

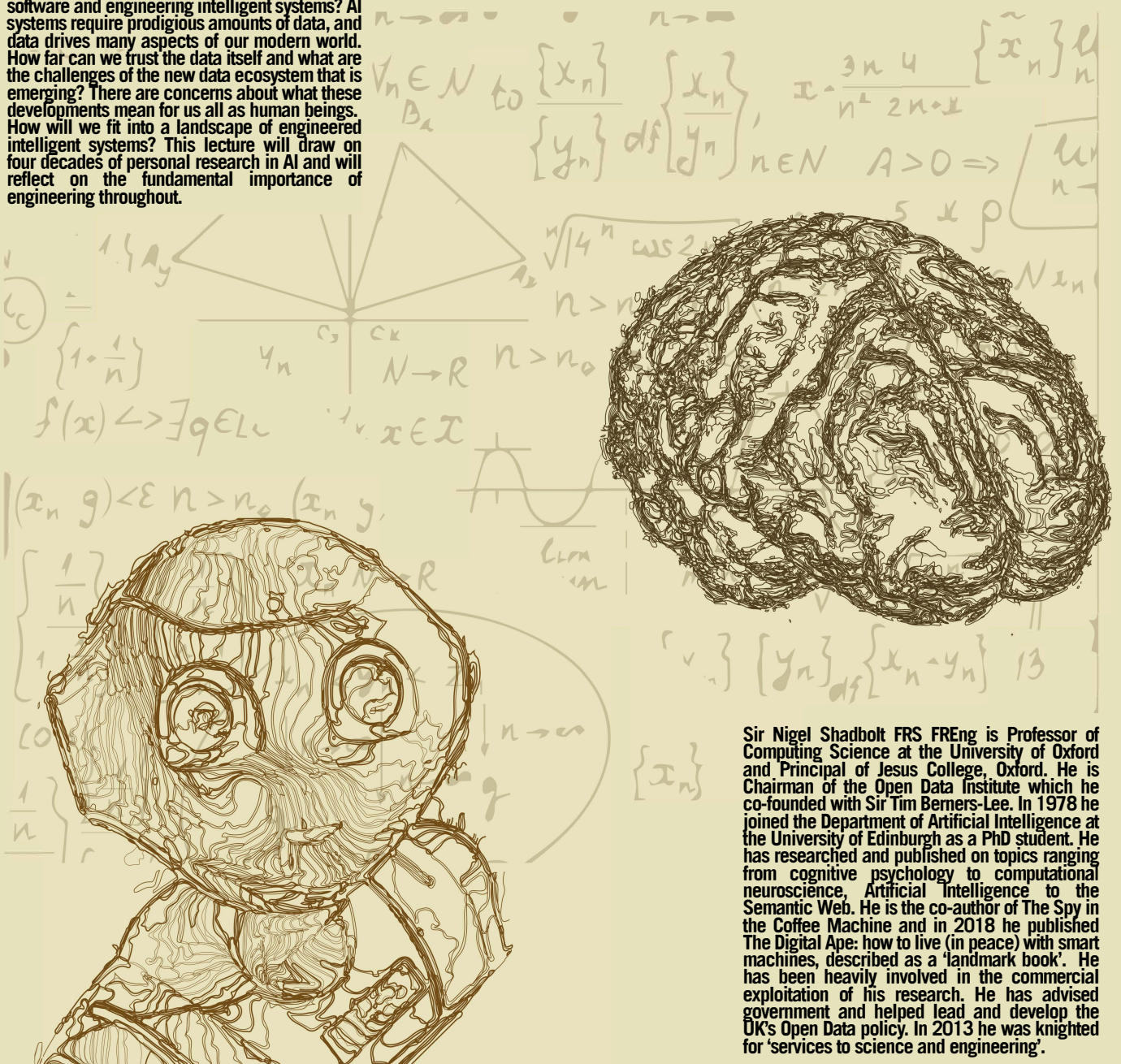
SPEAKER: SIR NIGEL SHADBOLT FRS FREng

**WEDNESDAY 13 MARCH 4.30 - 6.00PM
PH8 DEPARTMENT OF PHYSICS**



ENGINEERING INTELLIGENCE

We live in an age in which the power of computers and the data available to them increases exponentially. This has led to systems that demonstrate superhuman abilities. This, in turn, raises questions about the emergence of Artificial Intelligence (AI). What is the reality and what do we understand about making smart software and engineering intelligent systems? AI systems require prodigious amounts of data, and data drives many aspects of our modern world. How far can we trust the data itself and what are the challenges of the new data ecosystem that is emerging? There are concerns about what these developments mean for us all as human beings. How will we fit into a landscape of engineered intelligent systems? This lecture will draw on four decades of personal research in AI and will reflect on the fundamental importance of engineering throughout.



Sir Nigel Shadbolt FRS FREng is Professor of Computing Science at the University of Oxford and Principal of Jesus College, Oxford. He is Chairman of the Open Data Institute which he co-founded with Sir Tim Berners-Lee. In 1978 he joined the Department of Artificial Intelligence at the University of Edinburgh as a PhD student. He has researched and published on topics ranging from cognitive psychology to computational neuroscience, Artificial Intelligence to the Semantic Web. He is the co-author of *The Spy in the Coffee Machine* and in 2018 he published *The Digital Ape: how to live (in peace) with smart machines*, described as a 'landmark book'. He has been heavily involved in the commercial exploitation of his research. He has advised government and helped lead and develop the UK's Open Data policy. In 2013 he was knighted for 'services to science and engineering'.

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