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Berkeley more than 40 years ago, memristors, a nonlinear element in electrical circuitry, are set to revolutionize computing technology. Finally discovered by scientists at Hewlett-Packard in 2008, memristors generate huge interest because they can facilitate nanoscale, real-time computer learning, as well as due to their potential of serving as instant memories. .

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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).

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