香港城市大學
City University of Hong Kong

Sonification of Climate Data

Crossmodal correspondences, Perception and Design

PerMagnus Lindborg, PhD

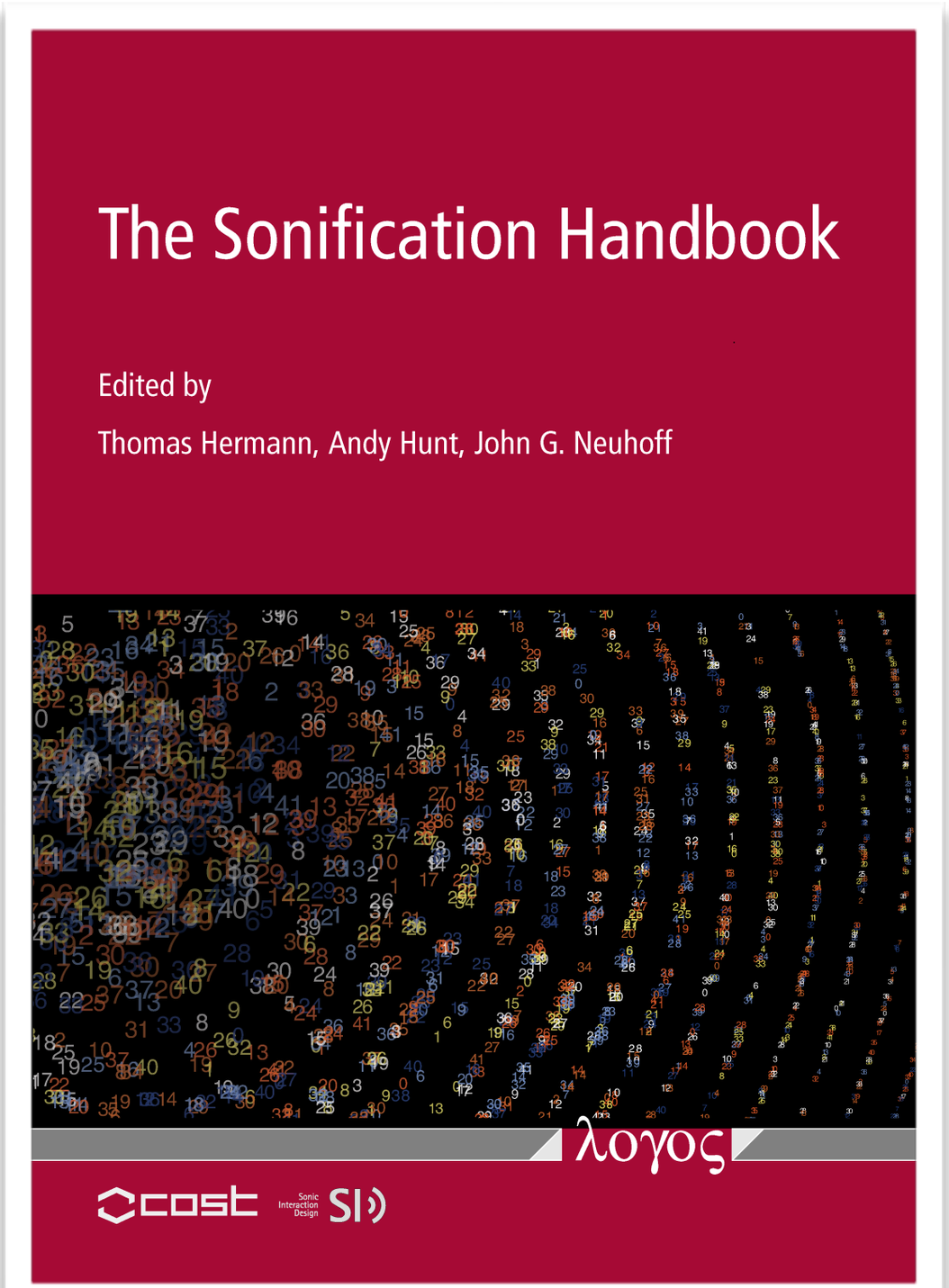
City University of Hong Kong, 9 September 2022

