

Supplement to

“The case that mammalian intelligence is based on sub-molecular memory coding and fibre-optic capabilities of myelinated nerve axons”

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This supplement offers:

- (1) A re-listing of the REFERENCES into *Author-then-Date* sequence, instead of the *Order-of-Appearance* used in the official version.
- (2) Initially just an English-language duplication of the ABSTRACT; but then (from time to time) translations of this abstract into other languages, when convenient and feasible.

Thus, starting with English:

The case that mammalian intelligence is based on sub-molecular memory coding and fibre-optic capabilities of myelinated nerve axons

Abstract

Knowledge-growth in science apparently requires a proper balance between two activities: • experimentation and • the search for wide-ranging self-consistency. (The latter seems to have been neglected and the present project aims to correct this imbalance). The case that the brain itself normally uses the same two criteria is reviewed and accounts of possible mechanisms underlying such activity are outlined. For this it is postulated that there is major quantum/digital information processing at the molecular level and some signal transmission at infrared frequencies (multiplexing with traditional millisecond “spikes” along nerve fibres). It is also shown that such an approach can account for some hitherto unexplained features of mental activity, including retrieval, “storage”, teleology, sequencing, control and decentralization within the brain.

Then continuing with: French, Indonesian, and German:

Le cas que l'intelligence chez les mammifères est basé sur la codage de la mémoire sous-moléculaire, et sur capacités en fibre optique des axones myélinisés.

Résumé.

Dans la science, la croissance de la connaissance requiert apparemment un bon équilibre entre deux activités: • l'expérimentation et • la chasse d'une auto-cohérence étendue. (Ce dernier semble avoir été négligé, et le présent projet vise à corriger ce déséquilibre). De même, il y a un examen de l'argument selon lequel le cerveau lui-même utilise normalement les deux mêmes critères, et aussi un aperçu des mécanismes possibles sous-jacents de ces activités. Cet postule qu'une grande partie des traitements quantiques/digitaux de l'information doit se produire à l'échelle moléculaire, et qu'il y aura certains signalisation transmises à des fréquences infrarouge (multiplexées avec les milliseconde "spike" signaux le long des fibres nerveuses). Il est également montré que cette approche peut rendre compte de certaines caractéristiques jusque-là inexplicée de l'activité mentale; y compris: « l'entreposage », le rétablissement, la téléologie, de séquençage, de contrôle, et de la décentralisation dans le cerveau.

Argumen bahwa kecerdasan mamalia didasarkan pada sub-molekuler pengkodean memori dan pada serat optik kemampuan akson saraf myelinated.

Abstrak.

Pengetahuan-pertumbuhan dalam ilmu membutuhkan keseimbangan yang tepat antara dua kegiatan: • eksperimentasi dan • pencarian untuk konsistensi diri yang luas. (Yang terakhir ini tampaknya telah diabaikan dan proyek ini bertujuan untuk memperbaiki ketidakseimbangan itu).

Saya meninjau argumen bahwa otak itu sendiri biasanya menggunakan dua kriteria yang sama, dan juga menyarankan kemungkinan mekanisme yang mendasari kegiatan tersebut. Ini termasuk postulat: (i) bahwa ada banyak pengolahan kuantum / digital informasi pada tingkat molekuler, dan (ii) bahwa harus ada beberapa transmisi sinyal pada frekuensi inframerah — sinyal yang bisa multipleks dengan tradisional "milidetik tegangan-paku" (dan kedua jenis akan mampu melakukan perjalanan sepanjang serabut saraf).

Hal ini juga menjadi jelas bahwa pendekatan seperti itu dapat menjelaskan beberapa fitur misterius lain dari aktivitas mental, termasuk bagaimana memori "disimpan dan diambil"; juga teleologi, sekuensing, kontrol dan desentralisasi dalam otak.

Der Fall, dass Säugetier-Intelligenz ist basierend auf sub-molekularen Speicher-Codierung und LWL-Fähigkeiten von myelinisierten Nervenaxone

Abstrakt

Knowledge-Wachstum in der Wissenschaft erfordert offenbar ein angemessenes Gleichgewicht zwischen zwei Aktivitäten: • Experimentieren und • Eine Jagd nach weit reichende Selbst-Konsistenz. (Die Letztere scheint vernachlässigt worden zu sein und das vorliegende Projekt zielt darauf ab, dieses Ungleichgewicht zu beheben). Der Fall, dass das Gehirn sich in der Regel verwendet die gleichen zwei Kriterien wird bewertet und Konten von möglichen Mechanismen, die solche Aktivitäten werden skizziert. Dafür wird postuliert, dass es große Quanten / digitalen Informationsverarbeitung auf molekularer Ebene und einige Signalübertragung bei Infrarot-Frequenzen (Multiplexen mit traditionellen Millisekunde "Spikes" entlang der Nervenfasern). Es wird auch gezeigt, dass ein solcher Ansatz kann für einige bisher unerklärten Eigenschaften geistiger Aktivität, einschließlich Retrieval, "Lagerung", Teleologie, Sequenzierung, Kontrolle und Dezentralisierung innerhalb des Gehirns ausmachen.

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Note that recent (2009) additions to this list have their reference-numbers in **bold turquoise**.

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