Special Issue

Miniaturized Memory Devices

Message from the Guest Editors

Nowadays, electronic memory elements are an essential component of all electronic devices, from computers to toys and from heath monitors to space technology. Furthermore, the solid-state implementations of these devices show great potential in such applications as artificial synapses, neuromorphic computing, and reconfigurable architectures. Numerous candidates for emerging electronic memory technologies, such as ferroelectric (FeRAM), phase change random access memory (PCRAM), magnetoresistive (MRAM), resistive random access memory (ReRAM), macromolecular, and Mott memory devices, as well as organic memory, etc., have been reported. On the other side, the miniaturization concept was proposed, for first time, by Richard Feynman in his lecture “Plenty of Room at the Bottom”. His theoretical concept has materialized in the electronic devices sector with miniaturization being one of the current trends in electronics.

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