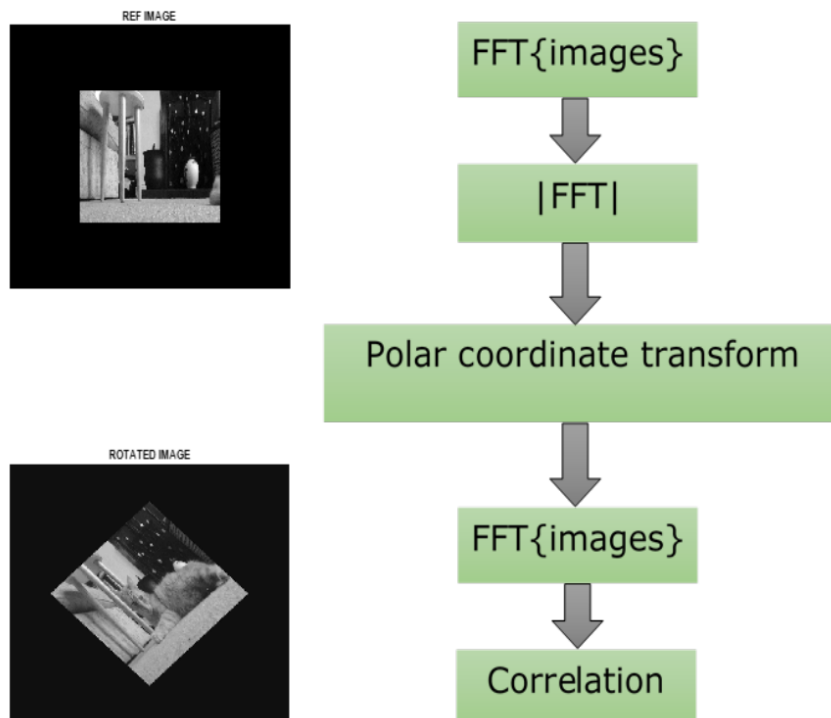


Optics and Photonics Group
Lunchtime Seminar
**“Visual recognition:
identifying objects in
linear subspaces”**

Nick Wells



12:00pm Thursday 1st June 2017
203 Tower Building
All Welcome

http://optics.nottingham.ac.uk/wiki/Talks_2017



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State of the art computer vision algorithms are based on convolutional neural networks and deep learning methodologies capable of assigning structural relationships between objects for the semantic description of scenes, “a cat on a bed next to a child”. However, for real scenes and objects, view invariance remains as the core issue for successful recognition. With application to background subtraction based on correlation analysis, this presentation discusses image registration using the Fourier-Mellin transform for resolving rigid body transformations, in particular rotational displacement.