Technology, AI and the Future of Obesity

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Disclosure

Past member of the Scientific Advisory Board of WW International (ended December, 2022)

The Stanford Screenomics Lab (TN Robinson, Co-PI) received an unrestricted gift from Google in 2019

Implications for Research & Innovation

Less Theory

- Balance between deduction (top down) and induction (bottom up)

- Increased complexity, interdependence

Idiosyncracy

- N=1, within-person analysis

- Move from generalizability to transferability

- Brief consequential experiences (needles in a haystack)

Ethical Principles & Legislation/Regulation

Transparency & Data Privacy

- How data are collected, used and shaped; users informed and give explicit consent; strict limitations on how data can be used.

Equity

- Technological innovations increase SES disparities.

- Active policies to ensure equitable access and unbiased AI

Ethical AI Standards

- Transparent algorithm development and audits to ensure AI models are equitable, unbiased, and incorporate human values

Accountability

- Liability for violating ethical standards or contributing harm, including externalities.