## 1163-68-708Bill Kay\*, 1 Bethel Valley Rd, Oak Ridge, TN 37830, and Pasanna Date, Catherine<br/>Schuman and Jade O'Connor. Graph Algorithms in Neuromorphic Computing.

Neuromorphic computing architectures are spike based processors that differ from traditional (i.e., GPU, CPU) compute nodes. In particular, they are build on top of a (weighted, directed) graph and function very much like brains. Their unique architecture makes them well suited for a number of tasks, including implementation of graph algorithms in a low energy, highly parallel way. In this talk, I will provide a primer on neuromorphic computing, and explain how one implements several graph algorithms on neuromorphic machines. No background on neuromorphic computing (or programming in general) is required.

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