 2016 I finished the Executive Master Business Administration (E.M.B.A.) program of the Polish-American Business School at WUST. From February 2021 I am serving as an Associate Dean (finances) in the Faculty of Fundamental Problems of Technology.

My research interests include Biomedical Signal and Image Processing, Visual Optics, Optometry and Ophthalmic Instrumentation, Applied Statistics, Applied Mathematics, Detection and Estimation, and Bootstrap Techniques.