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Laboratory for Artificial Intelligence in Design







Artificial and Distributed Intelligence for a better Lifestyle

Prof. Johnny Golding, Director proto-Centre for Radical Matter: Art. Philosophy. Wild Science.

Royal College of Art, London, UK

AiDLab Innovation in Design Summit 19 April 2023

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人工智能設計研究所

Key task: Preparing for a disruptive future by adopting AI and advanced technologies

- Emphasising: the relation between and amongst Human-Machine-Interspecies co-evolution
- Impact of the 4th / 5th Industrial Revolution within culture, imagination, and creative industry.







The Essentials: method as model

\rightarrow <u>emphasis: 'radical matter'</u>

- based on emergence <=> entanglement / encounter
- the logics of sense: a different 'reward' system

\rightarrow AI re-configured: as 'distributed intelligence'

- collective self-assemblage as a 'single agent'
- importance of 'noise', 'dither', 'flaking', 'asemic' poetics

\rightarrow impact – from pedagogy to co-evolutionary ethics

- research & development
- commercialisation

ESSENTIAL NO. 1: UNDERSTANDING RADICAL MATTER AS A FUNCTION OF 'EMERGENCE'

Proliferation of Data requires a knowledge system that can adapt to the wild exponential explosion of data.

- This means, in part: getting beyond 'indexing' and 'exclusion' in LLM
- <u>It means, also</u>: to focus on 'unknowing', 'undecidability' (Gödel's metamathematics) and fractals (sliced repetitions via scale – Mandelbrot)
- <u>It means finally</u>: foregrounding 'topological surface structures'

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A familiar equation

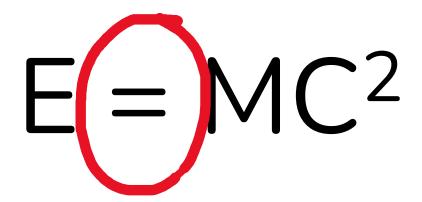
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$E = MC^2$

