

Inaugural Lecture

PERSISTENCE AND CHANGE IN THE CULTURAL INFORMATION SPACE

Kristoffer Nielbo, the first Danish Professor of Humanities Computing

Humanities Computing is an applied or operational research field that uses mathematics and computational algorithms to solve research problems originating in the knowledge production of the humanities. Today it is often considered a sub-field of Digital Humanities although it predates DH and is likely to survive it.

This inaugural presentation is fundamentally Humanities Computing, it showcases a range of applications of information theory, random fractal theory and machine learning to unstructured textual data. All applications try to solve fundamental problems that originate in humanities research, but the solution to which is relevant to scientific inquiries in human information sharing and decision making. From dynamic author profiling in cultural heritage data, to social media trend estimation, literary quality assessment, and pandemic news monitoring. These studies offer valuable insights into the complex dynamics of cultural information that shape psychological and social systems.

The presentation also reflects a personal research journey from a time when artificial neural networks was mostly an engineering tool and information theory often frowned upon to a 2023, where AI has taken center-stage, Shannon's seminal work see new applications across the board, and both represent pillars in Center for Humanities Computing's research and development efforts.

Friday, June 2., 15-17 in the Nobel Auditorium (1482-105)

Signup for reception: events.au.dk/kristoffer-nielbo-inaugural-lecture-reception



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