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to develop mathematical models of brain function and use them in simulations; cognitive phenomena relate to brain activity; current AI algorithms are based on neuroscience findings; a range of experimental approaches are used to measure and analyse brain function; There will be particular focus on how: memories are stored and organised in the brain
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neuroscience which employs mathematical models, theoretical analysis and abstractions of the brain to understand the principles that govern the development, structure, physiology and cognitive abilities of the nervous system. In theory, computational neuroscience would be a sub-field of theoretical neuroscience which employs computational simulations to validate and solve the mathemati

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Cognitive science has developed computational models that decompose cognition into functional components. Computational neuroscience has modeled how interacting neurons can implement elementary components of cognition. It is time to assemble the pieces of the puzzle of brain computation and to better integrate these separate disciplines.

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