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ESSENTIAL NO. 1: THE TOPOLOGICAL SURFACE IS THE = SIGN



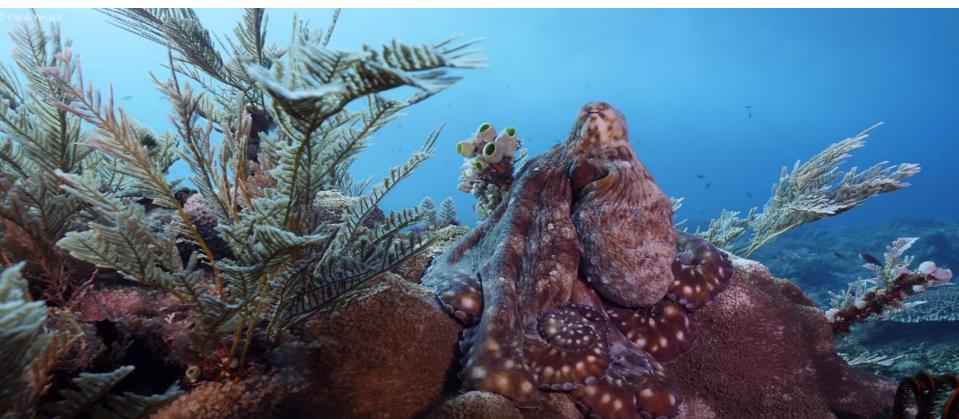


TANK – LIGHT / WAVES PATTERN REPETITIONS





THE COMMON OCTOPUS -REPETITION/ PATTERN /CAMOUFLAGE

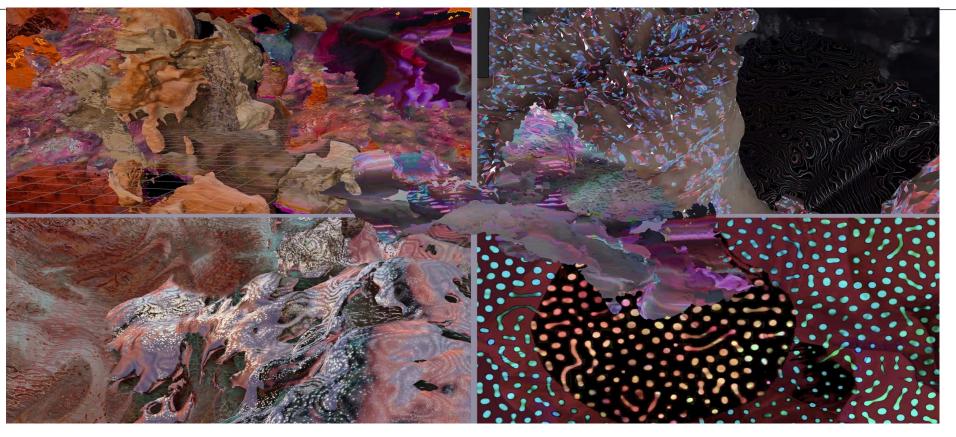


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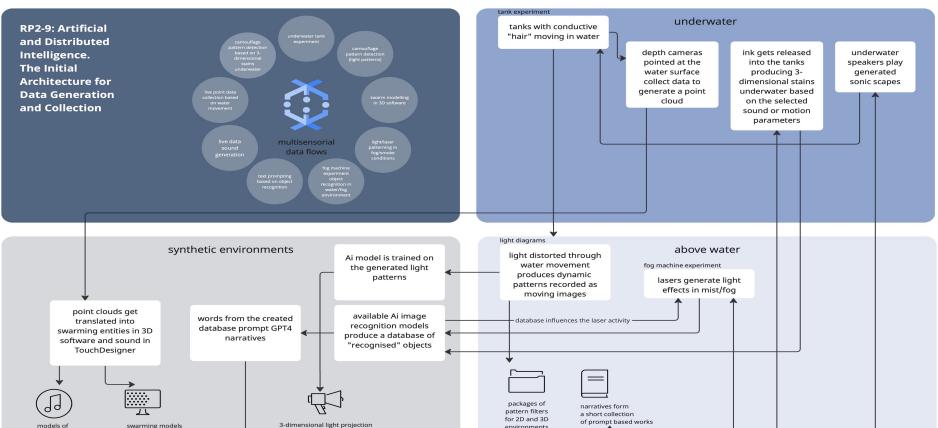




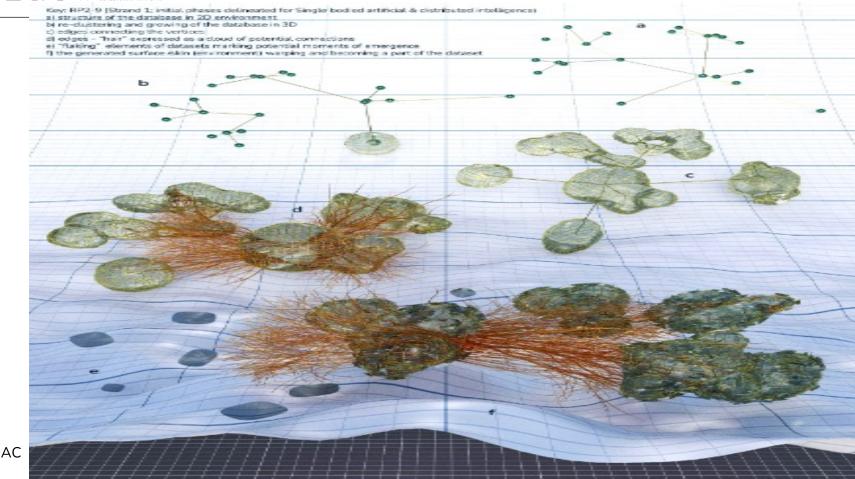


COMMON OCTOPUS / CAMOUFLAGE IMAGE CREDIT: 0RPHAN DRIFT & MAGGIE ROBERTS

ESSENTIAL NO. 2: OUR EMERGENT-COMPLEX ADAPTIVE SYSTEM



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CREDIT: SONIA BERNAC

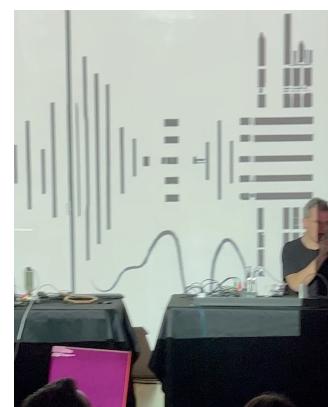




SONIC COLLECTIVE INTELLIGENCE NARRATIVES. JOHN WILD



MATT LEWIS





ESSENTIALS: NO. 3. COMMERCIALISATION

- Web platforms: offering an educational resource with access to cutting edge / critical insight and a showcase for our work within the AI sector.
- Consultancy: working with the AI industry to develop new social imaginaries that concentrate on the new topologies of the 5th Industrial Revolution.
- Critical product insight and analysis for the AI sector, from story telling to gaming to new forms of moving image production, offering critical perspectives on new AI systems before deployment.



THANK YOU.