## Cultural Cognition

Recap of woc: Signal averaging tends to Cancel out uncorrelated errors.

\* Weighted average \* Debate can help recalibrate reliability markers.

Dark Side: Group-think, information Coscades, echo-chambers, filterbubbles.

Diversity can help overcome these issues. Too much diversity makes it hard to establish reliability markers.

Biases can be good and be revised once they've been made explicit.

Cultural transmission and Social learning. Et inter-disciplinant felt. We can observe social learning in most animal species. Social learning (SL) def.: Learning that is facilitated by observational interaction with another individual. A-Social Learning: Trial and error. Culture: Cross-generational transmission of information. Se Slibe 10!
- Cummulative culture
- Culture CC premestie -Tradition Todys
-Social fransmission ST

Cumulative cultural evolution: Cultural ratchet effect. Behov for: Behov for:
- Accurate copying - Innovation Maintain knowledge through Social transmission (ST) and innovation St vs. a-St Roger's paradox: In a changing environment, both Social learners and a-social learnes did equally well. with too many social learners, no-one will do trial and error learning and the infermation goes Stale and out dated. = No selection for SL. Weird.

a-SL= individual learning Stort set alle mennesher benytter både sociale og a-sociale lævings strategier. Social loving er på mange måder bedre. Det viser forshningen. I mange forshellige Kontebster. Det er meget svert at forsbe i CCE fordi man ibbe han Observere flere generationer: laboratoriet. Derfor han computer-Simulationer vore rightig gode. Problemer: - I hhre hommunihation mellem agenter - Ligner måshe ihre real-life - Se Slide 20 + 21! - I virheligheden han vi ihre altid vide, hvem der er bedst at hapiere.

Kort recap fra tidligere KG: Slide 22 ff. -Interactive situationer er ofte anderledes en hos individer -2 HBT 1, feedback ent. ille nødvendigt. - Ferdbach accelerere processen i 2HBT 1, men ibbe nødvendigt. -Bidirectional communication > olignment and mutual adaptation

The effect of feedback may be

culturally affected.

St foregen overalt. Man hom -SL Mechanisms (SLMs) -SL Strategies (SLSs) SLMs: e.g imitation, Omhandler lovings Situationer SLSs: Hvornår man bør bruge SL Fidelity" in SL betegner, hvor effektiv SL er. = Hvor meget information, der overføres fra ét individ fil et andet. CCE is dependent on high-fidelity (HF) SLMs. Se Slide for en liste over SLMs og hvor de bruges. De vigtigste Emulation" "Imitation" og "Teaching" (Low-fidelity) HF

SLMs & Types of interactions. Imitations - Simple: Kopi af adford. - Complex: eg. Over-imitation = hopi at handlinger der ihne er relevante for målet. Emulation Man ser resultatet af en proces Ehs. Ser man oblershræller og en hniv og lærer at shrælle sine obler. leaching Alle situationer, hvor loving faciliteres = adjoint med intention on at love andre noget.

-Slide 30. - Meget aben definition

-Offe vha. "Verbal communication"

- Svort at definere!

Sh def: Loring der er faciliteret of observation of, eller interabtion med et andet individ. ST > traditions > culture > CCE Hvornår/hven imiterer vi?

Dean et al. paper: Puzzlebox, monheys, Children. What is the paper trying to investigate?
- Huad er nødvendigt for CCE How? Method?

The cumulative culture puzzlebox Why should we care? CCE requires teaching.
(direct instructions) Se de Sidste Slides. 51;de 34 ff.

Kritih:
-Viser i whe hausalitet, men hun
Korrelation.
- Puzzleboxen er anthropocentrish.
- Puzzleboxen er anthropocentrish. - Seguential, not cumulative
l l

