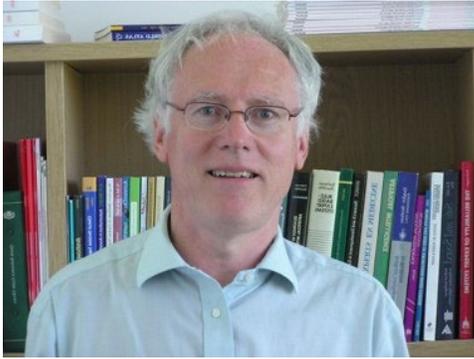




University
of Victoria

School of Health Information Science

Seminar Series



Prof Jeremy Wyatt Presents:
Is AI just about machine learning? Some insights from Knowledge-Based Systems
Wednesday, March 16th, 2022
10:00 am – 11:00 am Pacific
Online via [Zoom](#)

Abstract:

To many newcomers, the term “artificial intelligence” (AI) has become synonymous with one technique: machine learning. However, after the formative [Dartmouth Workshop](#) in 1956, AI became a very wide field with applications in natural language processing, machine translation, robotics, and decision support requiring many different techniques such as knowledge representation, reasoning about uncertainty and time, task scheduling, image processing, and text assembly. In medicine there is a long and productive history of the development and implementation of knowledge-based systems to provide different models of decision support. This seminar will review the range of AI applications in medicine before focussing on lessons we can learn from the development of knowledge-based systems for decision support in a range of clinical settings, exemplified by systems produced by Stanford pioneers [1], the author and one of the discipline’s founders John Fox [2], who died recently.

References

1. Buchanan BG, Shortliffe EH. Rule Based Expert Systems. Addison Wessley, 1985.
2. JC Wyatt. Recollections of John Fox: One of the Founders of Medical AI. Learning Health Systems 2022: DOI: 10.1002/lrh2.10308

Prof Jeremy Wyatt trained in medicine in Oxford and London and as a hospital physician there & Glasgow (MRCP 1983). He then discovered medical informatics and health technology assessment with doctoral training at the National Heart & Lung Institute and an MRC-funded postdoc at Stanford. He was the UK’s first elected Fellow of the American College of Medical Informatics in 1997, was ranked third in his discipline worldwide in 2009 and has given 40 invited overseas talks in the last decade, including the Amsterdam Spinoza lecture series.

Jeremy is Emeritus Professor of Digital Healthcare and former Director of Wessex Institute and Clinical Adviser on New Technologies to Royal College of Physicians. He currently leads the FCI’s Special Interest Group on AI. His research uses empirical methods to uncover scientific principles guiding the design of clinical information and eHealth systems, studying interactive tools to change the behaviour of clinicians (eg. decision support), patients (eg. apps, telehealth) and the public (eg. SMS msgs to promote healthy lifestyle), and of digital tools to support health research.

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