

School of Health Information Science Seminar Series:

Digital Technologies and Personalized Care Pathways



Speaker:

Silvana Quaglini

Professor of Medical Informatics at the University of Pavia, Italy

Nov 5 on Zoom

10:00am PT

Silvana Quaglini

Silvana Quaglini, MS degree in Electronic Engineering and PhD in Bioengineering. She is a full professor of Medical Informatics at the University of Pavia, Italy. Her research focuses on decision support systems, home monitoring and care, and economic evaluation models of healthcare interventions. The main medical areas covered by these applications include cancer, stroke, chronic diseases, and cognitive rehabilitation. The recent push towards personalized medicine has directed her latest studies toward shared decision-making and context-aware home monitoring. She has consistently conducted applied research, mainly within EU-funded projects, collaborating with local and international hospitals. She is a past-president of SIBIM (Italian Society of Biomedical Informatics, EFMI member), a member of the GNB (National Bioengineering Group), and the author of approximately 350 scientific publications, with an h-index of 47 (2025, Scopus).

Digital technologies and personalized care pathways

The personalization of care pathways is essential to improving health outcomes. However, it is often difficult to achieve due to limited healthcare resources, both in terms of time and personnel, and the inherent challenges in understanding patients' needs and preferences.

The seminar will provide insights into how digital technologies can support healthcare professionals in addressing this issue. It will explore personalization in two contexts: telemonitoring (including the management of adverse effects of drug treatments) and after-visit summaries, that is, the reports delivered to patients following a medical visit. Examples will be presented of how symbolic and generative artificial intelligence can be applied in these areas.

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