

Conceptor: A Model of Emergence of Basic Speech Structures as a Part of Consciousness Development

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Abstract. An information processing machine called conceptor designed as a technical device for information processing that utilizes neither numbers nor arithmetic, as opposed to computers, is found to possess presented here features that may be appropriate for modelling elements of consciousness. Such model also indicates that information structures emerging in the memory being the consciousness hardware in the model are similar to basic speech structures. It may suggest a mechanism for pre-pairing syntactic properties with their semantic correlates required in speech acquisition [17]. If pre-paired consciousness records are utilized during speech acquisition, then speech must not emerge prior to consciousness.

Key words: consciousness, speech, brain structure, language