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understanding brain function requires monitoring and interpreting the activity of large networks of neurons during . behavior. Advances in recording technology are greatly increasing the size and complexity of neural data. Analyzing such data will pose a fundamental bottleneck for neuroscience.

mapping brain activity at scale with cluster computing

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(PDF) Mapping brain activity at scale with cluster computing

An obvious application of the brain map is in surgery, that is, mapping an individual's brain areas to help surgeons avoid important brain areas when operating, says Glasser. By comparing patterns between healthy and diseased brains, researchers may even find better ways to diagnose brain disorders.

Scientists Complete the Most Detailed Map of the Brain Ever

Brain activity maps, like the broader "omics" and systems biology paradigms, will need (1) combinatorics, (2) the state dependence of interactions between neurons, and (3) neuronal biophysics, which are extremely varied, adapted, and complex.

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