
Sparse tensor ordering

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Abstract

Sparse tensors are commonly stored in mode oblivious formats, such as COO and HiCOO. We propose ordering methods for sparse tensors so that operations on their COO and HiCOO representation have improved cache use and hence better performance. This is joint work with Jiajia Li, Jimeng Sun, Kevin Barker, Rich Vuduc and Umit Catalyurek.

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