TOWARDS BUILDING A NEUROMORPHIC COMPUTER: A RECONFIGURABLE HARDWARE CONTINUOUS TIME RECURRENT NEURAL NETWORK BY SANJAY KUMAR BODDHU

Sanjay Kumar Boddhu

Towards Building a Neuromorphic Computer

A Reconfigurable Hardware Continuous Time Recurrent Neural Network

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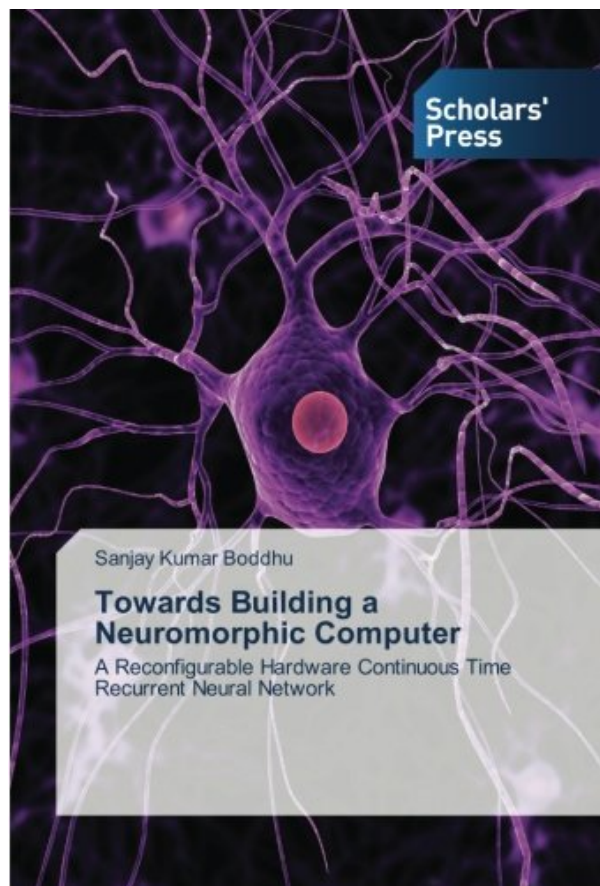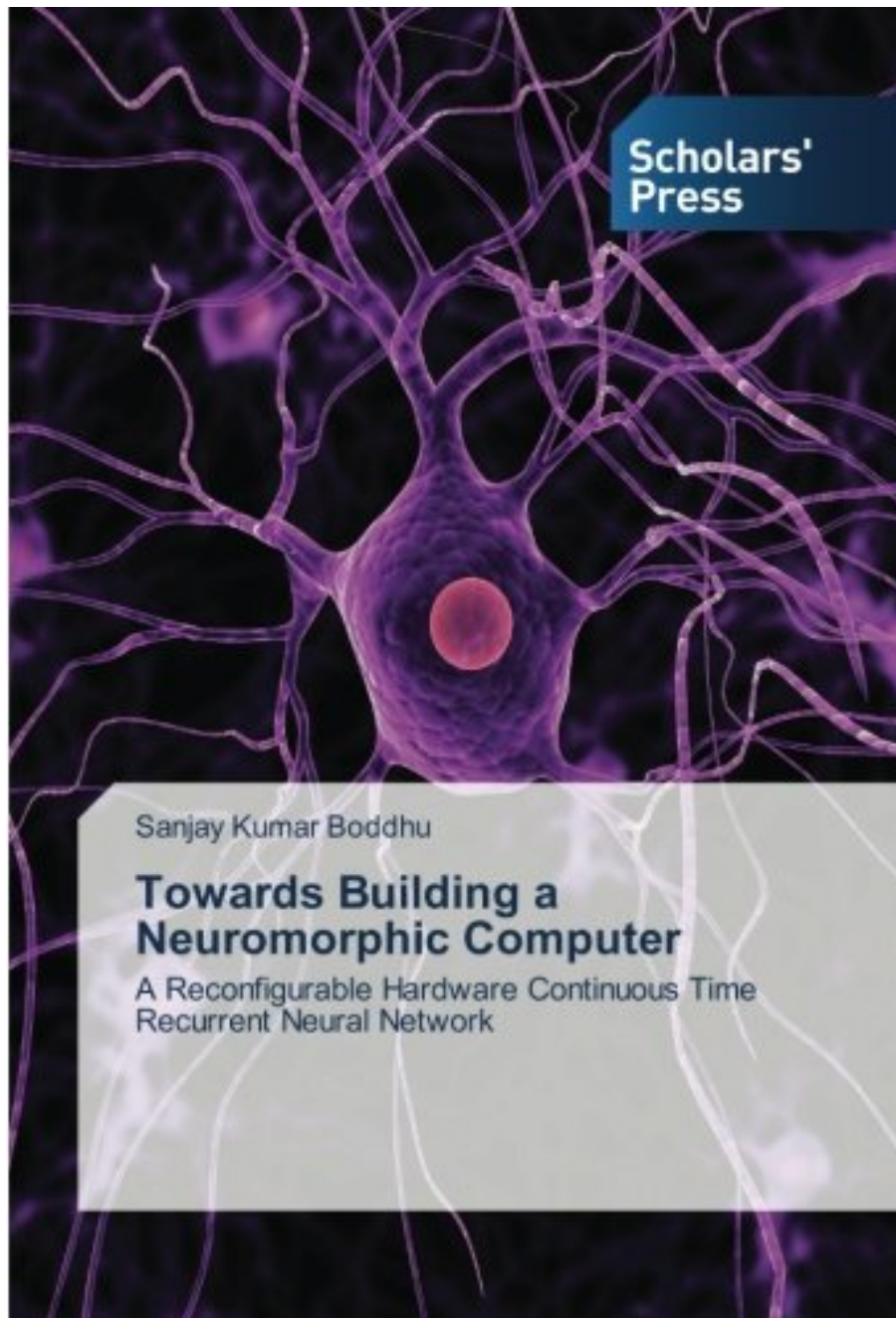
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Dr.Sanjay Kumar Boddhu, works as a researcher at Qbase LLC. He performs research and development activities in areas of Computational Intelligence, Natural Language Processing, Neuromophic Engineering and Machine Learning. He is also an invited advising researcher at Wright Brother's Institute's ICC and Wright State University's eClipse facility.

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In this work, a complete description of the design for implementing a neuromorphic computer has been provided with details of the components and concepts used to make it feasible in hardware. The final hardware implemented, is tested with well-defined and well-analyzed configurations and the hardware behaves in concurrence with its simulated counterparts and in accordance with the differential equation guiding the underlying Neuromorhic logic (I.E. of a Continuous Time Recurrent Network (CTRNN)).The neurons and supporting devices are all constructed from commonly available off-the-shelf components and the implementation has been tested to insure a high degree of fidelity between behavior predicted by CTRNN state equations and the correspondingly programmed computer. In addition, it is demonstrated that the constructed device is easy to use and can be employed in a wide variety of research efforts without the need to develop sophisticated electrical engineering knowledge.

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