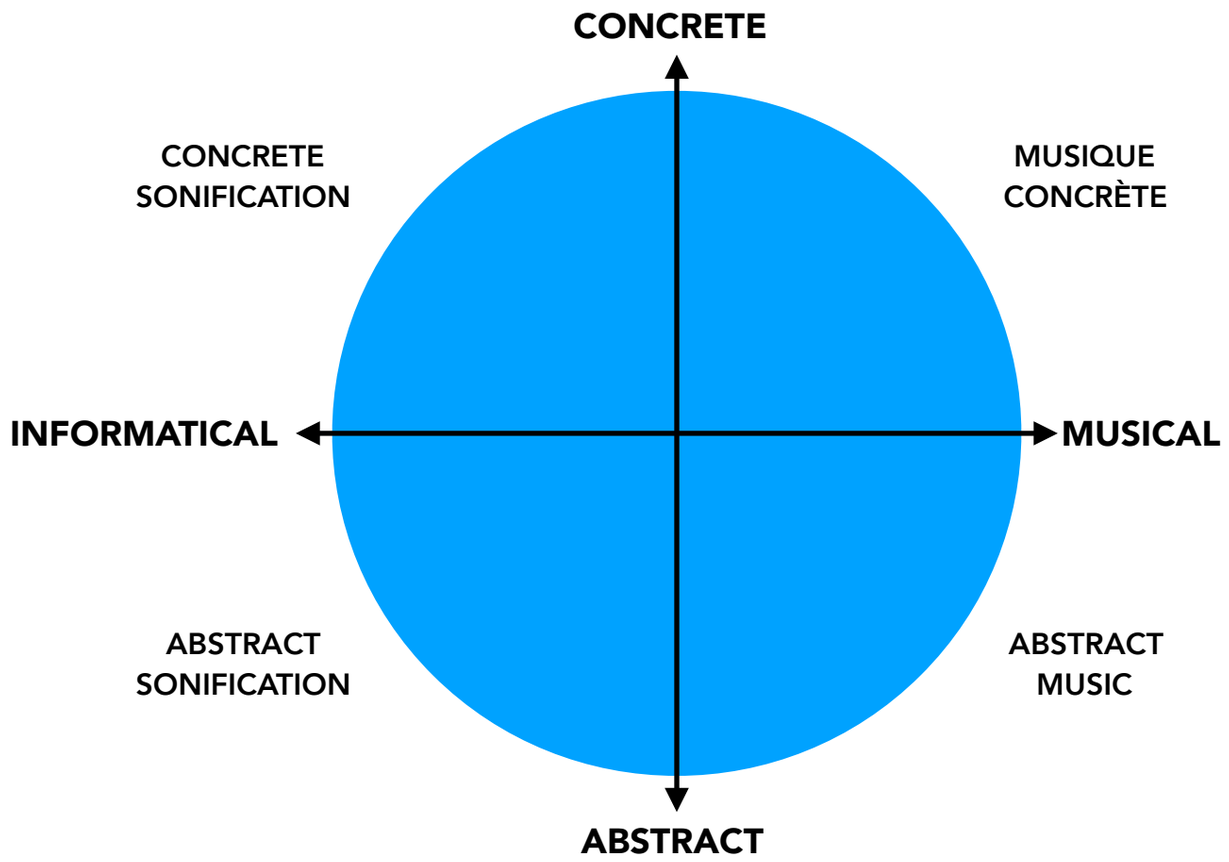


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sonification

Sonification makes data *audible*



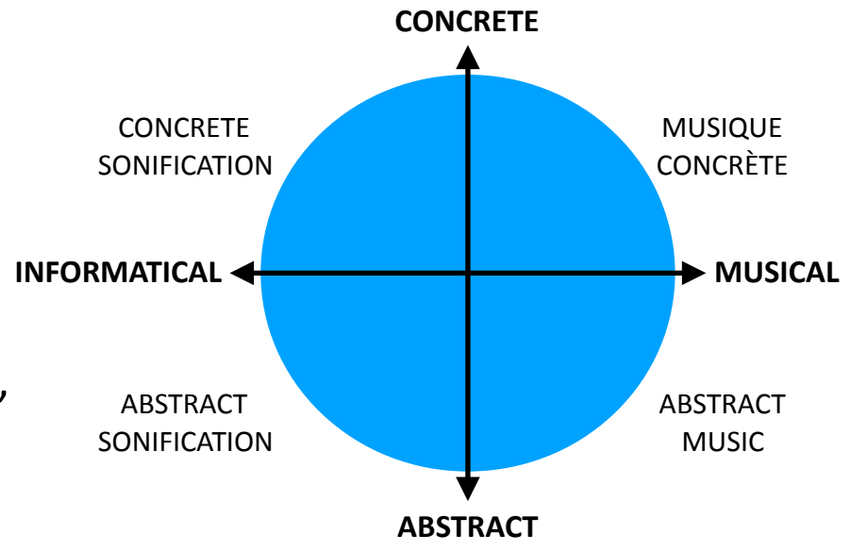


Aesthetic Perspective Space
(Vickers & Hogg 2006)

Sonification makes data *audible*

– a set of techniques and an aesthetic, navigating ars musica and ars informatica

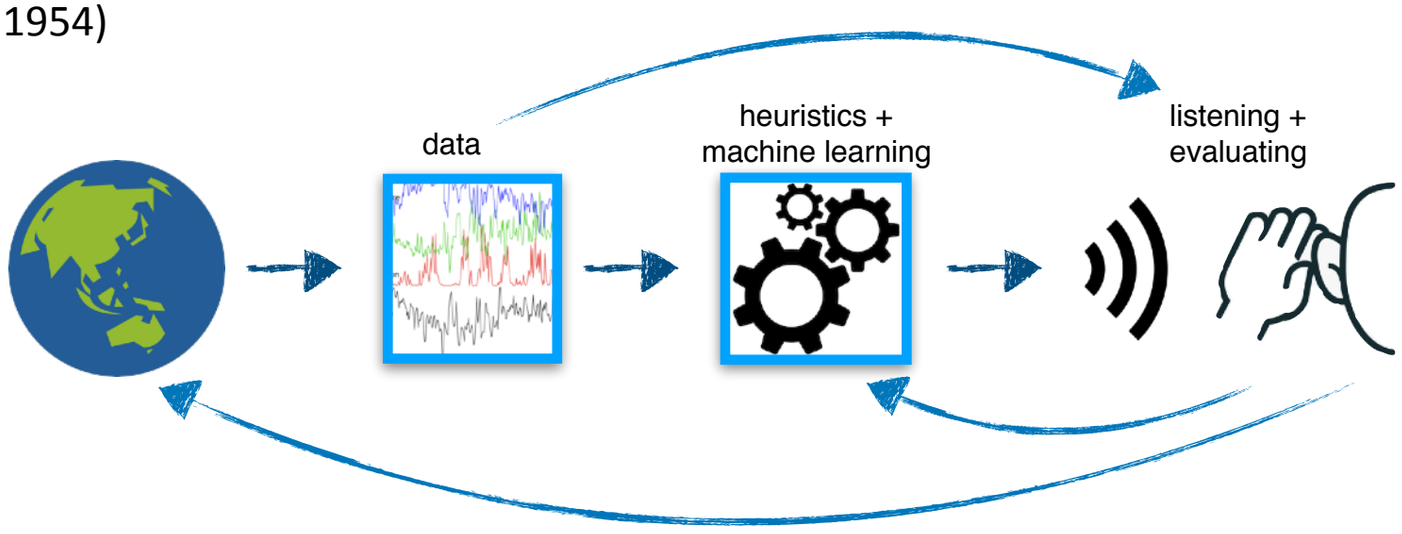
- scientific sonification is an exploratory method for pattern detection, trend identification, and systems monitoring (Hermann 2008)
- strong ecological principles for aesthetic sonification can be found in experiences of natural [non-designed] environments (Lindborg 2015)
- meanings of semantic listening are affordances of cultural behaviour (Tuuri & Eerola 2012)



Aesthetic Perspective Space (Vickers & Hogg 2006)

Sonification is a *design process*

"any technique that translates data into sound with a systematic, describable, and reproducible method, in order to reveal or facilitate communication, interpretation, or discovery of meaning that is latent in the data, having a practical, artistic, or scientific purpose." (Liew & Lindborg 2020; cf. Kramer 1994; Grinstein & Smith 1990; Pollack & Ficks 1954)



Sonification makes data *audible*

