

Download Understanding How Intelligence Can Emerge From A Network Of Neurons

To better understand the whole, we will start by discussing the individual units that make it up. A neural network can mean either a “real” biological neural network such as the one in your brain, or an artificial neural network simulated in a computer. Accumulating evidence from network neuroscience indicates that g depends on the dynamic reorganization of brain networks, modifying their topology and community structure in the service of system-wide flexibility and adaptation.. Whereas crystallized intelligence engages easy-to-reach network states that access prior knowledge and experience, fluid intelligence recruits difficult-to-reach ...Main Text. In recent years, rapid progress has been made in the related fields of neuroscience and artificial intelligence (AI). At the dawn of the computer age, work on AI was inextricably intertwined with neuroscience and psychology, and many of the early pioneers straddled both fields, with collaborations between these disciplines proving highly productive (Churchland and Sejnowski, 1988 ...Data (Star Trek), Rachael (Blade Runner), and David (Prometheus), these examples of artificial general intelligences will soon become a part of our everyday reality, but how will the world’s societies live among them?