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Advances In Neuromorphic Memristor Science

The possibility of gathering prominent scientists in the heart of the Silicon Valley given by the 2011 International Joint Conference on Neural Networks held in San Jose, CA, has offered us the unique opportunity of organizing a series of special events on the present status and future perspectives in neuromorphic memristor science.

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Advances in Neuromorphic Memristor Science and Applications. Editors (view affiliations) Robert Kozma; ... providing a state-of-the-art overview of neuromorphic memristor theory, ... this edited volume is the first to cover memristors in the depth needed to trigger the further advances that surely lie around the corner.

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The basic mechanism of the typical memristor devices for neuromorphic computing system. ... Your feedback will go directly to Science X editors. ... electronics and technology advances.

Neuromorphic computing with memristors

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Several non-idealities such as cycle-to-cycle (temporal) and device-to-device (spatial) variabilities negatively affect the performances of memristor-based neuromorphic architectures. 64 64. J. J. Yang, D. B. Strukov, and D. R. Stewart, " Memristive devices for computing," Nat. Nanotechnol. 8, 13 (2013).

Opto-electronic memristors: Prospects and challenges in ...

The memristor, a composite word of memory and resistor, has become one of the most important electronic components for brain-inspired neuromorphic computing in recent years. This device has the ability to control resistance with multiple states by memorizing the history of previous electrical inputs, enabling it to mimic a biological synapse in the neural network of the human brain.

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Advances in Neuromorphic Memristor Science and Applications Greg Snider (auth.) , Robert Kozma , Robinson E. Pino , Giovanni E. Paziienza (eds.) Physical implementation of the memristor at industrial scale sparked the interest from various disciplines, ranging from physics, nanotechnology, electrical engineering, neuroscience, to intelligent robotics.

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