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**Lecture Notes in Electrical Engineering** • Volume 855, Pages 371 - 383 • 2022 • 4th International Conference on Recent Innovations in Computing, ICRIC 2021 • Jammu • 8 May 2021 through 9 May 2021 • Code 274749

**Document type**

Conference Paper

**Source type**

Book Series

**ISSN**

18761100

**ISBN**

978-981168891-1

**DOI**

10.1007/978-981-16-8892-8\_28

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# Neuromorphic Computing: Review of Architecture, Issues, Applications and Research Opportunities

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**Abstract**

In this new enhancing world of computer, it is required to have a high-speed computer at cheap cost and small size. As the AI, ML and Big Data is enhancing the need of faster computer it becomes a necessity. One of the solutions for faster computers is Neuromorphic computers. This is the special kind of computer which are inspired by the biological concept of the human brain. It works like the human brain works. The human brain has the capacity of doing 1 exaFlop calculation per second, which is far better than the capacity of supercomputers. Taking inspiration from the human brain now Intel and IBM is trying to make a computer that can function like the human brain. This device known as the neuromorphic computer will start the new era of computers and AI. This paper discusses the comparison of Neuromorphic computing with Von Neumann computing, algorithms used for neuromorphic computing, concepts of neuromorphic computing, building blocks, application, and

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