
臺灣大學應用力學研究所
演 講 公 告

主 講 人：Dr. Wahbi El-Bouri
Tenure Track Fellow
University of Liverpool

講 題：Healthcare digital twins and in silico clinical trials

摘 要： 如附件

主 持 人： 張建成教授

時 間： 112年10月23日（星期一）下午2時20分開始

地 點： 臺灣大學應用力學研究所國際會議廳

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Healthcare digital twins and in silico clinical trials

Dr. Wahbi El-Bouri
Tenure Track Fellow
University of Liverpool

Dr Wahbi El-Bouri is a Research Fellow in digital twins and *in silico* clinical trials at the Liverpool Centre for Cardiovascular Science, University of Liverpool. Dr El-Bouri completed his MEng (Hons) in Engineering and his PhD in Biomedical Engineering at the University of Oxford.

He has a background in biomedical engineering, with a focus on mathematical and computational modelling of the vascular system. The aim of his research is to develop technology in tandem with industry that can be used to develop new medical interventions, as well as to personalise patient treatment. This encompasses linking clinical imaging to computational models, developing *in silico* clinical trials, and personalising medical treatment using patient-specific computational models.

In his talk, Dr El-Bouri will introduce the concept of digital twins in healthcare, he will demonstrate how computational models are being used in healthcare research, and he will also discuss the future of medical device and drug development within the in silico clinical trial paradigm.