

Title: What's wrong with computational intelligence in healthcare?

Speaker: Dr. Philip Scott, Professor of Digital Health & Care, University of Wales Trinity Saint David

Abstract:

This talk will explore the meaning of intelligence from the human, organisational and computational perspectives. The presentation will emphasise the criticality of knowledge as a concept distinct from data or information, and its importance in the paradigm of Learning Health Systems as a continuous cycle of quality improvement. We will analyse the spectrum of computable knowledge in healthcare, from traditional clinical decision support using evidence-based guidelines through to the currently proliferating AI models for specific use cases. This focus will turn our attention away from technology push to problem-based solutions where computable knowledge, whether expert-based or AI-powered, can genuinely contribute to transformational change.

The speaker will also touch on some broader ethical questions arising from AI developments, including misuse of original materials without consent, human de-skilling, misinformation, disinformation, and the pernicious effects of some social media platforms. This coverage will also discuss new forms of research waste in healthcare AI and its environmental, behavioural, and philosophical consequences.

Presentation of speaker:

Dr Philip Scott is Professor of Digital Health & Care at the University of Wales Trinity Saint David, Past Chair of the BCS Faculty of Health & Care, Deputy Editor of BMJ Health & Care Informatics and Vice-President of the International Medical Informatics Association Conference. Philip worked in the NHS in various IT development and management roles for fifteen years before moving into academia in 2009. He is a Fellow of the British Computer Society, Fellow of the Higher Education Academy, Fellow of Health Level Seven and board member of HL7 UK.